

agronomy gleanings

January 11

1988

Department of Agronomy and Plant Genetics

THANK YOU NOTES

Agronomy Department:

Thank you so much for the beautiful Poinsettia you sent while I was in the hospital. I really appreciated it. I am getting along pretty good. I am taking it easy and letting things heal. Thank you again!

Linda Sorenson

Dear friends in the Department:

Thank you so much for the flowers you sent at the birth of our daughter, Maren, and then for my father's funeral. We much appreciated your thoughtfulness. Maren came three weeks early, and Dad was able to see her before his sudden heart attack. We had much to be thankful for during

that week, along with the sadness. It helped to have friends thinking of us.

Sincerely,

Randy, Lynn and Maren Ellingboe

Thank you all for the flowers and cards while I was in the hospital and then at home recovering. Charles Burnham

MISSING FROM THE LIBRARY

"Forage management in the North", by Dale Smith. Please return it to Pat Kessler in 302 Agronomy if you have it. Thank you.

GREETINGS

Dr. Herbert Johnson sent greetings for Christmas and the New Year to everyone in the Department. He said, "It was not as easy to get the Christmas spirit picking citrus fruit in the back yard as it was when shoveling snow from the front drive."

FACULTY MEETING WITH HORTICULTURE

A joint faculty meeting between Agronomy and Horticulture with Dean C. Eugene Allen is scheduled for January 26 from 3:00-4:30 p.m. in 306 Borlaug Hall. Also, Dr. Paul T. Magee, Dean of the College of Biological Sciences (CBS), has agreed to attend. He will address the proposal to disband the Botany Department and move current faculty into other CBS departments, plus future plant science education and research efforts within CBS.

CONGRATULATIONS

Congratulations to Robert N. Andersen who was recently promoted to GM-15 by USDA-ARS in recognition of the substantial impact that his creative weed science research has had nationally and internationally.

MISSING ORDER

An order from Miller-Davis, delivered on December 14, 1987, is missing. If you picked up the order by mistake please return it to Marilyn Hole in 408 BH. The order contained 1 hand counter, 2 packages of plotter pens and 1 weekly appointment book. Thanks

UNDERGRADUATE BANQUET

Mark your calendar! The Undergraduate Recognition Banquet is scheduled for March 8, 1988, starting at 5:30 p.m. in the Earle Brown Center.

SOYBEAN UTILIZATION SYMPOSIUM

The Center for Alternative Crops and Products is sponsoring a symposium on Soybean Utilization Alternatives which will be held in Bloomington, MN, February 16-18, 1988. Contact Cathie Bergum for registration information at 625-2722. There is a reduced rate for University faculty and students (\$80).

SCIENCE MUSEUM AND OMNI THEATRE TOUR

The Plant Industry Club will tour the Minnesota Science Museum and Omni Theatre in downtown St. Paul on Tuesday, January 12 leaving at 5:30 p.m. Sign up with Pat Kessler in 302 Agronomy or in the PIC office on the first floor of Agronomy.

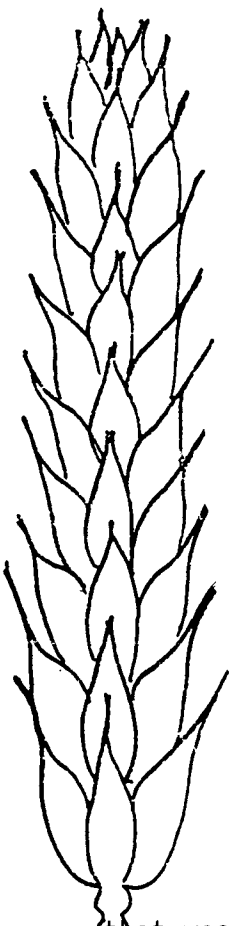
CROPS AND SOILS PLANNING CONFERENCE

The Crops and Soils Planning Conference is scheduled for January 19-20, 1988.

MINIMUM DRIVING AGE

Please note:

The minimum age of all drivers of University vehicles is 19 years. This includes full-time employees. If you have students or civil service employees on your project who are under 19 it is against University regulations for them to drive University vehicles. This age limit was agreed upon by the University and insurance representatives.



FRENCH

The Office of International Ag. Programs is pleased to announce a special winter quarter offering of beginning French I at a reduced price of \$50.00 for faculty, staff, grad students and their spouses. This course will be specially designed for those with no previous experience in French and for those who might like to begin a review at the most basic level. The course begins Monday, January 14 and will meet MTTh at 12:00 in room 6 of COB. Call 624-3221 or 624-7438 if you are interested.

SENTZ HAS ACCEPTED NEW POSITION

Dr. Jim Sentz from International Agric. Programs, has accepted a new position as the AID (Agency for International Development) Agricultural Liaison Officer at IITA (International Institute for Tropical Agriculture). Jim will be posted at IITA headquarters near Ibadan, Nigeria, but will have regional responsibilities and will travel extensively throughout Sub-Saharan Africa. Jim's role in his new position will be to assist in improving agricultural research and development and quality of life in approximately 40 African countries assisted through AID's support to Sub-Saharan Africa's International Ag. Research Centers (IARCs), national and regional agricultural systems, networks and USAIDS. Dr. Sentz is tenured through our department.

INTERNATIONAL DEVELOPMENT INTERN PROGRAM

We have received information on the International Development Intern (IDI) program sponsored by USAID. The IDI program is an entry program, tailored to train qualified men and women to become Foreign Service Officers for AID's foreign economic assistance programs in Africa, Asia, Latin America, and the Near East. This assistance includes agriculture, food and nutrition, family planning and health, education and human resources, energy, rural development and science and technology. Check the bulletin board outside 411 Borlaug Hall for more information.

CONFERENCE ON AG. IMPACTS ON GROUNDWATER

A Conference on Agricultural Impacts on Ground Water is scheduled for March 21-23, 1988, in Des Moines, Iowa. This conference is sponsored by the Association of Ground Water Scientists and Engineers. Check the bulletin board for registration information.

SEMINARS THIS WEEK

Monday: Plant Breeding Seminar
Jan. 11 Transposon tagging: Theory and application.
Michael Benner, in 306 Borlaug Hall at 4:00 p.m.

Wednes.: Soil Science Seminar
Jan. 13 Effects of slope steepness, bulk density and surface roughness on interrill soil erosion.
Yingmin Wang, in 375 Borlaug Hall at 1:00 p.m.
Agronomy Seminar
Somatic hybridization in Lotus
Dr. Dave Somers, in 306 Borlaug Hall at 4:00 p.m.

POSITION ANNOUNCEMENTS

- Assistant Prof.- Weed Physiology, Department of Entomology, Plant Path., and Weed Science, New Mexico State Univ., Las Cruces, NM.
- Plant Breeder-Station Manager and Director of Corn Research. Interstate Seed is currently looking for a plant breeder with 2-4 years of experience in corn. Position is located in Madison, Wisconsin.
- Research Associate/Post-doctoral Fellow - Soil Chemistry, Plant and Soil Science Dept., Montana State Univ., Bozeman, MT.
- Associate in Research/Weed Science (one-year appointment) to assist in research in Integrated Pest Management system in northwest wheat region. Washington State Univ., Dept. of Agronomy and Soils, Pullman, WA.
- Three teaching positions at Hamline University, St. Paul, MN. 1) Cell Biology/Histology, Biochemistry, Vertebrate and Human Anatomy, General Biology; 2) Genetics, Physiology (Plant and Animal), Environmental Science; 3) Environmental Science.
- Corn Breeding Technician, Pioneer Hybrid Intl., Inc., Eau Claire, WI.
- Agronomist to begin private consulting and service for large farming operation and elevator customers in east-central North Dakota. Need a person with field experience in managing dryland crops including small grains, sunflowers, corn, etc. Farmers Elevator, Inc., Grace City, North Dakota.
- Assistant Professor, Weed Physiology/Weed Science, Dept. of Plant and Soil Science, Montana State University, Bozeman, MT.
- Crop Science Department Head and Senior Research Agronomist, Dept. of Crop Science, Experiment Station of the Hawaiian Sugar Planters' Association, Aiea, Hawaii.
- Post-doctoral position in Plant Biochemistry, Dept. of Biochemistry, Univ. of Nebraska-Lincoln, Lincoln, Nebraska.
- General Mills Land Grant Chair in Cereal Chemistry and Technology, Dept. of Food Science, Univ. of Minnesota, St. Paul.
- Associate Dean for Undergraduate Affairs, College of Biological Science, Univ. of Minn., St. Paul.

MIN 1988

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Department of Agronomy and Plant Genetics

CONGRATULATIONS DUANE

Duane Smith was recognized as an Honorary Premier Seedsmen at the annual meeting of the Minnesota Crop Improvement Association on Monday evening. Congratulations Duane!

FLOWER AND GIFT FUND

The Flower and Gift Fund is shriveling up. By the number and tone of the thank you notes we receive from people who have received flowers on special occasions it's very obvious that the Flower and Gift Fund serves a useful purpose. Let's all make an effort to get our money in to Avis in 411 Borlaug Hall soon. Today is payday!!! Thanks.

MARTIN LUTHER KING'S BIRTHDAY

Monday, January 18, 1988, has been set aside to celebrate Martin Luther King Jr.'s birthday. The University will be closed and will re-open on Tuesday, January 19.

DEATHS

Robert Jones' mother died on Wednesday evening in Georgia.

Daniel Putnam's father-in-law died on Wednesday in India.

CIVIL EXCELLENCE AWARD

It is once again time to nominate your favorite Civil Service person for the Annual Civil Service Excellence Award. The Civil Service Liaison Committee (Phil Schaus, Jim Halgerson, Judy Slyter, and Lynne Medgaarden) will accept nominations until February 15, 1988. An award ceremony will be held in early April. If you need a copy of the guidelines for nomination see Lynne in 411 Borlaug Hall.

FACULTY MEETING WITH HORTICULTURE

Attention Agronomy Faculty: Don't forget about the joint faculty meeting with Horticultural faculty on January 26.

NEW ADDRESS

Paul Bullock has a new address. He is now working with Garst Seed Company in Ames. His home address is 3209 Duff Avenue, Apt. 3; Ames, IA 50010; Phone (515) 232-4654.

NEW CIVIL SERVICE RULES

Two major changes in the University Civil Service Rules went into effect on January 9, 1988: 1) Two weeks of paid parental leave of absence after birth or adoption of a child (not counted against vacation or sick leave); and 2) Use of sick leave up to 2 days a year for wellness programs (such as weight loss classes or drug abuse programs).

CONGRATULATIONS BETH

Beth N. Schreiber has been selected as this year's H.K. Hayes Graduate Student Award recipient. The award is based on scholarship, research competency, and leadership. Presentation of the award will be at the H.K. Hayes Memorial Lecture. The date is yet to be determined. Congratulations Beth!!!

CROPS AND SOILS PLANNING CONFERENCE

The Crops and Soils Planning Conference on January 19-20, 1988, will start out in Room 335 Borlaug Hall and then will break up into smaller groups meeting in several different locations.

BIOCHEMISTRY 8225 CANCELLED FOR SPRING

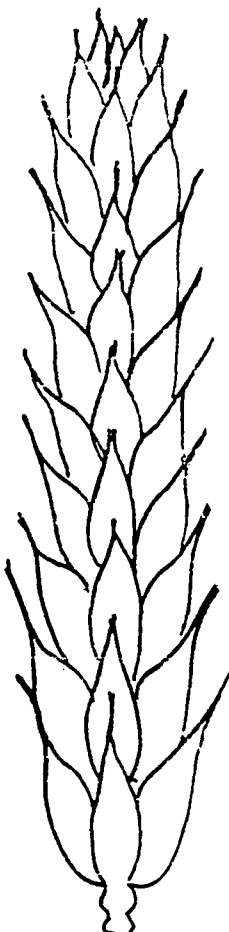
BioC 8225, Tracer Techniques, normally scheduled for spring quarter will not be offered this year. Due to a temporary staff shortage the class will not be offered this year but will be offered again next year.

RANDY ELLINGBOE IS LEAVING

Randy Ellingboe, assistant scientist with Neal Martin's project, will be leaving the department as of Tuesday, January 19. Randy has accepted a new position with the Minnesota Pollution Control Agency in downtown St. Paul. We will miss you Randy!!

PARTNERS OF THE AMERICAS FELLOWSHIP

The Fellowship In International Development Committee is looking for potential candidates for the Partners of the Americas Fellowship in International Development Program, Phase IV. This program is designed for anyone from 25-45 years of age with a demonstrated interest in international relations. Participants from Minnesota will take part in a series of seminars, development projects and other learning experiences for 4-6 weeks with participants from Uruguay. Check the bulletin board outside 411 Borlaug Hall for more information.



THE FRENCH CONNECTION?

Dean Allen recently returned from a visit to France during which he interacted with officials from France's Institut National de Recherche Agronomique (INRA), an organization comparable to our USDA. He reports that he was shocked by what he encountered; attitudes have changed dramatically since he was last there, and France appears to be undertaking an aggressive overhaul and expansion of its agricultural education and research. They have recently adopted something comparable to our Ph.D.; and their INRA budget is currently larger than the USDA's. Everyone Dean Allen met with spoke to him in English, and he was told that they want to get their scientific information published in English. Several of their principal publications will be in English. French scientists are very interested in establishing exchange agreements with U.S. universities. There currently are projects with the U. of California, Cornell, and Wisconsin. Dean Allen was asked to consider establishing some sort of formal faculty and graduate student exchange arrangement. His impression is that this may be an excellent opportunity for us to interact with and learn about a major international, developed, agricultural country. He recommends that we consider it seriously. He has asked Dr. Burnside to gather faculty reactions and thoughts on the idea. If you have suggestions or comments, please forward them to Dr. Burnside soon. Kent Crookston

POSITION ANNOUNCEMENTS

- Research technicians (2), Molecular Genetics Lab., Dept. of Biotechnology Research, Pioneer Hi-Bred Intl., Inc., Johnston, IA.
- Research technician, Plant Transformation Lab., Dept. of Biotechnology Research, Pioneer Hi-Bred Intl., Inc., Johnston, IA.
- Research associate, Dept. of Plant Path. and Crop Physiology, Louisiana State Univ. Agric. Center, Baton Rouge, LA.
- Director, Aquatic Weed Control, South Florida Water Management District, West Palm Beach, FL.
- Asst. or Assoc. Professor, Crop production methods, Texas Agric. Experiment Station, Texas A&M Univ., Corpus Christi, TX.

Check the bulletin board outside 411 Borlaug Hall for more information.

SEMINARS

- Tuesday:** Soil and Water Pollution
Jan. 19 I Dream of Gene: Biotechnology and It's Effects on Pesticide Use.
Dave Somers, in 375 Borlaug Hall at 6:20 p.m.
- Wednes:** Soil Science Seminar
Jan. 20 Goodwin-Spoor Model for Soil Failure with Narrow Tines.
S.M.F. Phenice, in 375 Borlaug Hall at 3:00 p.m.
Agronomy Seminar
Herbicide Synergism.
William Parker, in 306 Borlaug Hall at 4:00 p.m.
- Thurs.:** Plant Physiology
Jan. 21 Plant Hormones and Seed Development.
Mark L. Brenner, in 335 Borlaug Hall at 3:00 p.m.
Entomology Seminar
Animals in Amber.
Richard Ellis, specialist in amber and amber jewelry, in 490 Hodson Hall at 3:00 p.m.
Genetics and Cell Biology
Endocrinology of the Monarch Butterfly.
William Herman, in Rm 70 Bioscience at 4:00 p.m.
- Friday:** West Central Exp. Station
Jan. 22 Worming beef cows and calves.
Richard Vatthauer, in the Station Office building at 3:30 p.m.

As the father of a new freshman told me earlier this year:

"My son and I have a communication problem. I said to him the other day, 'Son, there are two words I'd like you to drop from your vocabulary. One is 'awesome' and the other is 'gross.'"

"Okay, Dad," the boy answered, "What are they?"

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Department of Agronomy and Plant Genetics

FACULTY MEETING

The joint meeting of the Agronomy and Horticultural faculty with Dean C. Eugene Allen and Dean Paul Magee, from Bio Science, will be held on Tuesday, January 26 from 3:00-4:30 in 306 Borlaug Hall.

CIVIL SERVICE NOMINATIONS

Get your nominations for the Civil Service Excellence award in to the Liaison Committee by February 15.

FAREWELL COFFEE

We will hold a farewell coffee for Polly Fernald on Friday, January 29, 1988, in 306 Borlaug Hall at 3:00 p.m. This is Polly's last day in the department. She is moving to Nebraska.

THANK YOU NOTE

Delores Burnside appreciated the beautiful flowers from members of this department. We also thank you for your many expressions of concern. Delores is recovering from surgery and getting back her optimism. She will begin chemotherapy in about a month. She will be released from the hospital on Saturday.
Orvin Burnside

LIBRARY REFERENCE UNIT HOURS

The St. Paul Campus Library Winter Quarter Hours in the Reference Unit are:

Monday-Thursday	- 9:00 am - 5:00 pm
Friday	- 9:00 am - 4:30 pm
Saturday	- 1:00 pm - 5:00 pm
Sunday	- Closed
March 21-25	- 9:00 am - 4:30 pm
March 26	- Closed

PIC MEETING

The Plant Industry Club will tour the U.S. Weather Service with Dr. Mark Seeley, Climatologist, on Thursday, January 28 starting at 5:30.

OFFICIAL STATE SOIL

The Minnesota Association of Professional Soil Scientists (MAPSS) is asking the State Legislature to designate Lester as the state's soil. A number of other states have recognized a state soil.

ITEMS FROM DR. BURNSIDE

Deon Stuthman has begun his one-half time quarter release in the Department of Agriculture and Applied Economics. He needs release time from some of his committee activities in order to achieve what he has set out to accomplish. For example, Department Building Committee questions should now be referred to Tom Warnke, Avis Kunkel or Orvin Burnside.

Funding has been obtained from Central Administration for a pesticide facility on the St. Paul campus for receiving, storage, preparation, shipping and disposal of pesticides. Deon Stuthman represents the department on this committee and Roger Becker will assist by providing expertise and needs for safe herbicide handling.

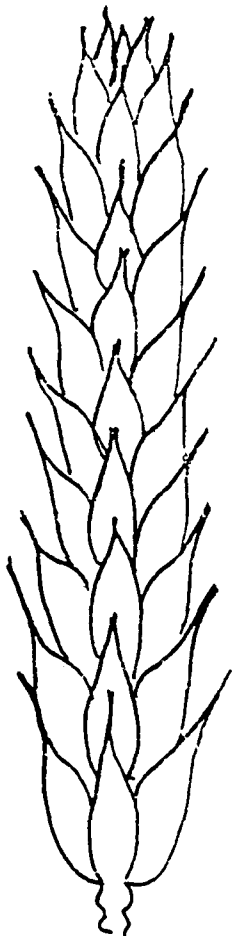
A contract has been awarded to alleviate the extreme heat problem surrounding the drying ovens in the Crop Research Building (No. 388). Money has been obtained to repair rusted out evaporative cooling units on department greenhouses. We will meet January 27 with U of M architects and maintenance personnel about problems that need to be corrected in our teaching greenhouse-headhouse. Designated parking areas and signs will be installed around the northwest greenhouse area. Machinery storage needs on the St. Paul campus continue to increase especially with new faculty and set-up funding. Keep us informed of needs or problems that arise.
Orvin Burnside

AMENDED PESTICIDE LAW

The Department of Agriculture has amended Pesticide Law Chapter 18B. We are now required to maintain a record of pesticides used on each site for 5 years. For people spraying in the greenhouses and growth chambers there will be a form in the Chemical Prep Room in the teaching greenhouse/headhouse to fill out. Thank you for your help.
Susan Nielsen

FORAGES CONFERENCE

A conference on, "Strategies for Marketing, Feeding, and Grazing Forages" will be held on February 24, 1988 at the Holiday Inn in Detroit Lakes. Dr. Neal Martin will present a session on, "Potential of intensive grass and legume grazing", Dr. Beverly Durgan will present a session on "Weed and brush control in pastures."



SEMINARS

Monday
Jan. 25 Plant Breeding Seminar
The role of aneuploids in plant breeding and genetics.
Lynn Dahleen in 306 Borlaug Hall at 4:00 p.m.
Forest Resources
The forestry investment potential in Minnesota.
Edward Zabinski, Blandin Paper Company, in 211 Green Hall at 3:00 p.m.
Soil Science Seminar
Oxisols and Ultisols: Soils of the past; soils of the future.
Luiz Antonio de Oliveira, in 375 Borlaug Hall at 3:00 p.m.
Food Science Seminar
Consumer and scientific affairs at Kraft, Inc..
Kristin McNutt, Vice. Pres., Kraft, Inc., Glenview, IL. in Room 15 FScN at 4:00 p.m.
Tuesday
Jan. 26 A New Look at Pesticides
There's a fly in my soup: Pest, pollution and importance: The Aldocarb Story.
Edward Radcliffe/David Ragsdale in 375 Borlaug at 6:20 p.m.
Entomology Seminar
Plant quality and density dependent population regulation.
David Andow in 490 Hodson Hall at 3:00 p.m.
Wednes.
Jan. 27 Agronomy Seminar
Herbicide synergism.
William Parker in 306 Borlaug Hall at 4:00 p.m.
Thursday
Jan. 28 Plant Physiology
Phenotypic diversity mediated by maize transposable elements.
Sue Wessler, Dept. of Botany, Univ. of Georgia, in 335 Borlaug Hall at 3:00 p.m.
Friday
Jan. 29 Special Seminar
The American Chestnut Tree: On the road to recovery?
Dr. Charles Burnham in Room 110 St. Paul Student Center at noon.

JOURNAL VOUCHER USAGE - CHEMISTRY DEPT.

Because of the tremendous increase in the use of journal vouchers and accompanying paperwork the Chemistry Department is instituting a \$10.00 minimum charge for all purchases made by journal voucher effective February 1, 1988. Many journal vouchers are coming from departments that already have Chemistry credit card authorization established and they urge those users to fill out an application for a credit card. Frequent users of the Chemistry Departmental Stockroom are also urged to apply for authorization for credit cards. If you have any questions please call Stan Bonnema at 624-6000 or Dale Randall at 625-3093.

POSITION ANNOUNCEMENTS

- Asst. or Assoc. Prof., Horticulture and Environmental Science, Washington State University, Pullman, WA.
- Director, Maryland Agricultural Agricultural Experiment Station, College Park, MD.
- Specialist, Floriculture - Ornamental Horticulture and Landscape Design, Univ. of Tennessee, Knoxville, TN.
- Asst. Professor, Agronomy-Plant Breeding - cereal crops (particularly barley and forage grasses). Univ. of Alaska, Fairbanks, AK.
- Asst. Professor, Agronomy (forages), Univ. of Alaska, Fairbanks, AK.

Kent Crookston's daughter asked him why he had to go back to the office in the evenings. He replied that it was because he didn't get his work finished during the day. She wanted to know, in that case, why they didn't put him in a slower group.

"Every mile is two in winter."
George Herbert, Poet

Hagar the Horrible by Dik Browne



February 5

1988

agronomy gleanings

Department of Agronomy and Plant Genetics

FAREWELL COFFEE

A farewell coffee is scheduled for Laura Benson for Tuesday, February 9 at 3:00 p.m. in 306 Borlaug Hall. Laura is a Master's student on Steve Simmons project.

CIVIL SERVICE NOMINATIONS

The nominations for the Civil Service Excellence award are due to the Liaison Committee by February 15, 1988.

NEW FACES IN THE DEPARTMENT

We have several new people in the department:

Lisa Cirks, Office Assistant, has taken over Polly's position at the front desk in 411 Borlaug.

Gregg Pioske, Student Worker, is helping out in the main office with xeroxing, mailing, filing, etc.

Monica Persik, Jr. Scientist, is working in Dave Somers' lab and **Robin Keith**, is working temporarily, also in Dave Somers lab.

Ruby Larson, Assistant Scientist, is now a member of Carroll Vance's lab.

Aziz El Behri, a graduate student from Morocco, has joined Vern Cardwell's Farming Systems project.

Ahmed Khurshid, a graduate student from Pakistan, has joined Burle Gengenbach's project.

Roberto Tuberosa, a graduate student from Italy, has returned to work with Ron Phillips'.

Nick Haugerud, graduate student, has returned to work on his Ph.D. with Deon Stuthman.

Please welcome these people to our department.

THANK YOU NOTE

The family of Mrs. Mamie Jones acknowledges with grateful appreciation your kind expression of sympathy.

The Jones Family

MASTER'S SEMINAR

Laura Benson will present a Master's seminar on "Post-Anthesis Storage of Nitrate, Fructan, and Water Soluble Carbohydrate in Barley Stems", on Monday, February 8, at 12:00 (noon) in 408 Agronomy.

KEEP UP THE GOOD WORK!

Charlie Burnham gave an excellent talk January 29 on "The American Chestnut Tree - On the Road to Recovery." He discussed recent developments in breeding and blight control that may bring this once doomed tree back to native forests. Keep up the good work Charlie!
Orvin Burnside

H.K. HAYES AWARD AND LECTURE

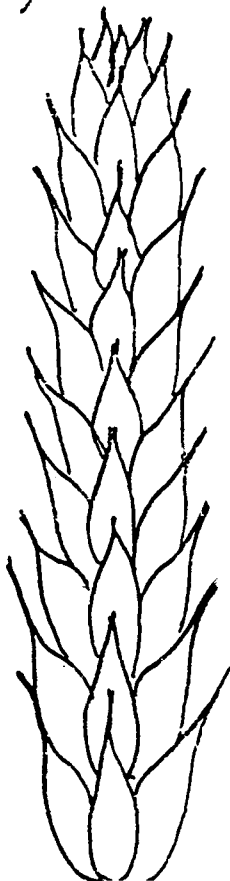
The fifteenth annual H.K. Hayes Memorial Lecture will be presented by Will D. Carpenter, Vice President of the Technology Division, Monsanto Agricultural Company, St. Louis, Missouri. He is responsible for worldwide product research efforts for herbicide discovery; crop protection and improvement; plant sciences technology; and formulation, metabolism and residue technology. He served as the Director of Environmental Management on the corporate Environmental Policy Staff to help ensure consistent and complementary environmental policies and programs worldwide. Dr. Carpenter serves on numerous national committees and is especially well-qualified to speak on "Future of agricultural industries and the environment." The lecture will be April 13, 8 p.m., in 335 Borlaug Hall. Please mark your calendar and invite your spouse and other guests. Dr. Carpenter will meet with graduate students on the evening of April 12 and with faculty during the day on April 13.

UMFA MEETING

VP Heydinger will be featured speaker at the annual meeting of the University of Minnesota Faculty Association (UMFA), February 5 at noon in the Mall View Room, 5th floor, Campus Club. Lobbyist Tom Berg will also be present.

PLANT BREEDING DISCUSSION GROUP

A Plant Breeding Discussion Group will be held at 7:00 p.m. on Tuesday, February 9 at Robert Busch's home. Dr. Pete Ascher will give a short presentation on "Congruity Backcrossing", which will then be followed by discussion. Everyone is encouraged to read Dr. Ascher's recently submitted paper on Congruity Backcrossing. There are two copies on the Reserve Class Material shelf in the Agronomy Library. Details and directions will be posted and distributed.



NEW COURSES FOR SPRING QUARTER

The Soil Science department will offer a new course in the spring entitled: "Mineral Absorption and Nutrition", Soils S429, to be taught by Deborah Allen on MWF from 10:00-10:45.

The College of Agriculture will offer a course called, "Computers in your Profession" on MWF from 1-1:45 for 3 credits. This course is an introductory computer class for COA undergraduate students.

HICKS REPORT FROM MOROCCO

Dr. Dale Hicks has sent us his quarterly report from Morocco. If you have not seen a copy please check with Lynne in 411 Borlaug Hall. He also wrote a brief note: "As always, we're busy with lots of things. There isn't enough time in the day to do what we'd like to get done. It has rained almost continually for two weeks now. I have nitrogen to put on plots, but it's been too wet. Wheat and barley will be heading soon, especially the early planted. The countryside is beautiful with the cereals and the wild flowers. The rain has caused an abundance of the wild flowers. The weatherman here says you've had another snowstorm. I was thinking earlier this week with this miserable rain that it would be snow if I was home. Give my best wishes to the department faculty and staff."

Dale Hicks

SUPPORT GROUP FOR GRADUATE STUDENTS

A group designed to provide encouragement, emotional support and behavioral problem solving for graduate students in the process of procrastinating or completing a thesis has been formed. They meet Wednesdays from 3:15-4:30 p.m. Please call 624-3323 for more information.

INFORMATION ON FELLOWSHIPS

Graduate Students: Don't forget the Graduate School Graduate Assistant Office or Fellowship Office, 411 Johnston Hall, has information on several different types of fellowships, scholarships and other financial aid which you may be eligible for.

POLICE ESCORT SERVICE

The University Police offer an escort service on both the Minneapolis and St. Paul Campus from 6 p.m. to 1 a.m. If you are working late and would like someone to escort you to your car or to another building please call 624-9255 (624-WALK).

PIC ACTIVITIES

The Plant Industry Club will hold a Games Night on Tuesday, February 9 from 5-7 p.m. in 306 Borlaug Hall. Try your skill and ingenuity on a variety of games for profit and pleasure.

SPECIAL OPORTUNITY TO LEARN SAS

Learn SAS fast in a short course (3 days, 2 hrs/day). Cost \$30, all materials included. We need approximately 6 people to make it happen. Contact Debby Muenchrath for more details.

FREE LIBRARY MATERIALS

Roy Thompson has placed a number of miscellaneous library materials (Agronomy Abstracts, Experiment Station publications, etc.) in the Agronomy library. You may take whatever materials you wish. The materials are located in a box on the table along the windows. After February 19, any remaining materials will be discarded.

LOST SWEATER

If anyone found a brown sweater last week in 306 Borlaug please contact David Fan in Genetics at 4-4718. Thank you.

OPEN HOUSE AT BECKWITH COPY CENTER

Beckwith Copy Centers will hold an Open House for University staff on February 9, 10 and 11 from 8-10:00 am at their location in Stadium Village and from 12-2 pm and 4-6 pm at their location at Walnut Street Mall. Their staff will be available to present new services and discuss any questions regarding their capabilities. Refreshments will be served.

NEW JOURNAL FOR LIBRARY

The Journal of Production Agriculture has been ordered for the Departmental library.

FACULTY RETIREMENT POLICY

We have received copies of the Phased Retirement and Terminal Leave/Early Retirement Policy for faculty. Please check with Avis in 411 Borlaug Hall if you would like to see a copy of this policy.

BALANCE STOLEN

A Mettler balance was stolen from 227 Borlaug Hall during the weekend of January 23. Two balances were also stolen from the Soil Science Department that weekend. The policy have been notified.

FRINGE BENEFIT RATES FOR GRANT PROPOSALS

Faculty: The new fringe benefit rates to be used when writing grant proposals are:

Academic	29%
Civil Service	23%
RA (Tuition Reimbursement)	3.55%
RA's over 75% time appointment	5.94%

POSITION ANNOUNCEMENTS

- 2 Post-docs - Crop Physiology, Univ. of Nebraska, Lincoln, NE.
- 4 Post-docs with the Seed Biosynthesis Research Unit at the Northern Regional Research Center (NRRRC) of the USDA in Peoria, IL.
- Farm Advisor - Viticulture-Horticulture, University of California, Berkeley, CA.
- 2 Science and Public Policy Internships, Legislative Research Unit Illinois State Legislature, Springfield, ILL.
- Director for TropSoils Management Entity, through USAID and several universities to develop and adapt soil-management technology for developing countries in the tropics. Position is located at the North Carolina State Univ. in Raleigh, NC.
- Plant Physiologist, Foreign Disease-Weed Science Research Unit, USDA-ARS, Frederick, Maryland.
- Extension Agent, 4-H Youth, Assistant Professor, Oregon State University, Corvallis, OR.
- Extension/Research Associate, Agronomy Dept, University of Missouri, Columbia, MO.
- Assistant or Associate Professor, Weed Scientist, University of Idaho, Moscow, ID.
- Research Scientist, Department of Agronomy, Colorado State University, Fort Collins, CO.
- Research Technician, Pioneer Hi-Bred International, Inc., Dept. of Soybean Breeding, Redwood Falls, MN.
- Molecular Biologist, University of Minnesota, St. Paul, MN.
- Research Director, National Wildflower Research Center, Austin, Texas.
- Dean-College of Natural Resources, University of Wisconsin-Stevens Point, Stevens Point, WI.
- Post Doct, USDA-ARS Cotton Production Research Unit, Clemson's Pee Dee Research & Education Center, Florence, SC.
- Assistant Vice President-Administration Agriculture and Natural Resources, University of California, Berkeley, CA.

HOUSE FOR SALE

Kay and Delane Welsch have their house for sale in St. Anthony Park. Four bedrooms, lovely yard, 10-minute walk to campus. Check the bulletin board for more information.

SEMINARS

- Monday Feb. 8** Plant Breeding Seminar
Incorporating exotic materials into adapted populations.
Nick Haugerud, in 306 Borlaug Hall at 4:00 p.m.
- Soil Science Seminar
Determination of Soil Thermal Properties by the Calorimetric Method.
Dr. Eva Sikora, Institute of Agrophysics, Polish Acad. of Science, in 375 Borlaug Hall at 3:00 p.m.
- Tuesday Feb. 9** Food Science Seminar
Comparison of functionality of UF-solids and nonfat dry milk solids.
Peter Falkum, in 15 FScN at 4:00 p.m.
- Entomology Seminar
Recent refinements in estimating economic injury levels of insects.
Scott Hutchins, Dow Chemical Co., in 490 Hodson Hall at 3:00 p.m.
- Soil and Water Pollution Seminar
The State of Minnesota: Developing Policies, Legislation & concerns regarding pesticide use. Senator Greg Dahl, Coon Rapids, Chair, Environmental Protection Subcommittee, in 375 Borlaug Hall at 6:20 p.m.
- Wednes. Feb. 10** Ecology and Behavioral Biology
Nitrogen cycling and nitrous oxide flux from humid tropical forests.
Dr. Pamela Matson, NASA-Ames Research Center, in 313 Zoology at 4:00 p.m.
- Agronomy Seminar
An assessment of cereal production technology in the Sahel Region of Africa.
Kent Crookston, in 306 Borlaug Hall at 4:00 p.m.
- Thurs. Feb. 11** Plant Physiology Seminar
The effects of cold acclimation on tubulin isotypes isolated from cell suspension cultures.
Marna E. Ericson, in 335 Borlaug Hall at 3:00 p.m.
- Friday Feb. 12** Special Seminar
Groundwater pollution in Minnesota.
John Nieber, Ag. Engineering, in Room 202 St. Paul Student Center at noon.

SOYBEAN UTILIZATION SYMPOSIUM

The Center for Alternative Crops and Products will sponsor a symposium on Soybean Utilization Alternatives on February 16-18 at the Radisson Hotel South in Bloomington. The symposium will discuss past, present and future uses of soy products. For more information contact Laura McCann at 625-5747 or Cathie Bergum at 625-2722.

MAKE YOUR OWN SNOWSHOES

The St. Paul Student Center is offering a winter mini course in snowshoe construction on Saturday, February 20 from 9 am-5 pm. Cost is \$38.00 for students and \$42.00 for non-students. This price includes the kit to make the snowshoes. This is a really fun class and the snowshoes look great when you are finished. Call the 625-8790 for more information.



Warning

*When I am an old lady I shall wear purple
With a red hat, which doesn't go and
doesn't suit me.
And I shall spend my pension on
brandy and summer gloves,
And satin sandals, and say we have no
money for butter.
I shall sit down on the pavement
when I am tired
And gobble up samples in shops and
press alarm bells
And run my stick along the public
railings
And make up for the sobriety of my
youth.
I shall go out in my slippers in the rain
And pick the flowers in other people's
gardens
And learn to spit.*

...
*But maybe I ought to practice a little
now
So people who know me are not too
shocked and surprised
When suddenly I am old and start to
wear purple.*

MIKE REED

MINNESOTA AT WAR WITH WINTER

*During a visit to Minneapolis in
winter, writer Tom Wolfe said
everywhere he looked he saw little
hand grenades running around.*



agronomy gleanings

February 12

1988

Department of Agronomy and Plant Genetics

FACULTY MEETING

Faculty - Mark your calendars. A faculty meeting is scheduled for Friday, February 26 at 8:00 a.m. in 306 Borlaug Hall.

COMMITMENT TO FOCUS DOCUMENT

We have received two copies of the "Commitment to Focus, Academic Priorities 1988-1993" in the main office for departmental and staff use. If you would like to see one please check with Lynne in 411 Borlaug Hall. If you would like a copy of your very own please call 624-8333.

PAT GANSER IS LEAVING

Pat Ganser, word processing specialist for the USDA faculty, will be leaving the department as of Friday, February 19. She will be moving to Willmington,

Illinois where her husband has obtained a new position. If you would like to stop by and say goodbye we will have treats in the main office on Thursday, February 18.

ORGANIC CHEM LABS CANCELLED AT ST. PAUL

The Chemistry Department has cancelled the Organic Chem 3306 and 3305 labs on St. Paul Campus starting Spring Quarter. The labs were closed because they are unsafe. The Chemistry Department will increase the control size of the Organic Chem labs on Minneapolis Campus.

NEW COURSE

The Botany Department will offer a course in Introductory Plant Taxonomy, Spring Quarter 1988, Botany 3201, 3 credits, instructor - John Doebley, on Tuesday and Thursday 1-3:45.

APPRENTICESHIP FOR HIGH SCHOOL STUDENTS

The USDA-CSRS is again sponsoring a Research Apprenticeship Program for high school juniors and seniors in 1988. The main objective of this program is to stimulate interest among minority communities in science related careers. If you are interested in applying see Avis in 411 Borlaug Hall for more details.

SPRING QUARTER CLASS SCHEDULES

Spring quarter class schedules are available in 411 Borlaug Hall.

KELLER TO SPEAK AT ALL-CAMPUS CONCLAVE

Each quarter the St. Paul Board of Colleges hosts a meeting of all the student organizations on our campus to share, meet new people, award small grants, and hear and important speakers address university-wide issues. In the past, this meeting has included the Presidents of all St. Paul student organizations. In order to include more students in this event and expand its scope, we will begin calling these quarterly meetings "Conclaves", and inviting officers and members of all organizations on the St. Paul campus, along with other interested students and guests. The entire department is invited to attend this first meeting (not just student organizations). To inaugurate this format, the SPBOC has invited President Kenneth Keller to speak at the first meeting at the St. Paul Theater at promptly 3:00 p.m. on Monday, February 15. A reception will be held from 4-5 p.m.

UPDATE

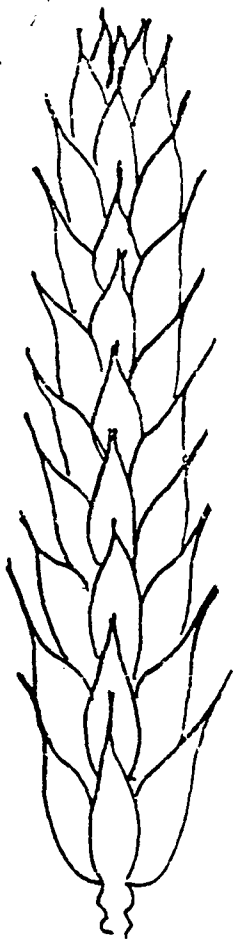
Delores Burnside has recovered well from her surgery. Next week she will be in the U of M hospital for a pump implant which is needed to initiate her chemotherapy. We thank you all for your many expressions of concern and for remembering Delores in your prayers. Orvin Burnside

LIBRARY NEWS

The Departmental library will now receive the Journal of Production Agriculture, a journal of interactive agriculture with an emphasis on defining and solving interdisciplinary and applied agricultural production problems.

FREEZER CLEAN-OUT IN CROPS RESEARCH

ATTENTION: Annual freezer and cold room clean-out in Room 7 of the Crops Research Building. The first week of March I will be going through the cold rooms, and discarding all samples that are not currently or properly labelled. Each sample should have your dept. name, your name, and current date from 1987 or 1988. Any sample without this information will be thrown out. If there are any questions you can call me at 625-3135. Thanks, Tom Warnke.



CROPS TEAM RECEIVED AWARD FROM REGENTS

Dr. John Goodding and the 1987 Crops Team, Gary Hauser, David Janson, Michael Lund, and James Ruhlman, received an award from the University Regents at their meeting on Friday, February 12. The award recognizes the team for winning first place at the 1987 Chicago Collegiate Crops Contest on November 21, 1987. The award states "excellence in any endeavor is a goal toward which all should aspire"

Crops Team Record 1980-87

Over the past 8 years University of Minnesota Twin Cities Crops Teams have won 4 national championships (consists of placing first in the American Royal Collegiate Crops Contest, Chicago, IL), placed first in 10 of 16 national contests, placed second or better in 12 of 16 national contests, seven team members have been the high individual in a national contest, all students representing the Univ. of Minnesota-Twin Cities, who have participated in a national contest have qualified for "All-American" honors (consists of scoring 570 -95%- or better out of a possible 600 points in at least one of the three phases of a national contest).

FERTILIZER ORDERS

I will be ordering fertilizer for our department for St. Paul use on March 1st. If you have any special orders let me know in writing. I will be ordering the same analysis, and volume as last year if I don't hear from anyone.

Tom Warnke.

FUNDING FOR SEED RESEARCH

We have received information on grants offered through the American Seed Research Foundation. These grants are to support research on seeds. The grants are for \$4,000-5,000 each year for a three-year period. For more information check with Avis in 411 BH.

LOCK CHANGED ON COMPUTER ROOM

As of Monday, February 15, the combination for the lock on the computer room will be changed. See Lisa in 411 Borlaug Hall for the new combination.

A COMPARISON

Dr. Burnham said when he was a student worker in Agronomy in 1920-22 he earned \$0.35/hour. Today student laborers start at \$5.82/hour. Dr. Elling said he received \$0.25/hour in 1938-39 during the depression. In 1941 with a B.S. in Agronomy he earned \$0.50/hour supervising a sorghum breeding project.

POSITION ANNOUNCEMENTS

- Computer Manager/Programmer, Dairyland Research International, Clinton, WI.
- Predoctoral Research Associate, Agronomy Dept., Iowa State University, Ames, Iowa.
- Plant breeder/agronomist at M.S. level for field and greenhouse research on small grains for the Rolling Plains of Texas. Texas A&N, Vernon, TX.
- Assistant Agronomist, University of California Agricultural Experiment Station, Rice Experiment Station, Biggs, California - University of California, Davis, California.
- Assistant Professor of Landscape Architecture, Department of Horticulture and Landscape Architecture, Washington State University, Pullman Washington.
- Assistant Professor of Weed Science and Assistant Agronomist, Dept. of Agronomy and Soils, Washington State University, Pullman, Washington.
- Agricultural Extension Specialist, USDA, Extension Service, Agricultural Programs, Plant and Management Sciences Staff, Washington, DC.

FACULTY ASSEMBLY MEETINGS

Faculty - Mark your calendars! There will be a College of Agriculture Faculty Assembly meeting on Monday, February 22 from 3-5 p.m. in B-45 Classroom Office Building. Agenda topics are: Bus transport route, Cleveland, Larpenteur and Gortner traffic issues, general discussion of the report "Commitment to Focus Academic Priorities, 1988-1993". Also, there will be a Winter Quarter Faculty Assembly on Wednesday, March 2 from 3-5 p.m. in B-45 COB. Please submit agenda topics for this regular meeting to Jackie Olenick, 277 Coffey Hall by Friday, February 19. Vice President Richard Sauer will also attend these two meetings.

MINNESOTA CAUCUS NIGHT

All Extension Classes scheduled to begin at 5:00 p.m. or later on Minnesota Caucus night Tuesday, February 23, 1988, will be cancelled. Please feel free to call 5-5058 if you have any further questions.

SUN BOWL

The St. Paul Student Center will once again hold their Sun Bowl, February 15-March 3. Entrants in this singles handicap bowling tournament are eligible to win a trip for two to Hawaii plus a number of other prizes. The entry fee is \$7.

AGRICULTURAL NATIONAL NEEDS FELLOWSHIPS

Application guidelines for the Agricultural National Needs Graduate Fellowships Grants Program for fiscal year 1988 are available from Elsa Batica at 625-4211. The deadline for applications is April 5, 1988.

SEMINARS THIS WEEK

Monday Plant Breeding Seminar
Feb. 15 Release of genetically altered organisms: Regulations and issues.

Margaret Stahler, in 306 Borlaug Hall at 4:00 p.m.

Forest Resources Seminar
Directions and Opportunities for Minnesota Forestry.

Gerald A. Rose, in 211 Green Hall at 3:00 p.m.

Food Science Seminar
Research in dairy microbiology in France.

Dr. J. Richard, Centre de Recherches de Jouy-En-Josas, France, in FScN 15 at 4:00 p.m.
Entomology Seminars

Tuesday
Feb. 16 Evolution of wing color pattern in pierid butterflies.

Joel Kingsolver, in 490 Hodson Hall at 3:00 p.m.

Soil and Water Seminar
The midwest cannonball:

Changing National and Minnesota Ground Water Strategies and Policies Toward Pesticides. David Wall, Hydrologist with MPCA, in 375 Borlaug Hall at 6:20 p.m.

Thurs.
Feb. 18 Plant Physiology
Nitrate assimilation in Chlamydomonas.

Dr. Emilio Fernandez, in 335 Borlaug Hall at 4:00 p.m.
Genetics and Cell Seminar

The use of an insertional arabidopsis to study tricomb formation.

Dr. David Marks, in 70 Bioscience at 4:00 p.m.

USDA Seminar
Introduction of genetically engineered microorganisms.

Dr. Arnold Foudin, in 335 Borlaug Hall at 4:00 p.m.

Friday
Feb. 19 1988 Agric. Research Seminar
Hardy plants for West Central Minnesota.
W.H. Gray, in Station Office Building, Morris, MN at 3:30 p.m.

KEY FOUND

The janitor found a key in the men's room on the 4th floor of Borlaug Hall. It is a single key with a digital clock attached.

NOMINATIONS DUE

The nominations for the Civil Service Excellence Award are due February 15, 1988 to the Liaison Committee.

GREETINGS

Rob Bertram, liaison with USAID international research centers in Washington, D.C., sends his greetings to the department. He received the M.S. with Deon Stuthman in 1978.

BUDDY SYSTEM ★★

On stage, screen, TV, and the printed page, the leading man is often given a sidekick for dramatic purposes or for comic relief. Can you match these heroes with their steady companions?

- | | |
|-----------------------|------------------------|
| 1. The Cisco Kid | a. Pat Brady |
| 2. Matt Dillon | b. Bunter |
| 3. Huck Finn | c. Falstaff |
| 4. Sgt. Joe Friday | d. Bill Gannon |
| 5. Don Giovanni | e. Chester Goode |
| 6. Prince Hal | f. Archie |
| 7. Henry Higgins | g. Goodwin |
| 8. Don Quixote | h. Dick Grayson |
| 9. Roy Rogers | i. Jim |
| 10. Bruce Wayne | j. Leporello |
| 11. Lord Peter Wimsey | k. Pancho Sancho Panza |
| 12. Nero Wolfe | l. Colonel Pickering |

APT INITIALS ★★

If "Baby Specialist" is Benjamin Spock, and "Super Pitcher" is Satchel Paige, who are the following people?

1. Johnny's Predecessor
2. Etiquette Pro
3. Renowned Castaway
4. Reel Boxer
5. Publishing Heiress
6. Jesus's Informer
7. Mafia Profiler
8. Wunderkind And Musician
9. Slugs Photographers
10. Interpretive Dancer
11. Stops Timber Blazes
12. Vowel Whirler
13. Resignation Made News
14. Leia's Sibling
15. "Sir" Portrayer
16. excluded every capital
17. Great Pretender
18. Egg Bearer
19. Insider Broker
20. Building Futurist

Answers on next page.

Answers

- | | |
|----------------------------|----------------------------|
| 1. Jack Paar | 11. Smokey the Bear |
| 2. Emily Post | 12. Vanna White |
| 3. Robinson Crusoe | 13. Richard Milhouse Nixon |
| 4. Rocky Balboa | 14. Luke Skywalker |
| 5. Patty Hearst | 15. Sidney Poitier |
| 6. Judas Iscariot | 16. e.e. cummings |
| 7. Mario Puzo | 17. George Plimpton |
| 8. Wolfgang Amadeus Mozart | 18. Easter Bunny |
| 9. Sean Penn | 19. Ivan Boesky |
| 10. Isadora Duncan | 20. Buckminster Fuller |

Buddy System

- 1-j. Pancho (*The Cisco Kid*)
- 2-e. Chester Goode (*Gunsmoke*)
- 3-h. Jim (*Huckleberry Finn*)
- 4-d. Bill Gannon (*Dragnet*)
- 5-i. Leporello (*Don Giovanni*)
- 6-c. Falstaff (*Henry IV*)
- 7-l. Colonel Pickering (*Pygmalion*)
- 8-k. Sancho Panza (*Don Quixote*)
- 9-a. Pat Brady (*The Roy Rogers Show*)
- 10-g. Dick Grayson (*Batman*)
- 11-b. Bunter (mysteries by Dorothy Sayers)
- 12-f. Archie Goodwin (mysteries by Rex Stout)



When potato salad goes bad

TO TOP IT OFF ★

Perhaps you can answer these clues off the top of your head. Each answer is a word, phrase, or title containing the word TOP. For example, the clue "Upside down" would

lead to the answer TOPSY-TURVY, while "Coie Porter hit song" would be YOU'RE THE TOP. Top-notch solvers should be able to answer at least 10 of the clues.

- | | |
|--|--|
| 1. Formal headgear _____ | 8. 1986 Tom Cruise movie _____ |
| 2. <i>Uncle Tom's Cabin</i> slave girl _____ | 9. Casey Kasem's radio countdown _____ |
| 3. Circus tent _____ | 10. Tennis ball "English" _____ |
| 4. Ultra-confidential _____ | 11. Cereal prize ordering need _____ |
| 5. 1937 movie about a ghostly couple _____ | 12. 1964 caper movie _____ |
| 6. Old desk type _____ | 13. Lose one's temper _____ |
| 7. Like maps of mountains _____ | 14. Motown quartet _____ |

- 1. Top hat
- 2. Topsy
- 3. Big top
- 4. Top secret
- 5. Topper
- 6. Rolltop
- 7. Topographical
- 8. Top Gun
- 9. *American Top 40*
- 10. Topspin
- 11. Boxtops
- 12. *Topkapi!*
- 13. Blow one's top
- 14. The Four Tops

28 TO TOP IT OFF

ANSWERS

February 22 1988 agronomy gleanings

Department of Agronomy and Plant Genetics

PIC INTERNATIONAL NIGHT

The Plant Industry Club will hold an International Night on Tuesday, February 23 at 5:00 p.m. in 306 Borlaug Hall

GRAD STUDENTS FIESTA!!

Attention Graduate Students: Pot-luck dinner - South of the border style. Saturday, February 27, 6 p.m., right here in El Borlaug (Room 306). Food Theme: Burritos, tacos, salads, goodies. Sign up with Roberto Buehler, Estan Dotson, Lorita Marshall. (Anybody have some authentic Mexican music?) Ole'

RESEARCH PROJECT SEMINARS

This year we have three on-going and one new research project to review. These four review seminars are scheduled for Wednesday, March 16 starting at 12:00 (noon) in 306 Borlaug Hall with Kent Crookston - Crop Production & Physiology; Jeff Gunsolus - Weed Management Strategies for Crop Production Systems; Robert Jones - Physiology of Corn Productivity; Steve Simmons - Physiology of Yield in Grain Crops.

ANYONE NEED ANOTHER ROOMMATE??

Don Barnes will have a young man from Yugoslavia visiting on his project from March 1 to October 7. He would like to find housing for this period. If anyone is looking for a short-term roommate please contact Don Barnes at 625-4780.

SPECIAL FACULTY ASSEMBLY

The College of Agriculture faculty will have a Special Faculty Assembly on Monday, February 22 from 3-5 p.m. in B-45 Classroom Office Building.

POSITION ANNOUNCEMENTS

- Agriculturist (Biotechnologist), USDA APHIS, Plant Protection and Quarantine Program, Hyattsville, MD.
- Postdoctoral Research Associate to conduct research on corn insects, Plant Science Department, South Dakota State University, Brookings, SD.
- Postdoctoral Training Opportunities at ICRISAT (International Crops Research Institute for the Semi-Arid Tropics). These appointments are for one year and offer an excellent opportunity for graduate students to experience international agriculture.
- Postdoctoral Research Associate to work on aspects of amino acid metabolism in leaves, Plant Biochemistry, Carleton Univ., Biology Dept., Ottawa, Canada.
- Postdoctoral Research Associate to conduct research in energy balance relationships on a grassland ecosystem, Kansas State University, Dept. of Agronomy, Manhattan, KS.
- Head, Dept. of Horticulture and Landscape Architecture, Oklahoma State Univ., Stillwater, OK.

INTRODUCTION TO SUSTAINABLE AGRICULTURE

The University of California-Davis is offering a summer course entitled: Introduction to Sustainable Agricultural Systems from June 27 to September 2. Cost is \$350. Check the bulletin board outside 411 Borlaug Hall for more information.

SAS SHORT-COURSE

Three two-hour sessions of SAS will be offered on Thursday, February 25; Tuesday, March 1; Thursday, March 3 from 3-5 p.m. in 125 Coffey Hall. The cost is \$30 for students; \$40 for staff. Forms for registration are located on the Bulletin Board outside 411 Borlaug Hall. Please register by February 23. Contact Jan at St. Paul Computing Services (624-7788) for more information.

A key ring is a handy little gadget that allows us to lose all of our keys at once.

The Milwaukee Journal.

SEMINAR

Monday
Feb. 22 Food Science Seminar
Active packaging technologies.
Dr. T.P. Labuza in Room 15 Food
Science and Nutrition at 4 p.m.

Forest Resources Seminar
Allocation and the dynamics of
plant communities: Theory and
application to Cedar Creek.
Dr. David Tillman in 211 Green
Hall at 3:00 p.m.

Soil Science Seminar
Processes and effects of soil
compaction by heavy wheel
traffic.
Michael S. Dolan in 375 Borlaug
Hall at 3:00 p.m.

Tuesday
Feb. 23 Soil and Water Pollution Seminar
Developing public health
policies toward pesticides and
how tolerances are established.
Thomas Klaseus, Minn. Dept. of
Public Health, in 375 Borlaug
Hall at 6:20-8:20 p.m.

Plant Breeding Seminar
----- Rescheduled -----
Environmental effects on
disease reaction and their
implications in breeding for
resistance.
Gary Pomeranke, in 306 Borlaug
Hall at 4:00 p.m.

Entomology Seminars
Plain and fancy insect rhythms.
Laurence Cutkomp in 490 Hodson
Hall at 3:00 p.m.

Wednes.
Feb. 24 Ecology and Behavioral Biology
Prey selection and parental
investment in the digger wasp,
Philanthus sanbornii.
Dr. Jon Segar, Dept. of
Biology, Univ. of Utah, in 313
Zoology at 4:00 p.m.

Thurs.
Feb. 25 Genetics and Cell Biology
Prostaglandin and cAMP in
transformed pancreatic islet B-
cells.
Paul Robertson, in Room 70
BioScience at 4:00 p.m.

Master's Seminar
Developmental changes in the
carbon costs of dinitrogen
fixation in legumes.
Scott Twary in 408 Agronomy at
9:00 a.m.

Plant Physiology Seminar
Phenylpropanoid and flavonoid
metabolism in juvenile and
mature English ivy.
John R. Murray in 335 Borlaug
Hall at 3:00 p.m.

Forest Experiment Station
The American chestnut: Disas-
trous past and the coming
renaissance.
Philip Rutter in NCFES
Conference Room at 2 p.m.

Friday
Feb. 26 Forest Resources Seminar
Effective management in
forestry: An application to
fuelwood and multi-purpose tree
species research in Central
America.
Luis Ugalde in 211 Green Hall
at 9:00 p.m.

Special Seminar
Mediating farm foreclosures:
How is it done?
Kathy Mangum, Program Admin.
Farm Credit Mediation, in Room
110 of St. Paul Student Center
at noon.

THE CHANCE FOR AN EDUCATION

Two buddies were walking home from school one day.
"What should we do tonight?" the first asked.
"Let's flip a coin," replied the second. "If it comes up heads, we'll go to the dance.
If it's tails, we'll go to a movie. And if it stands on end, we'll study."

Mrs. H. W. Walker.

Young Greg went to school one morning and said to his elementary school teacher,
"I have some bad news for you."
When his teacher asked what it was, Greg replied, "I don't want to scare you,
but my father says if my grades don't improve this year, *somebody* is going to be
in a lot of trouble."

Grit.

The teacher helped her first-graders put on their galoshes before going home one
wet day. "These aren't mine," little Tommy announced, after the teacher had just
spent ten minutes jamming a pair onto his feet.
Just as she pried them off again, he declared, "They're my sister's, but Mom said
I could wear them today."

The Saturday Evening Post.

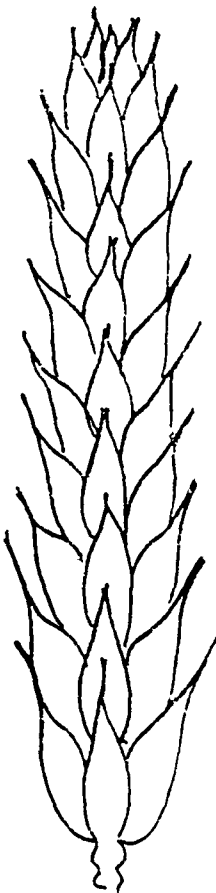
February 26

MW
6/2/88

agronomy gleanings

1988

Department of Agronomy and Plant Genetics



FIELD SPACE ON CAMPUS

Anyone needing field space on the St. Paul Campus for 1988 who is not already assigned permanent space should get their requests to me no later than March 18. Your written request can be left in my mailbox in the main office (411 Borlaug Hall). Tom Warnke

UNDERGRADUATE BANQUET

Faculty, Staff, and Graduate Students are invited to the Sixteenth Annual Parent-Undergraduate Dinner on March 8, 1988 at the Earle Brown CE Center, Shingle Creek Room. The reception starts at 6 p.m. with dinner following at 6:45 p.m. Tickets can be purchased from Pat in 302 Agronomy before March 4.

STUDENT INTERNSHIP WANTED FOR SUMMER 88

Auli Nurmi, an undergraduate student in Finland, is looking for an internship for the summer 1988. Plant production is her major and she is also interested in plant pathology. See Lynne if you want more information.

NEW COURSE OFFERINGS

Entomology 8050 - Insecticides and Their Action - will meet spring quarter MWF, 10-10:45, Hodson Hall. More information regarding this course is posted on the bulletin board.

NEW BOOKLET AVAILABLE IN LIBRARY

Attention Graduate Students: A brochure on, "How to Apply for an Academic Position", is now available in the Agronomy library.

SOILS 8111 COLLOQUIUM

The Soil Science Department will offer a 1 credit colloquium spring quarter on "Modeling Simultaneous Movement of Water, Nutrients, and Pollutants through Soils" which will meet for 1 to 1-1/2 hours per week. The first meeting is tentatively scheduled for Tuesday, March 29, from noon to 1 p.m. in 375 Borlaug. See bulletin board for more information.

FURNISHED APARTMENT WANTED

Furnished 2-bedroom apartment or modest home to sublet or rent in the St. Paul Campus area, April 1 to August 20, 1988. Call Robert Shoffner at 624-0715 or 645-1373.

THANK YOU

Delane Welsch, Assistant Dean for International Agricultural Programs, sent a note of thanks to faculty and support staff who contributed to the successful presentation to the Rwandan visitors last week. - Orvin Burnside

FILM ON SUSTAINABLE AG. IN ENGLAND

The film discussion series, "Only One Earth...Where to From Here", will present, The Muck and the Mystery Man, Wednesday, March 2 at 12 noon in the SPSC. This 30-minute film discusses aspects of sustainable agriculture in England.

PC-BASED TEACHING IDEA SESSION

Dr. William Graves, Univ. of North Carolina at Chapel Hill, will be visiting in the Alderman Hall computer lab on March 2, from 9:30-11:30 a.m. to share ideas on PC-based teaching and learning software. Dr. Graves is on leave and participating in IBM Academic Information Systems Division's Consulting Scholars Program. See bulletin board for more information.

WELCOME NEW PEOPLE

Please welcome the following new people to our Department:

Mary Dies has joined the office staff as a Word Processing Specialist working with the USDA-ARS faculty. Mary is originally from Laramie, Wyoming.

Song Joong Yun has joined Dr. David Somers project as a Ph.D. student. He is from Korea.

Please welcome these new members of our department.

DR. GORDON MARTEN ON LEAVE IN WASHINGTON

Dr. Gordon Marten will be Acting National Program Leader for Forage and Pasture, USDA-ARS, Beltsville, from March 1 to May 31. Dr. Gary Heichel will be Acting Research Leader of the Plant Science Unit during that time.

NEW PHONE NUMBER

Please add this phone number to your list. LeEtta Jarvis, 236 Borlaug, 5-4233. LeEtta works with Donald Wyse and Bill Koskinen on the Water Quality Project.

CSRS COMPETITIVE RESEARCH GRANTS

CSRS competitive research grants program for fiscal year 1988 are being accepted. The proposals must be postmarked by April 4, 1988. See Lynne for applications and more information.

COOPERATIVE RESEARCH ON WATER QUALITY

The steering committee for the Center for Agricultural Impacts on Water Quality encourages anyone with an interest in working on interdisciplinary projects in water quality to contact a member of the steering committee. They will be preparing grant proposals this winter. Members of the committee include: Jim Anderson - Soils Dept.; Bill Easter - Ag. Econ.; Bill Koskinen - Soils Dept.; Gary Malzer - Soils Dept.; John Nieber - Ag. Engineering; Gyles Randall - So. Exp. Stn.; Don Wyse - Agron. Dept. Check the bulletin board for more information about the research through the Center.

CALL FOR PROPOSALS FOR REX

Research Explorations (REX), an innovative program in Extension Classes, offers faculty conducting research the opportunity to involve interested adult volunteers in research lab and field work. Because volunteers pay for their participation, a modest stipend goes to the research project. Research ideas are now being sought for 1988-89. If you are interested check the bulletin outside 411 Borlaug Hall for more information or call Clair Walter-Marchetti (624-9345).

WINTER QUARTER FACULTY ASSEMBLY

A College of Agriculture, Faculty Assembly, is scheduled for Wednesday, March 2, from 3-5 p.m. in B-45 COB.

POSITION ANNOUNCEMENTS

- Weed Scientist, Asst. Prof., Agron. Dept., Univ. of Georgia, Athens, GA.
- Asst. Director, Housing Services-Conferences and Operations, Univ. of Minnesota, Minneapolis, MN.
- Asst. Professor in breeding, genetics, & production of Barley in Agronomy, North Dakota State Univ., Fargo, ND.
- Asst. Professor, Soil Chemistry, Univ. of Arkansas, Fayetteville, AR.
- Res. Assoc., Dept. of Plant Sci. (Entomology), South Dakota State Univ., Brookings, SD.
- Fellow in Tropical Crop Production, Hawai'i Institute of Tropical Agriculture & Human Resources, Honolulu, HI.
- Res. Fellow in Remote Sensing, Dept. of Forest Resources, Univ. of Minnesota, St. Paul, MN.
- Summer internship, Bio-technician, Cross Ranch Preserve, Hensler, ND.
- Asst. Professor of Agronomy - Plant Breeding (Soybeans) at Purdue Univ., West Lafayette, IN.
- Res. Associate, Tobacco Physiology, Dept. of Crop Sci., North Carolina State Univ., Raleigh, NC.
- Faculty position, College of Biology & Agriculture and Director of the Ezra Taft Benson Agriculture and Food Inst., Brigham Young Univ., Provo, UT.

CONGRATULATIONS TO SCOTT

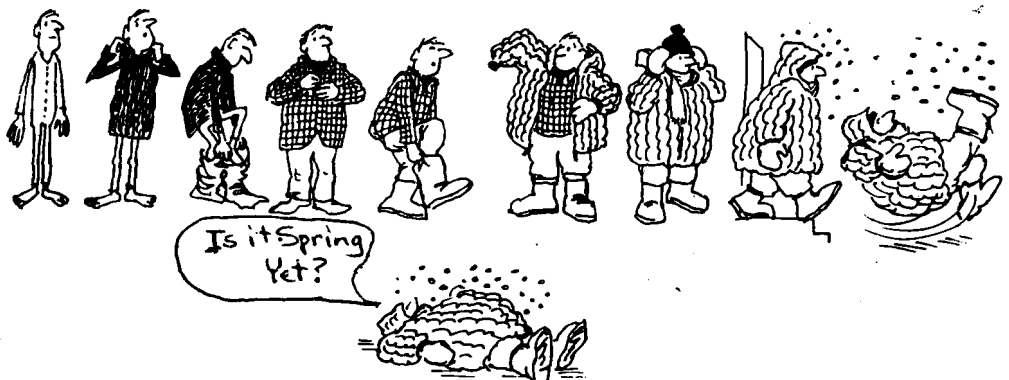
Congratulations to Scott Twary on passing his M.S. Final Exam on Thursday. Scott will continue with Gary Heichel's Forage Physiology Project to earn a Ph.D.

SEMINARS THIS WEEK

Monday: Plant Breeding Seminar
Feb. 29 The occurrence of variation in highly inbred lines.
Mark Hoffbeck, in 306 Borlaug Hall at 4:00 p.m.
Forest Resources Seminar
Directions and Opportunities for Minnesota Forestry.
Gerald A. Rose, Minn. State Forester, in Room 211 Green Hall at 3:00 p.m.
Soil Science Seminar
Carbon metabolism in *Bradyrhizobium japonicum* bacteroids.
Tim McDermott, in 375 Borlaug Hall at 3:00 p.m.
Tuesday: Soil and Water Pollution Seminar
March 1 Changing policies in agriculture as a result of new techniques and new concerns.
William Bolger and others, Director of Agronomic Services, Minn. Dept. of Agriculture, in 375 Borlaug Hall, 6:20-8:20 p.m.
Entomology Seminar
Catchnet function and the distributional ecology of caddisflies.
Don Alstad, in 490 Hodson Hall at 3:00 p.m.
Black History Month Seminar
Recruiting, retaining and mentoring black students: Smoothing the way to a research career.
Dr. Rose M. Brewer, Asst. Prof., Dept. of Afro-American Studies and Sociology, Univ. of Minn. in 2nd floor Conference Room of the North Central Exp. Station at 2:00 p.m.

Wednes: Ecology and Behavioral Biology
March 2 Sociobiology of Bee-eaters: Conflict in Cooperative Society.
Dr. Steven Emlen, Cornell Univ., in Room 313 Zoology at 4:00 p.m.
Soil Science Seminar
Current world weather and climatic conditions as they affect grain production.
Mike McEndrie and John Cawhorn, meteorologists with Cargill Company, in 375 Borlaug Hall at 1:00 p.m.
Agronomy Seminar
Alleopathy in weed control.
Dennis Warnes, West Central Exp. Station, in 306 Borlaug Hall at 4:00 p.m.
Forest Resources Seminar
Plain forestry in the People's Republic of China.
Zhi Xu, in Room 211 Green Hall at 3:00 p.m.

Thurs: Genetics and Cell Biology
March 3 Centrin: A novel centrosome-associated contractile protein.
Jeff Salisbury, Dept. of Developmental Genetics and Anatomy Case Western Reserve, in Room 70 Bioscience at 4:00 p.m.
Plant Physiology
Microtubule arrays in the surface cell layer of the shoot apex of *Hedera helix* L.
Dr. Jan Marc, Dept. of Botany, Univ. of Georgia, in 335 Borlaug Hall at 3:00 p.m.
Friday: Special Seminar
March 4 Ways of knowing. What we know or think we know.
Barbara Warren, in 110 St. Paul Student Center at noon.
Ag. Research Seminar
Clay minerals in the liberal arts.
J.M. Olson, at West Central Exp. Stn., Morris, at 3:45 p.m.



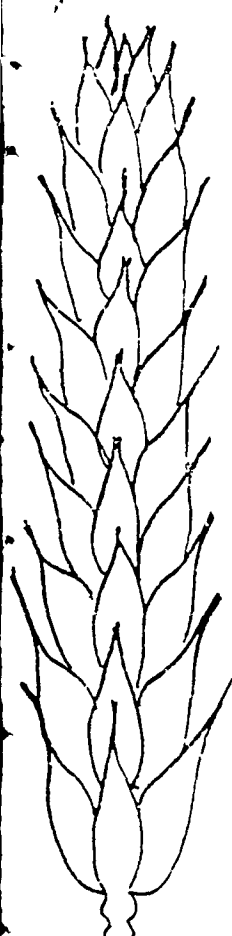
MW 13 Apr 88

agronomy gleanings

March 14

1988

Department of Agronomy and Plant Genetics



THANK YOU

Judy Stuthman was released from the hospital last Thursday after surgery. She sent this note:

Dear Friends in Agronomy,
Deon and I would like to thank you so much for the beautiful plant. The wonderful color was a great touch of "Spring" and certainly a "spirit-lifter" as time went on. The thoughtfulness of the department and it's many individuals at this time was very much appreciated. Thanks again. Love, Judy Stuthman

HOSPITALIZED

Juliana Asafa-Adjei was hospitalized last week for surgery. She is expected home soon. Flowers were sent by the department. Congratulations

to Baffour Asafa-Adjei for passing his oral prelim exam on Friday.

Betty Comstock was also hospitalized last week. Flowers were sent by the Department.

THANK YOU

Dear Agronomy Friends:

Thank you all for the lovely Cineraria plant sent as a message of support following the death of my mother; its blooms are particularly appropriate for this season and our family enjoys them daily.

Duane and Elinor Hsu Schreiver

PHILIP C. HAMM MEMORIAL SCHOLARSHIP

Nominations are now being accepted for the Philip C. Hamm Memorial Scholarship Program, this is a scholarship for graduate students in the plant sciences and related disciplines. It is a non-renewable scholarship of \$1,000. Check the bulletin board for more information or call Keith Wharton's office (624-7792).

FOUND

A pair of men's blue winter gloves was found in the Ford Tempo (departmental car) last week. If they are yours see Lynne in 411 Borlaug Hall.

RESEARCH PROJECT SEMINARS

Three current and one new research project will be reviewed this week on Wednesday, March 16 starting at 12:00 (noon) in 306 Borlaug Hall. The leaders and projects are: 1) Kent Crookston - Crop production and physiology; 2) Jeff Gunsolus - Weed management strategies for crop production systems; 3) Robert Jones - Physiology of corn productivity; 4) Steve Simmons - Physiology of yield in grain crops. See Avis in 411 Borlaug Hall if you would like to read a copy of these projects before the seminars.

SUNRISE ANNUAL REPORT

We have received a copy of the Project Sunrise First Annual Report in the main office. Check with Avis if you would like to see it.

RENTAL CAR INFORMATION

If you are planning a trip and will be renting a car please see Judy. She has information on a new rental agreement between Hertz and the University. You must get a Hertz sticker for your American Express card if you plan to use this company.

NEW DATABASE RESOURCE FOR LITERATURE

The St. Paul Central Library now has Agricola Literature Database set up on an IBM PC for student use. This is a great resource for keeping up on current literature. Stan Dotson

NEW PURCHASING INFORMATION

An update/change sheet, to be used with the Annual Contract Book is available for those who do the purchase ordering for their project. Changes include new addresses, contract terms and additional vendors. Pick up your copy in 408 Borlaug Hall.

COPY SERVICE

Reminder: The U of M has a contract with Beckwith Copy Center. They offer free pick-up and delivery, fast turn-around and high quality reproduction. Price is \$.02 for one-sided copies and \$.018 for two-sided copies, with no minimum requirements. We can't beat these prices so give them a try for larger xerox projects. See me or Judy for further information. Avis Kunkel

SPORTS PAGE

Our very own Agronomes basketball team went to the semifinals this year. Congratulations to Bob Buehler, Rick Chilman, Brent Delzer, Mark Hoffbeck, Shawn Kaeppler, Paul Peterson, Dan Putnam, and Mike Schmitt. I've heard from a reliable source that they were, "The best agronomy team in a long time."

PROPOSALS FOR PROJECT MINNEMAC

Proposals are now being accepted for Phase V of Project MinneMac, a three-year, one million dollar Macintosh equipment grant from Apple, Inc. to the University of Minnesota. The grant began July 1, 1986 and will end June 20, 1989. Faculty are requested to create innovative instructional software. Application deadline is 4:30 p.m. April 29, 1988. See the bulletin board for more details.

CIVIL SERVICE AWARD CEREMONY

A ceremony to present the outstanding civil service award for 1988 and long-evity certificates will be held Wednesday, April 6 starting at 3:00 p.m. in 306 Borlaug Hall.

TRAVEL AND HOSPITALITY SERVICES

Several travel and hospitality services are available to the University Community. Call Flight Facilities (784-1444) to charter a Univ. plane. Call Vehicle Rental (625-3033) to rent a car, truck or van for Univ. business travel. Transit Services (625-7800) will set up bus charters costing less than \$2,000. University Catering (624-7173) can handle box lunches for 20 or a reception for 700.

SPEAK TEST SCHEDULED

Current University policy requires that all nonnative English-speaking teaching assistants must take the SPEAK test, an institutional version of the Test of Spoken English, administered on campus. All TAs or prospective TAs who score below 230 out of 300 must complete at least one quarter of the TA English Program's course in Classroom Communication Skills before being assigned to teaching, tutoring or advising duties. The dates for this exam during spring quarter are Monday, March 14, 9-11 am; Friday, March 18, 9-11 am or 1-4 pm; Monday, March 28, 9-11 am or 1-4 pm; Tuesday, March 29, 9-11 am or 1-4 pm (all in 125 Folwell Hall). Call 624-1503 or 624-4079 to schedule the exam.

TAPE OF PUBLIC HEARING ON WATER QUALITY

We have an audio recording of a public hearing discussing water quality, held on February 8 at the Earle Brown Center. The hearing was called by U.S. Senator Dave Durenberger. See Pat Kessler if you would like to check this tape out of the Agronomy Library.

AGRICULTURE WEEK TELEVISION SPECIAL

National Agriculture Week is March 20-26. Elanco is sponsoring a television special on 135 stations around the country. The title of this 30-minute show is AMERICAN FARMERS. Check your local television listing and mark your calendar.

NEW COURSE IN FORESTRY

The College of Forestry will offer a course on the role of renewable natural resources in developing countries during spring quarter, 1988, from 3-4 pm on Wednesdays. (FR3250 and FR5250 - 2 credits). Contact Dr. Dietmar Rose (624-9711) for more information.

GREETINGS FROM DR. BEHRENS

Dear Friends: We have almost finished our great Australian circle of Sydney, Melbourne, Adelaide, and the Outback and are now on Hayman Isle on the Great Barrier Reef. The weather has been ideal. Australia is a great country. Hayman is a tropical island. We toured a beautiful coral reef this morning in a glass sided submarine. Tomorrow we go to Brisbane and then on to New Zealand to revisit scenic spots and friends. Our best to all of you. Dick and Anne Behrens

FERTILIZER TRAINING PROGRAM

The International Fertilizer Development Center in collaboration with Purdue Univ., is planning to hold a fertilizer sector development training program for graduate students at Muscle Shoals, Alabama, on July 25-August 5, 1988. See the bulletin board for more information.

CATALOG OF EXTENSION MATERIALS

A catalog of all the publications, audiovisual materials, computer software, educational packages, and exhibits available from the Minnesota Extension Service's Distribution Center is now available in the Agronomy Library.

POSITION ANNOUNCEMENTS

- Permanent position at the Southwest Experiment Station in Lamberton, MN, requiring a B.S. or M.S. in crop production with some statistics and computer knowledge. Starting in May or June, 1988. Contact Wally Nelson at (507) 752-7372.
- Post-doc position for someone with experience in fungal pathogens of soybeans, Dept. of Plant Path and Crop Physiology, Louisiana State Univ., Baton Rouge, LA.
- Junior Scientist, Agronomy Research, Northwest Experiment Station at Crookston, MN. Contact John Wiersma.
- Assistant Agronomist/Assistant Experiment Station Specialist, M.S. preferred, North Dakota State University, Fargo, ND.
- Asst./Assoc. Professor (Extension/Research Forage Agronomist, Univ. of Wisconsin-Madison, Department of Agronomy, Madison, WI.
- Field representative for large national vegetable company. Contact Agro Quality Search, Inc. (employment agency).
- Asst. Professor of Weed Science, Washington State Univ., Pullman, WA.
- Asst. Professor of Weed Science - Agronomic Crops - Univ. of Georgia, Athens, GA.
- Cooperative Extension Service Agricultural Agent, Univ. of Connecticut, Storrs, CT.
- Attention Faculty: Senior Agricultural Scientist (Visiting Professor) to work on an assessment of future directions and trends in ag. science and technology on a worldwide basis, Ag. Science and Technology, BIAFAD (Board for Int'l. Food and Agricultural Development), Washington, D.C.
- Farm Advisor-Plant Science, Univ. of California, Berkeley, CA.
- Geneticist (Plants), USDA-ARS, Germplasm Resources Unit, Geneva, NY.
- Dept. Head, Department of Agriculture, Prairie View A&M University, Prairie View, TX.
- Division Dean - Agriculture and Natural Resources, State University of New York, Cobleskill, NY.
- Dean for Agricultural Research and Director of Nebraska Agricultural Experiment Station, Lincoln, NE.
- Associate Director of Cooperative Extension Service, Kansas State Univ., Manhattan, KS.

ACADEMIC SEMINAR

The Dept. of Agronomy and Plant Genetics along with the Monsanto Agricultural Company will sponsor an all-day academic seminar on Thursday, March 17, 1988 in 306 Borlaug Hall. Check the bulletin board for more information

ALUMNI DAY ON CAMPUS

The Minnesota Alumni Association is planning an all-day event on the St. Paul Campus for April 23 from 1:00-4:00 p.m. This is not a fund-raising event but a visit by alumni. They are planning displays and tours campus-wide which means we may have visitors during that time to Borlaug Hall and the Department. Mark your calendars and be prepared!!

ANNUAL FARM FAMILY DAY

The Annual Farm Family Recognition Banquet is scheduled for Thursday, March 17 in the North Star Ballroom. This banquet will recognize men and women from throughout Minnesota who have contributed to agriculture and have been actively involved in their communities. Contact Lynette Marten (624-3493) if you have questions.

H.K. HAYES MEMORIAL LECTURE AND AWARD

The Fifteenth Annual H.K. Hayes Memorial Lecture and Hayes Graduate Student Award is scheduled for Wednesday, April 13 in 335 Borlaug Hall at 8:00 p.m. This year's recipient is Beth Schreiber. This year's lecture, to be presented by Will D. Carpenter, Vice President, Technology, Monsanto Agricultural Company, will be "Future of Agricultural Industries and the Environment."

FINALS WEEK

March 14-19 is winter quarter final's week. Spring quarter begins Monday, March 28. Students - HAVE A GREAT SPRING BREAK!!



"I told you it was still too cold to plant the garden."

PARENT-STUDENT UNDERGRADUATE BANQUET

The 16th Annual Parent-Undergraduate Student dinner was a tremendous success. We thank Larry Smith, Vern Cardwell, Jack Goodding, Steve Simmons, Teresa Schoeder, and Pat Kessler for making this recognition dinner meaningful and enjoyable for all. However, we do need more faculty participation in the future to make sure that every undergraduate family is greeted and made to feel welcome. These families are a tremendous support group for us and we want to be sure that they enjoy and learn something from their visit to our department and the campus.

WINNERS AT THE BANQUET

The 1988 William Meyers Outstanding Undergraduate Award was presented to David Pfarr this year at the Agronomy Undergraduate Banquet March 8, 1988. Gary Hauser received the Northrup King and Company Outstanding Junior Award. Congratulations to all undergraduate students who received recognition for participation in various programs, and scholarship award recipients. Thank you to everyone who attended, making this a very enjoyable and successful Agronomy undergraduate dinner!



Back L. to R.: Steve Simmons, David Pfarr, Vern Cardwell
Front L. to R.: John Goodding, Larry Smith



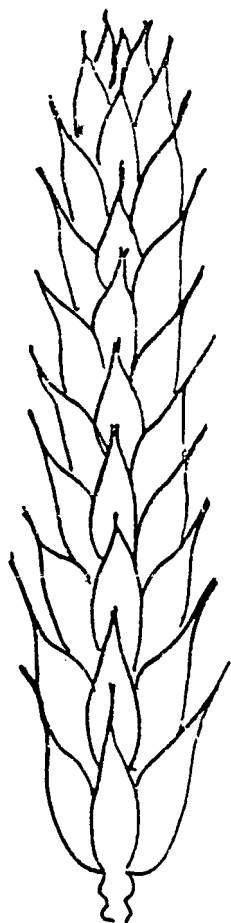
Gary Hauser, Robert Romig (Northrup King representative)

March 18

agronomy gleanings

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Department of Agronomy and Plant Genetics



THANK YOU NOTE

Dear Agronomy Friends: Thank you all for the beautiful bulb plant sent to me at the hospital. It really did cheer and brighten up my stay at the hospital and it is still brightening up our home. We really do appreciate your thoughtfulness and thank you very much for your action.

Julie Asafo-Adjei

THANK YOU NOTE

Bettie and I thank the Department for the lovely cineraria plant you sent while she was in the hospital. She had a serious liver infection but has recovered sufficiently to return home. Thanks again for your concern.

Bettie and Verne Comstock

NEW PESTICIDE RESEARCHER AT CROOKSTON

Dr. Bobby Holder has been appointed to the academic staff at the Northwest Experiment Station at Crookston, MN. Dr. Holder will hold a joint appointment with the Technical College at Crookston and assume responsibility for all pesticide research at the station. He will also become increasingly involved with water quality research in northwest Minnesota. All research related to pesticide use should be coordinated through Dr. Holder and not Dr. Wiersma as has been the practice in the past. His telephone number at the station is (218) 281-6510, ext. 487. His office will be Room 114 of the Ag. Research Center.

PROJECT SUNRISE COMPUTER EXPOSITION

On April 11, 1988, Project Sunrise will host an all-day computer exposition in the North Star Ballroom. This exposition is intended to be both an awareness and resource tool featuring computers as instructional and personal tools. Plan to attend!

NEW RULES

Kenneth Keller has resigned as president of the University of Minnesota. Richard Sauer has been appointed Interim President. C. Eugene Allen has been appointed acting Vice President of the IAFHE. W. Keith Wharton will assume the position of acting Dean of the College of Agriculture. A faculty member from the COA will be asked to serve as Associate Dean of the COA.

MCKNIGHT AWARDS FOR RESEARCH

We have received guidelines for the McKnight Awards for Interdisciplinary Research Projects in Plant Biology. These awards are designed to stimulate research and training in basic plant biology as it relates to agriculture. The awards will be granted to groups of investigators whose programs are anticipated to be of outstanding potential significance. Awards will be for a period of three years with a maximum of \$300,000 per award for each year. Two-page pre-proposals are due May 15, 1988. Check the bulletin board outside 411 Borlaug Hall for more information.

1988-89 FINANCIAL AID PROCESSING DELAYS

Congress has made several changes in regulations governing financial aid programs available to students. The U of M financial aid office is expecting a substantial delay in their ability to send financial aid awards to students for the 1988-89 academic year. Ordinarily financial aid letters are mailed on or around April 15th. This year the letters will be delayed by at least one to two months. Please bring this to the attention of any undergraduate students you may have contact with who are expecting notification of financial aid.

POSITION ANNOUNCEMENTS

- Extension Vegetable Specialist and Asst./Assoc./Full Plant Physiologist in the Dept. of Botany and Plant Sciences, Univ. of California-Riverside.
- Speciality Corn Breeder, Pioneer Hi-Bred Inter'l, Inc., Champaign, IL. Deadline extended to April 20, 1988.

SEMINARS

Wednes. March 23 Plant Physiology
The cellular basis of circadian rhythms, and their involvement in morphogenesis. Dr. Therese Vanden Driessche, Dept. de Biologie Moleculaire, Univ. Libre de Bruxelles in 375 Borlaug Hall at 1:00 p.m.

"There can be no happiness if the things we believe in are different from the things we do." Freya Stark

"Chance favors the prepared mind." Louis Pasteur

March 28

agronomy gleanings

1988

Department of Agronomy and Plant Genetics

AGRONOMY FISHING TRIP

The 1988 Agronomy Fishing Trip is scheduled for the weekend of June 24-26 at Cedar Springs Lodge on Leech Lake (about 200 miles north of the Twin Cities). This year Doug and Sue Miller are in charge of the arrangements. The fishing trip is always a lot of fun and the rates at this resort are very reasonable. Check with Sue or Doug to sign up or to get more information.

CONGRATULATIONS HEIDI & SHAWN

Heidi Flewelling and Shawn Kaeppler were married on March 19 out in Maine. Congratulations!!!

CONGRATULATIONS OPENSHAWS

Steve and Leona Openshaw have adopted two children from Korea. They are a brother (18 mos.) and a sister (4 yrs.) and will be called Evan and Olivia. Congratulations!

THANK YOU

Thank you so much for your gifts to help us celebrate our new family. The geraniums were a type we had never seen before, and are absolutely beautiful. It is apparent after two days that Olivia and Evan will adapt quickly, and we look forward to your meeting them soon. Thanks again, Steve and Leona

SURGERY

Harriet Goodding had surgery last week and she is now at home recovering. Flowers were sent by the Department.

HOSPITALIZED

Arnold Steen, a former employee of the Department of Agronomy and Plant Genetics has been hospitalized (Bethesda Hospital) for a heart attack.

DEATH

Ebenhard S. Gandrud, founder of the Gandy Co. in Owatonna, MN, died last Friday. His son, Dale Gandrud, received a M.S. from our Department in 1973 with Robert Andersen.

NEW CIVIL SERVICE RULE BOOKS

Attention Civil Service Personnel: You should have received a new Civil Service Rule Book in your mail box on Friday, March 25. Some of the changes in the new rules book include:

1) You may now use up to two days of sick leave each year for personal health maintenance -exercise programs, smoking clinics, weight loss programs, mental health programs, and other wellness activities. As with sick leave, this time off must be approved by your supervisor.

2) Two weeks of parental leave are now available for either parent at the time of birth or adoption of a child. If you did not receive a book please check in the main office (411 Borlaug) we have some extra copies.

CIVIL SERVICE AWARDS

The award ceremony to present the Outstanding Civil Service Award and the Civil Service Longevity Awards will be held on Wednesday, April 6 in 306 Borlaug Hall at 9:30 a.m. (changed from 3:00 p.m.). Cake and coffee will be served and everyone in the Department is welcome.

M.S. SEMINAR

Sister Esther Nickel will present her M.S. Seminar on Tuesday, March 29 at 1:00 p.m. in 306 Borlaug Hall: "Alfalfa establishment with small grain companion crops differing in morphological characteristics."

FAREWELL COFFEES

We will hold a farewell coffee for Sister Esther Nickel on Thursday, March 31 at 3:00 p.m. in 306 Borlaug Hall.

We will hold a farewell coffee for Mike Anderson on Wednesday, April 20 at 3:00 p.m. in 306 Borlaug Hall. Mike finished his Ph.D. a few weeks ago and is working as a postdoc in John Gronwald's lab.

SUMMER FIELD DAYS

Mark your calendars - the summer field days at the branch stations are scheduled as follows:

- Waseca - June 28
- Lamberton - June 29
- Morris - July 14
- Crookston - July 20
- Grand Rapids - July 21



RESEARCH FUNDING

I visited with the Agricultural Utilization Research Institute Steering Subcommittee of the Greater Minnesota Corporation (GMC) on Thursday and they are interested in funding utilization research in the COA. We are doing considerable utilization research in the department and some of you may find GMC to be an excellent funding source. GMC's recommendations for this first round of research funding proposals must be in the hands of the subcommittee members by April 22, 1988. If you are interested, please check the bulletin board for instructions on preparing and submitting a grant proposal.

Orvin Burnside

FULBRIGHT FACULTY GRANTS

Application packets for Fulbright Faculty Grants for Lecturing and Research Abroad 1989-90 Academic Year will be available April 1988. About 1,000 grants will be available for American scholars under this program. Faculty in all academic ranks, including emeritus, are eligible to apply. Check the bulletin board for more information.

READINGS FOR PROJECT SUNRISE

Readings for the spring ethics seminars sponsored by Project Sunrise and scheduled for Spring Quarter have been put into the department library.

TELECONFERENCE

A national teleconference on, "Building Human Capital" is scheduled for Thursday, March 31, 1988, in the Earle Brown Center, Room 42. Registration and seating begins at 11:00 a.m. The four issues to be discussed are: 1) Facilitating Career Preparation and Transition; 2) Preparing Youth for Responsibility; 3) Developing Leaders; and 4) Renewing Volunteerism. Call Keith Martikainen with the Minn. Extension Service if you are interested in attending or have questions, or check the bulletin board outside 411 Borlaug Hall.

INCREASE IN POSTAGE RATES

Postage rates are set to increase as of April 3, 1988. Postage on first class mail will be \$.25/ounce.

NITROGEN FIXATION GRANTS PROGRAM

The Ag. Experiment Station has received notice of the continuation of the grants program on nitrogen fixation which is supported by AID and CSRS. Funds are anticipated to be awarded for three projects on "Factors Limiting Symbiotic Nitrogen Fixation for Crop Production in Developing Countries". Preproposals are due May 16. Contact Elsa Batista at 625-4211 for information on guidelines and the proposal kit.

NEW BABY

Becky Petro, principal secretary in the Agronomy Extension office, and her husband Scott, are the proud parents of a new baby boy. Benjamin Petro was born Sunday, March 27 at Fairview Hospital (7 lbs. 5 oz.) Flowers were sent by the Department.

STUDENTS ASSISTING STUDENTS

The Learning and Academic Skills Center now offers a program called Students Assisting Students. Undergraduate staff members, experienced in study skills, are available to assist students in such areas as: test-taking strategies, stress management, time management, motivation, or note taking. They can also help students identify learning style and find ways to utilize this style. Stop by 109 Eddy Hall, Monday-Friday, 10:15-3:00, if you would like to get some help in any of these areas.

NEW STUDENT

Please welcome Harold Mickelson to our department. Harold will be working on his M.S. with Donald Rasmusson's Barley Breeding Project. He is from Goodridge, MN, near Thief River Falls and completed the B.S. degree at North Dakota State University.

H.K. HAYES LECTURE AND AWARD

The Fifteenth Annual H.K. Hayes Memorial Lecture and Hayes Graduate Student Award is scheduled for Wednesday, April 13 in 335 Borlaug Hall at 8:00 p.m. This year's recipient is Beth Schreiber. The speaker, Dr. Will D. Carpenter, Vice President of Technology, Monsanto Ag. Company, will discuss "Future of Agricultural Industries and the

SEMINARS

- Monday
March 28** Plant Breeding Seminar
Strategies for increasing the lysine content of cereal grains.
Robert Buehler in 306 Borlaug Hall at 4:00 p.m.
Food Science Seminar
Whey Beverage Technology: the science and the lore.
Dr. Paul Jelen, Dept. of Food Science, Univ. of Alberta, in FScN 15 at 4:00 p.m.
- Tuesday
March 29** Entomology Seminar
Insect respiration: acclimation to low levels of oxygen.
Catherine Loudon, in 490 Hodson Hall at 3:00 p.m.
NC Forest Exp. Station
Species conservation: a growing national forest role.
Jack Wolter, Forest Supervisor, Chequamegon Nat'l Forest, John Probst and Tom Crow from NCFES, in 2nd floor conference room at 2:00 p.m.
Botany Seminar
Energy Farming on Minnesota's Wetlands.
Professor Douglas Pratt, in B-64 Bio Sci. Center at 4:00 p.m.
History of the Life Sciences
Biogeochemistry: Its origins and development.
Eville Gorham, Ph.D. Regents Professor, Ecol. and Botany, in 555 Diehl Hall at 12:15 p.m.
- Wednes.
March 30** Agronomy Special Seminar
Agricultural Scientists at Reluctant Revolutionaries.
Vernon W. Ruttan, Ag. and Applied Econ., in 306 Borlaug Hall at 4:00 p.m.
- Thursday
March 31** Special Seminar
Minority recruitment and retention in Higher Education.
Reginald Wilson, Director of the Office of Minority Concerns, American Council on Education, in Coffman Union Theatre Lecture Hall at 12:00 p.m.

POSITION ANNOUNCEMENTS

- Research Specialist for the Univ. of Arkansas, Pine Tree Station at Colt, AR. Must have B.S. or M.S. in plant or soil sciences.
- Extension Postharvest Horticulturist, Univ. of California-Davis.
- Researcher in weed control, non-tenure track, Southern Illinois Univ., Dept. of Plant and Soil Science. Must have B.S. or M.S. in agronomy or related field, Carbondale, IL.
- Research Assistants for field research, requires B.S. in agriculture or related field, Chevron Chemical Company, Dallas Center, IA.
- Plant Physiologist/Research Agronomist, USDA-ARs, U.S. Water Conservation Lab., Phoenix, Arizona.
- Farm Advisor-Plant Science, Univ. of California-Davis.
- Extension Vegetable Specialist and Asst./Assoc./Full Plant Physiologist in the Dept. of Botany and Plant Sciences, Univ. of California-Riverside.
- Research Assistant in Pesticide Residues, Univ. of Arkansas, Fayetteville, AR.
- Research biologist in the herbicide discovery program, requires a B.S. degree, Dow Chemical Co., Walnut Creek, CA.
- Postdoc - Research Associate, Soil Scientist or Research Agronomist, USDA-ARS, Northern Plains Area, Fort Collins, CO.

WHO ORDERED A BOOK?

Who ordered a book from the bookstore entitled: "Agricultural Sustainability"? Please see Judy Slyter.

CONVOCATION WITH SAUER

A faculty convocation has been set for April 6 at 3:00 p.m. in Northrup Auditorium to give faculty a chance to hear from Interim President Richard Sauer, Regent Lebedoff, and Faculty Consultative Committee chair Phil Shively. Faculty with written questions for Sauer should send them to Shively at 1414 Soc. Sci. Tower, Minneapolis Campus-West Bank.



CHUCKLE Adolescence is an embarrassing time of life. That's when everyone's parents turn stupid simultaneously.

"Tell the committee to get off my case. I'm worrying about the situation as fast as I can."



Boydton

Happy

Easter!

Connect the Jellybeans

Apr. 1, 1988

agronomy gleanings

DIW
3/28/88

Department of Agronomy and Plant Genetics

INTERRUPTION BLDG STEAM SERV.

The steam, heating, and cooling service will be interrupted in all buildings on the St. Paul campus on Saturday, April 30 at 1 a.m. through 12 midnight. Please notify Physical Plant Operations, Juan Bartolomei at 625-4372 if you have any problems.

DISTILLED WATER SHUT OFF

The distilled water will be shut off on Monday, April 4 (all day) in the growth chamber and lab area surrounding the growth chambers in Borlaug Hall.

THANK YOU

Orvin and I would like to express a special thank you for the lovely plant. It came at a time when we needed a ray of sunshine. Everyone in the Department has been so kind. It really means a lot.
Delores and Orvin Burnside

CONGRATULATIONS

Sister Esther Nickel passed her M.S. exam. Congratulations!

PH.D. SEMINAR

Robert Myers will present his Ph.D. final seminar, entitled "An analysis of nitrogen fertilizer and tillage effects on maize physiology, production, and economics," on Friday, April 8, 12-1 p.m. in Borlaug 306.

WELCOME

Please welcome Radisa Gurik and Molly Fernandez. Radisa Gurik is a visiting scientist from Yugoslavia. He will be working with Dr. Barnes until October. Molly Fernandez is a sr. word processing operator in the Extension Office, 217 Agronomy.

AGRONOMY FISHING TRIP

Sign up for this year's fishing trip. The trip is scheduled for June 24-26 at Cedar Springs Lodge on Leech Lake. See Sue Miller for more information.

CIVIL SERVICE AWARDS

The award ceremony to present the Outstanding Civil Service Award and the Civil Service Longevity Awards will be held on Wednesday, April 6 in 306 Borlaug Hall at 9:30 a.m.

H.K. HAYES LECTURE AND AWARD

Please plan to join Dr. Will Carpenter, the 1987-88 Hayes Lecturer, for lunch in Section C of the Student Center Cafeteria on April 13, Wednesday, 12-1. This will immediately follow a roundtable discussion with faculty at 11 a.m. in 306 Borlaug Hall.

REMINDER: The Fifteenth Annual H.K. Hayes Memorial Lecture and Hayes Graduate Student Award is scheduled for Wednesday, April 13 in 335 Borlaug Hall at 8 p.m. This year's recipient is Beth Schreiber. The speaker, Dr. Will D. Carpenter, Vice President of Technology, Monsanto Ag. Company, will discuss "Future of agricultural industries and the environment."

AIRPORT PARKING

The airport is currently constructing more parking spaces. During construction parking will be very troublesome. If you are interested in alternatives, see the bulletin board for a list of places and rates.

CONVOCATION WITH SAUER

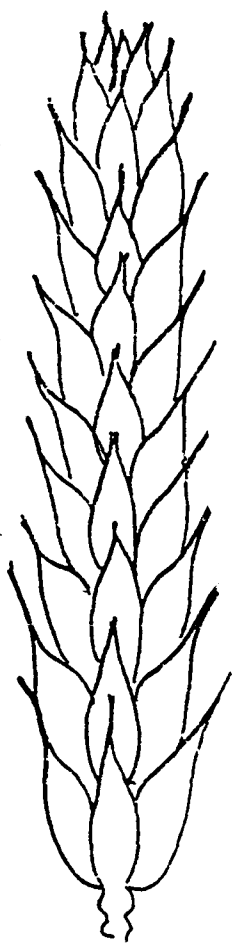
A faculty convocation has been set for April 6 at 3 p.m. in Northrup Auditorium to give faculty a chance to hear from Interim President Richard Sauer, Regent Lebedoff, and Faculty Consultative Committee chair Phil Shively. Faculty with written questions for Sauer should send them to Shively at 1414 Soc. Sci. Tower, Minneapolis Campus-West Bank.

DEATH

Mr. Abdelghani EL BAKKALI died on Wednesday, February 24 in Morocco. He did his coursework in Library Science at Rutgers University.

FRENCH PROGRAM

The ongoing French program on the St. Paul Campus will be offered spring quarter. See the bulletin board for more information.



DEPARTMENTAL CARS

The departmental cars have been moved out of the Crop Science building for the summer months. They are parked in the lot on the West side of Crop Research building.

Tom Warnke

POSITION ANNOUNCEMENTS

- two assistantships (Soil Fertility & Chemistry and Soil Chemistry), Dept. of Plant Science, Univ. of Delaware.
- Postdoctoral in Genetics, Agronomy Dept., Univ. of Missouri, Columbia, MO.
- Specialist, Plant and Soil Science, Univ. of Tennessee, Knoxville, Tenn.
- Plant Breeding Research Assistant, Beatrice, Orville Redenbacher Popcorn Division, Valparaiso, Indiana.
- Research/Teaching position in Plant Genetics, Univ. of Nebraska, Lincoln, NE.
- summer employment, Integrated Pest Management (IPM) Field Scouts, Rutgers Cooperative Extension, New Brunswick, New Jersey.
- Listing of positions in Life Science Research with the USDA.

SEMINARS

- Monday** Discussion Series
April 4 Forest tree disease research in Minnesota.
Dr. Richard J. Zeyen in 491 Borlaug Hall at 3 p.m.
- Soil Science Seminar
What price conservation? The CRP and American conservation policy.
Steve Taff in 375 Borlaug Hall at 3 p.m.
- Plant Breeding Seminar
Recurrent selection in self-pollinated crops.
Peter Sallah in 306 Borlaug Hall from 4-5 p.m.
- Food Science Seminar
The great natural (flavor) rip-off.
Dr. Gary Reineccius in FScN 15 at 4 p.m.
- Tuesday** NC Forest Exp. Station
April 5 Landscape design to conserve plants and animals.
Dr. Larry D. Harris in 2nd

SEMINARS CONT.

- Flr. Conference room from 10:30-11:30 a.m.
- History of the Life Sciences
History of nutrition research within agricultural research stations.
Patricia B. Swan, Assoc. Dean Graduate School, in 555 Diehl Hall from 12:15-1:15.
- Univ. Counseling Workshop
Tips on motivation from 2:15-3:00 in 109 Eddy Hall.
- Ethics, Values and Public Pol. Agrarianism.
Mike Boehlje and Rolf Sartorius in 306 Agronomy at 3-5 p.m.
- 3 Lectures by Noam Chomsky
Language and mind: a discussion.
Noam Chomsky in 175 Willey Hall at 8 p.m.
- Univ. Counseling Services
Everything you need to know about career resources.
Starts April 5 call 624-3323 or stop by 109 Eddy Hall.
- Wednes.** Ecology & Behav. Biology
April 6 Genetics and nursing behavior in Mexican free-tailed bat maternity colonies.
Dr. Gary F. McCracken in Zoology 313 at 4 p.m.
- 3 Lectures by Noam Chomsky
The role of thought control in a democratic society.
Noam Chomsky in 125-175 Willey at 12:15.
- Thurs.** Univ. Counseling Workshop
April 7 Mastering time in 109 Eddy Hall at 3:15-4:30.
- Genetics and Cell Biology
Analysis of gene expression in cultured mosquito cells.
Dr. Ann Fallon in Room 70 Bioscience Center at 4 p.m.
- Friday** Forest Resources Seminar
April 8 Montana's flathead: biogeochemistry of a river-lake ecosystem.
Jack A. Stanford, Bierman Professor of Ecology and Director, Flathead Lake Biological Station, in St. Paul Student Center Ballroom at 12 noon.

SPECIAL NEWS ITEM!! Avis Kunkel had a bouncing baby boy last night!

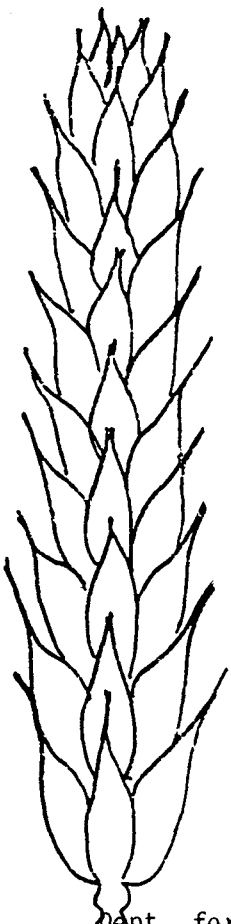
(Ha Ha--HAPPY APRIL FOOL'S!!)

1100
9/10/88

April 15
1988

agronomy gleanings

Department of Agronomy and Plant Genetics



FOUND

A sharp calculator was found in the xerox room across from the main office. If it is yours see Lynne.

THANK YOU

Friends in Agronomy -
Thank you so much for the beautiful geranium plant you sent us in celebration of Benjamin's birth. Benjamin is a beautiful, healthy baby, and seems to have adjusted well to his new home. The three of us are enjoying getting acquainted.

Becky and Scott Petro

THANK YOU

Thank you to the Agronomy Dept. for the lovely flowers you sent.
The Gandrud Family

CIVIL SERVICE WINNERS

Sue Miller was selected as the Outstanding Civil Service person of the year. These people received longevity certificates for 5 years - Marilyn Hole, Joe Spitzmueller, Susan Nielsen, Jeff Roessler, Teresa Schoeder, Eric Ristau, Susan Miller, Kevin Betts Pat Kessler, Gerald Clason; 10 years - Jim Kurle, Doug Swanson; 15 years - Gary Linkert, Chris Donovan, Judy Slyter, Jim Halgerson; 20 years - Jim Stage; 25 years - Don Ralston, Bob Peterson, Don Westerberg; 30 years - Perry Becklin. Congratulations to everyone!!!

ELECTIONS

The Graduate Student Association held an election on April 8 with the following results: Bob Buehler - President; Brent Delzer - Vice President; Shawn Kaepler - Secretary; Mark Hoffbeck - Treasurer. Congratulations to these people.

COUNSELING SERVICES

University Counseling services is offering many support groups this spring. See the bulletin board outside the main office for more information.

REVIEW SESSIONS

Faculty don't forget to schedule a review session with Dr. Burnside within the next few weeks.

FAREWELL COFFEES

We have two farewell coffees scheduled for Wednesday, April 20. Jim Connelly at 9:30 a.m. in 306 Borlaug Hall. Jim will be starting a new job in New Jersey. Mike Anderson at 3:00 p.m. in 306 Borlaug. Mike is not really leaving but he has completed his Ph.D. and is working on a post doc with John Gronwald.

ALUMNI DAY

Alumni day on campus is April 23, 1988. There may be people coming through Borlaug Hall.

SA PROPOSAL GUIDELINES

Guidelines for submitting proposals for Sustainable Agricultural projects are available from the Lisa in 411 Borlaug Hall or see Kent Crookston.

ANNUAL RETIREMENT LUNCHEON

The annual retirement luncheon honoring civil service, field staff, and specialists retiring from positions on the St. Paul Campus will be held in the Earle Brown Center Tuesday, May 10 at 12:00 noon. The cost of tickets is \$3.00 and they must be ordered before Wednesday, May 4. Avis will pick up tickets for you if you like. Just give her a call or leave a note.

NEW BOOK

Congratulations to Gary Heichel, Donald Barnes, Gordon Marten, Craig Sheaffer, and Carroll Vance on the publication of "Alfalfa and Alfalfa Improvement", a monograph from ASA, CSSA, and SSSA. This book is the result of long hours and hard work and these individuals should be commended for their efforts.

UPDATE ON BRUN POSITION

We received the following note from Keith Wharton's office: Gene Allen and I visited yesterday about the Brun position. It is our decision that you should not proceed with filling this position until we have completed the agreements between the College of Agriculture and the College of Biological Science regarding the proposed plant biology department. This is a unique opportunity for our college and for the Department of Agronomy and Plant Genetics, and we want to be sure that we take full advantage of it.

STEAM, HEATING AND COOLING INTERRUPTION

The date for interruption of steam, heating and cooling service to all buildings on the St. Paul Campus has been changed to Sunday, May 1, 1:00 am through Sunday, May 1, midnight. (The original date set for this was June 4). Please notify Physical Plant Operations, Juan Bartolomei at 625-4372 of any problems with this schedule.

RETIREMENT

Dr. Bill Larson, Head, Soil Science has announced his retirement as of December 30, 1988. He will be missed as an outstanding scientist and administrator.

STUDENTS GO TO WASHINGTON

Several of our graduate students who were recipients of USDA National Needs Graduate Fellowships will be honored in Washington this weekend. Melinda Mitchell, Mark Farnham, and Peggy Egli will be leaving on Saturday.

Mark and Peggy have drafted a letter for graduate students and faculty to sign addressing the new tax on graduate tuition and fellowships. They will deliver the letter when they go to Washington. The letter is at the reception desk in 411 Borlaug Hall if you wish to sign.

PIC ELECTIONS

The Plant Industry Club will hold an election of officers for 1988-89 at their meeting on Tuesday, April 19.

CIVIL SERVICE VACATION/SICK LEAVE CARDS

Attention Civil Service Personnel:
Please report your vacation and sick leave immediately after it is taken. Use separate cards for different months. If you need cards please stop by and see me. Thank you, Avis.

Also, the civil service rules books that you received two weeks ago list several changes in rules. If you would like to see specifically which rules have changed check with Avis and she will give you a list of the significant changes.

CONGRATULATIONS TO MELINDA

Congratulations to Melinda Mitchell on the completion of her M.S. degree on March 28th. The title of Melinda's thesis is "A comparison of anther-derived double-haploid and single seed descent lines in spring wheat". Melinda is now working in the wheat lab with Bob Busch temporarily replacing JoAnne Barbour.

WELCOME TO MIKE LUND

Please welcome Mike Lund to the ranks of the Civil Service Personnel. Mike has joined Steve Openshaw's Corn Breeding project as a Sr. Res. Plot Technician. Mike has worked with the project for several years as an undergraduate.

BOWLING BANQUET

Attention bowlers: The bowling banquet for league bowling will be held on Wednesday, April 20 at the Venetian Inn at 5:30. Its not really a banquet but rather hor d'oeuvres, games and prizes. You will receive more information in the campus mail on Monday or Tuesday. Check with your team captain for ticket information.

THANK YOU

I would like to express my gratitude for receiving the W.M. Meyers Undergraduate Student Award from the Dept. of Agronomy and Plant Genetics. The engraved plaque I received will always remind me of the excellent agronomic education I have received at the University of Minnesota. I believe the faculty and staff in the Department are dedicated to providing a learning atmosphere for undergraduates through instruction, special projects, student activities, and work experiences. The COA and the U of M have also extended many opportunities to develop the skills I will need in my future in agriculture. The experiences I have had in the Agronomy and Plant Genetics major have been enhanced by my fellow students. The students not only have a common interest in agronomy but also in one another. This closeness and concern I have felt from other students has also made my studies at the U of M very enjoyable. In many ways my fellow students have emulated the qualities of the late W.M. Meyers and are also very deserving of this award.

Sincerely, David G. Pfarr

MOVED

Gene Allen has moved to 201 Coffey Hall, phone 624-4777. Keith Wharton, Acting Dean will stay in his current office, 277 Coffey Hall, phone 4-7792. Laurie Hayes, Acting Assistant Dean is also in 277 Coffey, phone 624-5387.

TRAVELING TO MOROCCO

Craig Sheaffer will be in Morocco April 15-29. Ervin Oelke will be going to Morocco May 4-17.

SEMINARS

Monday

April 18

Food Science Seminar
Characterization of the attachment of *Pseudomonas fragi* to inert surfaces.
Paula Herald in Room 15 FScN at 4:00 p.m.

Plant Plant Discussion
Dr. Carol E. Windels in 491 Borlaug Hall at 3:00 p.m.

Soil Science Department
Rational economic crop yields: Concepts and Perspective.
Robert Munson in 375 Borlaug Hall at 3:00 p.m.

Tuesday
April 19

Botany Seminar
The plastome mutator of *Oenothera*.
Dr. Barbara Sears in Room 64 Bio Sci at 4:00.

Entomology Seminar
Population Science: Dunography and Ecology.
James Vaupel, Humphrey Institute and Univer. Center for Population Analysis and Policy, in 490 Hodson Hall at 3:00 p.m.

History of the Life Sciences
Ideas and Ideology: The Cognitivist Revolution Against Behaviorism.
C. Wade Savage in 555 Diehl Hall at 12:15 p.m.

Ethics, Values and Public Policy
The Regulation of Biotechnology.
Philip Regal and Rolf Sartorius in 306 Agronomy at 3:00 p.m.

Wednes.
April 20

Ecology and Behavioral Biology
Climate now and then.
Dr. Herb Wright, in 313 Zoology at 4:00 p.m.

Soil Science Seminar
Soil analysis to crop growth modeling for agrotechnology transfer.
Dr. Aurelio Briones, Univ. of Philippines at Los Banos, in 375 Borlaug Hall at 1:00 p.m.

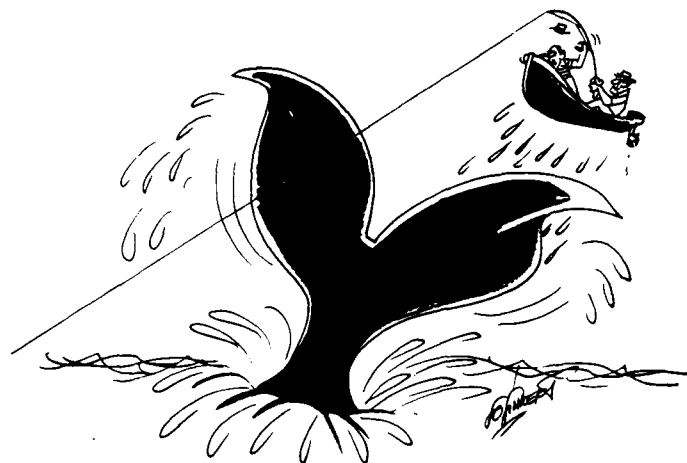
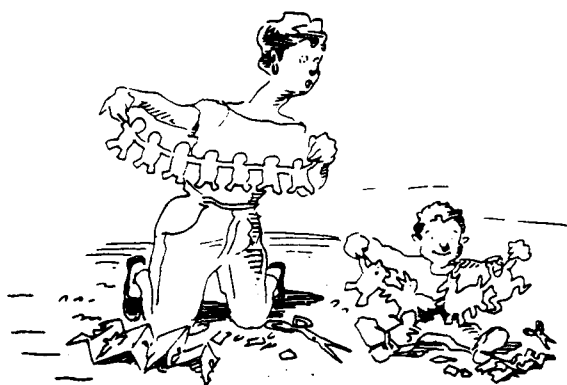
Thurs.
April 21

Genetics and Cell Biology
Structure and function of *E. coli* trp repressor.
Phillip Youderian, Dept. of Biol. Sciences, Univ. of S. Califi., in Room 70 Bio Sci at 4:00 p.m.

Special Seminar
Institutional Reorganization of Agricultural Research in Uruguay.
Dr. Armando Rabuffetti, Director General for Research and Technology Transfer in Uruguay, in 306 Borlaug Hal at 4:00 p.m.

• Many of us spend half our time wishing for things we could have if we didn't spend half our time wishing.
-Alexander Woolcott (1887-1943)

• Every time a man smiles, and much more so when he laughs, it adds something to his fragment of life.
-Lawrence Sterne (1713-68)



"Give him more line, Harry!"

CHILLERS TO BE STARTED

Absorption chillers for the Borlaug Hall air conditioning system will be started, temperatures requiring, on April 22, 1988. This date is tentative. If you have any questions please contact Marty Gerads at 4-2288.

CONTRIBUTIONS

Elmer Heyne, Ph.D. from our department in 1952, has contributed \$500.00 to the Department which will be put toward the H.K. Hayes Memorial Fund.

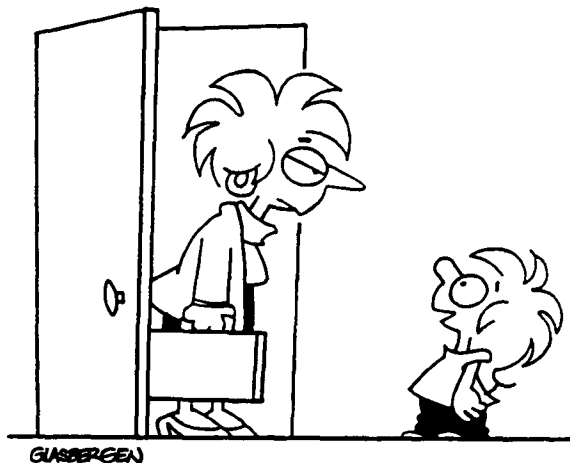
Ernest Booth, Ph.D. from our department in 1928, will contribute \$5,000.00 over the next five years toward the faculty chair in plant molecular biology.

NEW POSTAGE RATES ARE IN EFFECT

Pay attention to the information posted on the wall above the mailbags when you apply postage to outgoing mail. The new rates are in effect. First class mail is now \$.25 for the first ounce, \$.20 for the second and subsequent ounces. Also note that the postage rate of letters going to Canada has increased to \$.30. Also air mail rates have increased to \$.45 per half ounce. Post cards are up to \$.15 each. Check the posted sheets for other changes.

NORTH CENTRAL ASA ANNUAL MEETING

The North Central Branch of ASA will hold their Annual Meeting at Purdue University - West Lafayette, Indiana on June 26-28. We have received a few abstract forms for use by graduate students and staff interested in making a paper presentation. The deadline is June 1. Check with Lynne in 411 Borlaug Hall for abstract forms.



GUSSBERG

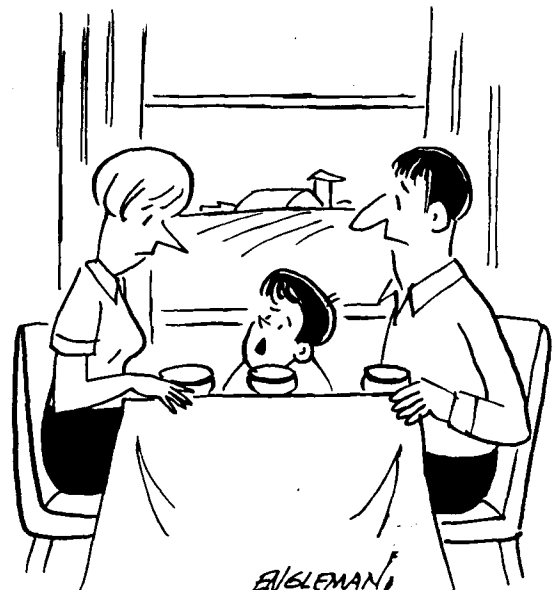
"This morning you said that nothing exciting ever happens at work. Did you find the frog I put in your yogurt?"

POSITION ANNOUNCEMENTS

- Technician in research department for corn breeding, Crow's Hybrid Corn Company, Milford, IL.
- Program Officer, Africa and Middle East Region, Winrock International Institute for Agricultural Development, Morrilton, Arkansas.
- Associate Dean for Research, COA, Associate Director, Ag. Exp. Station, Univ. of Missouri-Columbia, Missouri.
- Affiliate position for Ph.D. in plant biochemistry, physiology or other fields. Research is directed toward the investigation of developmental changes in cell walls of plants, particularly forages, USDA-ARS, Univ. of Wisconsin, Madison, WI.
- Farm Manager, Hort. and LA Dept., Washington State Univ., Pullman, WA.
- Post doc, Soil Scientist/Res. Agronomist/Plant Physiologist, ARS, US Dairy Forage Research Center Cluster Plant Science Research Unit. Contact Michael Russell, USDA-ARS, Soil Science Dept., Univ. of Minn., St. Paul.
- Asst./Assoc. Professor in the Center for Ag. Meteorology and Climatology, Univ. of Nebraska, Lincoln, NE.
- Assistant/Associate Professor, will emphasis on small grains, Soil and Crop Science, Texas A&M Univ., Amarillo Center, TX

MISSING COFFEE POT

Has anyone seen the coffee maker that was in 408 Agronomy last week? It is missing. This pot belongs in 409 Borlaug Hall. If you know where it is please tell Avis.



EULEMAN

"I can't eat a hamburger that I used to call 'Bossy!'"

agronomy gleanings

April 25, 1988
MINN
y April 26

Department of Agronomy and Plant Genetics

FOUND

My collection of lost Sharp calculators is growing, I now have two calculators at my desk that were found in Borlaug Hall. If you have lost one please see Lynne in 411 Borlaug Hall.

ALUMNI DAY

Saturday, April 23 is Alumni Day on the St. Paul Campus. Alumni will be visiting Borlaug Hall in the afternoon from 1-4 p.m. Posters will be on display and walking tours will be given every half hour from the third floor foyer.

CONGRATULATIONS

Congratulations to Robert Jones and David Somers on their promotions. Dr. Jones was promoted from Associate to Full Professor. Dr. Somers was promoted from Assistant to Associate Professor.

THANK YOU NOTE

Thank you for the lovely royal geranium. There were so many blossoms and it is such a pretty color. It will be fun to plant it outside soon. The department has been so generous to both of us and we do appreciate it. Thank you also for the many cards and get-well wishes.
Harriet Goodding

ANNUAL RETIREMENT LUNCHEON

You may order tickets for the annual retirement luncheon on the St. Paul Campus through Avis in 411 Borlaug Hall. The luncheon is scheduled for Tuesday, May 10 at 12:00 noon. The cost is \$3.00.

SENIZ

Jim Sentz will be leaving tomorrow for his new job in Ibadan, Nigeria. He will be on a 2-year assignment with IITA working on technology transfer.



"Will this be an open-disk test?"

STATE FFA CONVENTION

The 1988 State FFA Convention will be held on campus starting Sunday, April 24 through Tuesday, April 26. About 2,700 FFA members are expected. Your cooperation in assisting to host these FFA members and their advisers will be greatly appreciated.

CONGRATULATIONS TO CHRIS ZINSELMIEER

Chris Zinselmeier received first place in the Graduate Student Paper Contest at the Midwest Regional Plant Physiology meeting in Lake Geneva, Wisconsin, last Friday. Chris is co-advised by Robert Jones and Mark Westgate. Congratulations, Chris.

EMERGENCY RESPONSE TEAM

The Dept. of Emergency Management would like to form some Emergency Response Teams in our Department. People on these teams would receive free training in CPR, First Aid and other emergency management skills as necessary (ie. severe weather response).

They would like to have at least one team in each building. The phone number and location of the people on the team would be posted in several locations in each building. In case of an emergency the person discovering the problem would call 911, then an ERT member. The ERT member would then go and assist the victim for the few minutes it takes for professional help to arrive.

They would like to recruit about 6 to 12 full-time employees from the various offices in Borlaug Hall who would be interested in this training. However, if interest is high they will arrange to train as many employees as we want. The CPR training takes about four hours, the "Critical Minutes" first aid training requires only three hours. Jim Halgerson is our safety contact person in the department. He will try to arrange training in the fall for people who are working in the fields this summer.

Volunteers who successfully complete the training will be certified in CPR and First Aid.

If you are interested in participating please sign up on the sheet posted outside 411 Borlaug Hall or call Lynne at 5-4742 and I will sign you up.

Isn't it miraculous that the same doctor whose writing looks like hen scratchings has the dexterity to perform exquisitely delicate surgery?

ATTENTION CIVIL SERVICE

The Board of Regents has decided that the funds to provide for the Civil Service pay equity adjustments will not come from the funds set aside for Civil Service Pay increases. The Board of Regents and President Sauer received many petitions and letters opposing the original plan and are pleased that the change was possible.

FINAL PH.D. EXAM

Dennis Byron, Ph.D. candidate with Jim Orf's project, will give his Ph.D. final seminar on Friday, April 29 in 306 Borlaug Hall at 2:00 p.m. The title is: "Comparison of three selection procedures for the development of early maturing soybean lines."

DEAN'S LIST

Thirteen undergraduate students from Agronomy made the winter quarter Dean's List. This requires a G.P.A. of 3.7 or better. Congratulations to these students and keep up the good work:

Glenn Anderson	David Reuter
Jeffrey Borgmeier	Kelly Schultz
Gary Hauser	James Stordahl
Joel Holthaus	Gary Suess
Kim Pengelly	Marc Thompson
David Pfarr	Katherine Wagtskjold
Scott Reiland	

NEW ADMINISTRATOR OF ARS

Dr. Ronald Dean Plowman has been appointed as Administrator of the USDA-Agricultural Research Service (ARS) to succeed Terry B. Kinney. Dr. Plowman will assume his duties within the next 60 days. He received his Master's degree in Animal Husbandry from the U of M in 1951 and his Ph.D. in Animal Genetics in 1956.

PIC ELECTIONS

The Plant Industry has now merged with the Soil Conservation Club and will be called the "Gopher Crops and Soils Club". The new club held elections on Tuesday night with the following results:

President - Joel Holthaus
Vice-President - Richard Chilman
Treasurer - Mark Gundmayer
Recording Secretary - Chris Goblirsch
Corresponding Secretary - Rogers Caspers
Crops/Soils Kit Chairman - Eric Spandl
Congratulations to these students!!

Mark your calendars!! The Spring Steak Fry sponsored by the Gopher Crops and Soils Club is scheduled for Tuesday, May 24. More details will be coming later.

CONGRATULATIONS JOY

Joy Borchardt, undergraduate in Agronomy, was selected to attend the National Conference on Undergraduate Research at North Carolina State University in Charlotte, April 20-23. Joy is presenting a seminar on "Agronomic Performance of Dwarf Oats."

POSITION ANNOUNCEMENTS

- Asst. Prof., terrestrial microbial ecology, Dept. of Soil Science, U of M.
- Postdoc position in forage physiology, Dept. of Agronomy, Purdue University, West Lafayette, IN.
- Asst./Associate Professor - plant genetics and breeding at the Research and Extension Center, Amarillo, TX.
- Technician position with Funks Seeds Intl. in Seward, Nebraska.

SEMINARS

**Monday
April 25** Soil Science Seminar
Whither Conservation Tillage?
Padam P. Sharma in 375 Borlaug Hall at 3:00 p.m.

Food Science Seminar
Growth and activity of mesophilic lactic acid bacteria in ultrafiltered milk, whey and their permeates.
Cindy Pesek in FScN 15 at 4:00 p.m.

Plant Pathology Seminar
Diversity in rusts of economic plants.
James V. Groth in 491 Borlaug Hall at 3:00 p.m.

**Tuesday
April 26** Entomology Seminar
Larval mosquitoes as vulnerable prey: Chaoborus predation.
Judy Helgen, Dept. of Biology, St. Olaf College-Northfield, MN, in 490 Hodson Hall at 3:00 p.m.

Botany Seminar
Molecular approaches to meiosis and sporulation in *Saccharomyces cerevisiae*.
Paul T. Magee in Rm. B-64 Bio Science Center at 4:00 p.m.

**Wednes.
April 27** Soil Science Seminar
Properties of peatlands in relation to environmental factors in Minnesota.
David K. Swanson in 375 Borlaug Hall at 2:00 p.m.

Ecology and Behavioral Biology
The Monkey and the fig: A Socratic Dialog.
Dr. Stuart Altmann, Univ. of Chicago, in 313 Zoology at 4:00 p.m.

**Thurs.
April 28** Ethics, Values and Public Policy
Species Preservation
Ralph Helzenthal and Rolf Sartorius in 306 Borlaug Hall at 3:00 p.m.

Genetics and Cell Biology
To differentiate or not to differentiate: That is the question.
Issor Smith, Pub. Health Res. Inst., New York, in Rm 70 Bio Sci Center at 4:00 p.m.

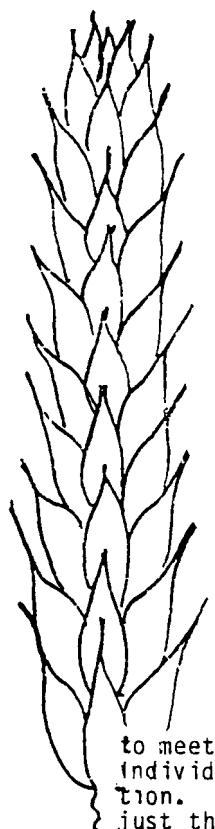
Distinguished faculty seminar
Experiences in soil tillage and structure research.
Dr. William Larson in 375 Borlaug Hall at 11:00 a.m.

1110
2/28/88

April 29
1988

agronomy gleanings

Department of Agronomy and Plant Genetics



MARRIED

Congratulations!! Gary Heichel and Iris Martin were married at St. James Episcopal Church, Washington, D.C. on April 24, 1988. They will be living in Roseville.

THANK YOU NOTE

The two days I spent with all of you at the University of Minnesota were among the most stimulating, exciting and demanding that I have had. I want to thank all of you for the privilege of being with you, the stimulating discussions, and your insights and concerns you shared with me. It is always a pleasure

to meet with a group of outstanding individuals and a first class organization. You and the university represent just that. Will D. Carpenter, Monsanto.

HAMM SCHOLARSHIP WINNERS

Three students from our department have received the Hamm Scholarships this year. The graduate student award will be presented to Virginia Peschke. The two undergraduate awards will be presented to David Pfarr and Jim Stordahl. Congratulations to these students.

The Philip C. Hamm Memorial Lecture will be presented on Monday, May 2, 1988 at 7:30 p.m. in 335 Borlaug Hall. This year's guest lecturer is Dr. Gary Paul Nabhan, Assistant Director, Desert Botanical Gardens, Phoenix, Arizona. He will discuss, "Genetic Erosion of Crop Plants and How to Avert It". Plan to attend!

Dr. Gary Nebhan will be available for appointments with any faculty and students interested in meeting with him 8:30 am to 3:30 p.m., Monday, May 2; and 8:30 am. to 10:00 a.m. Tuesday, May 3. Please call Delores Huebner at 5-8200 to schedule appointments.

ANNUAL RETIREMENT LUNCHEON

Don't forget the St. Paul Campus Annual Retirement Luncheon is Tuesday, May 10 at 12:00 noon in the Earle Brown Center.

SALES TAX NOTE

Sales tax will end July 1 for all higher education systems. It would be a good idea to save big purchases, such as equipment, until after July 1.

ORIENTATION SESSIONS FOR CIVIL SERVICE

Orientation sessions for new civil service staff members will begin next month with a session for employees who started in April. Orientation sessions were a recommendation of the U of M Civil Service Advisory Committee.

VISITING STUDENT FROM NETHERLANDS

Please welcome Erik Hubrechtsen to the Department. He is currently enrolled as a plant breeding student in Wageningen Agricultural University, the Netherlands, and will spend May through August in the Department. Barley will be his host project.

DISTINGUISHED LECTURER

Dr. Gordon C. Marten was honored as the guest speaker at the Fourth Annual Thornton Distinguished Lecture Series on Plant Utilization by Ruminants, at Texas Tech University on Monday, April 25. He discussed, "Past and Future Selection of Forage Grasses to Meet the Nutritional Needs of Ruminants."

FOUND

A pair of red leather women's gloves was found in Room 335 Borlaug Hall. Also, I have a box of miscellaneous gloves and mittens at my desk that were found over the winter. If you have lost something and would like to check this box please stop by my desk in 411 Borlaug. Lynne

LOUISE T. DOSDALL FELLOWSHIP WINNER

Congratulations to Peggy Egli on being selected as a recipient of the Louise T. Dosdall Fellowship for 1988-89. This award is given to women graduate students in the natural and physical sciences who show exceptional promise for a successful career in research.

SYMPOSIUM ON SUSTAINABLE AGRICULTURE

The First Annual Symposium on Ecology and Agriculture will be held on Saturday, April 30, from 8:00 a.m. to 5:30 p.m. starting in Palmer Classroom Building. The opening speaker will be Chuck Davis from the Minnesota State Senate. Several people from our department will be participating: Vern Cardwell, Kent Crookston, Charlotte Eberlein, Frank Forcella, Dan Putnam, Bob Robinson, Steve Simmons and Dennis Warnes.

FILE A COPY OF GRANT PROPOSALS WITH AVIS

Please don't forget to file a copy of any grant application you submit with Avis. She will also give you a BA 23 form to complete and submit with the grant proposal. Please don't forget this step!

MISSING BOOK FROM LIBRARY

Dr. Rasmusson is missing a book that was on reserve in the library. The author is Fehr. Please return this book to the library or to Dr. Rasmusson immediately. Thank you.

NEW BOOK IN LIBRARY

Dr. Ernest Gordon Booth, Ph.D. 1928, has sent a copy of his book, "Touchwood Hills" to be added to the library.

SEMINARS THIS WEEK

Monday Plant Pathology Seminar
May 2 Analytical mycotoxicology using tandem mass spectroscopy. Chester J. Mirocha in 491 Borlaug Hall at 3 p.m.

Forest Resources Seminar
Satellite remote sensing for forest inventory in Minnesota. Brian Huberty in 211 Green Hall at 3 p.m.

Food Science Seminar
Characterizations of photodegradation reactions of major carotenoids in model and food systems. Cindy Pesek in FScN 15 at 4 p.m.

Soil Science Seminar
Artificial recharge of an unconfined aquifer: Effect of turbid water application on infiltration through a test basin. William Schuh in 375 Borlaug Hall at 3 p.m.

Tuesday Botany Seminar
May 3 Mefluciside: a plant growth regulator inducing cold tolerance. Paul E. in Room 64 Bio Science at 4 p.m.

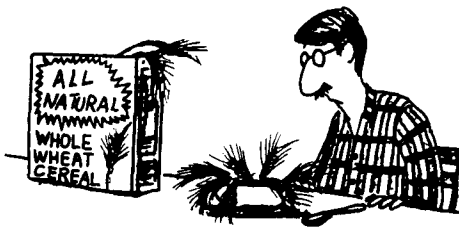
Wednes. Ecology and Behavioral Biology
May 4 Response of subalpine conifers to climate and increasing CO₂. Lisa Graumlich, Univ. of California, Los Angeles, in 202 Zoology at 4 p.m.

Thurs. Soil Science Seminar
May 5 An earthworm population and activity survey of selected agronomic areas of Minnesota. Dennis J. Fuchs in 375 Borlaug at 11 a.m.

No. Central Forest Exp. Station
LYME DISEASE: A tick-borne illness you should know about. Dr. Keith I. Loken in 2nd floor conference room at 2:00 p.m. (Videotape available upon request).

Genetics and Cell Biology
Metamorphosis of an insect hormone system. Karen Mesce in Rm 70 Bio Science at 4:00 p.m.

Ag. and Applied Economics
John Kundert, a candidate for assistant professor in marketing and business management in Ag. Econ. will present a seminar as a part of the interview process, in 230 COB at 11:00 a.m.



GET THE WEATHER REPORT EACH MORNING
Liz Kessler in Agronomy Extension will be accessing the Minnesota Agricultural Weather Forecast from the National Weather Service Mpl/St. Paul, on a daily basis (8:30 a.m.); and the Precipitation and Temperature Report on a weekly basis (Tuesday at 11:00 a.m.) from the EXTEND U computerized bulletin board. She will post these reports on the bulletin board outside 217 Agronomy for anyone to use.

USDA BIOTECH WORKSHOP
The USDA will sponsor a regional biotechnology conference on May 16-18 in Minneapolis at the Mpls/St. Paul Airport Hilton. Dr. Ronald Phillips from our department will be a member of a panel that will discuss, "Creating Precision Plants". Several other people from the U of M will be participants. Everyone is welcome to attend. Check the bulletin board for more information.

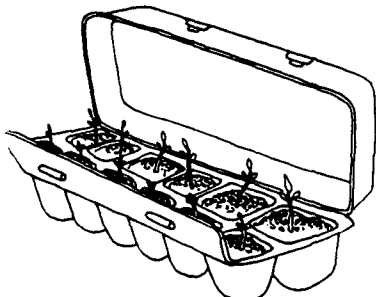
SIGN UP FOR THE EMERGENCY RESPONSE TEAM
Sign up on the bulletin board outside 411 Borlaug Hall to become a member of an Emergency Response Team. This involves free training in CPR and First Aid, provided by the Dept. of Emergency Management. You would then be listed at several locations in your building to be called in case of an emergency. The CPR training is 4 hours and the First Aid training is 3 hours.

REPORT ACCIDENTS
If you are injured at work you must complete an accident report from Judy Slyter in 408 Borlaug within 72 hours after the injury. Also, remember the minimum age for all drivers of University vehicles is 19 years. This is a University regulation and includes students and full-time employees.

- POSITION ANNOUNCEMENTS
- (2 positions) A Weed Physiologist and a Forage Agronomist needed at the Brandon Research Station in Brandon, Manitoba, Canada.
 - Data processing/programming/training specialist (extension/teaching), Dept. of Crop Science, Oregon State Univ., Corvallis, OR.
 - Junior Scientist needed at the Southwest Experiment Station in Lamberton, MN, B.S. required.
 - Plant Physiologist to work on cotton, USDA-ARS, Stoneville, MS.
 - Research Associate/Assistant-Breeding/Pathology/Agronomy, EniChem Americas Inc. in Marmouth Junction, NJ.
 - Lecturer in insect pest management and fruit science. California Polytechnic State Univ. in San Luis Obispo, CA.
 - Cotton Research Specialist, Cotton Branch Station, Univ. of Arkansas, Ag. Exp. Station, Marianna, AR.
 - Research Technologist in Small Grains Breeding, Univ. of Nebraska, Dept. of Agronomy, Lincoln, NE. Desires B.S. or M.S. degree.

TRAVEL GRANTS FOR TRAVEL IN CHINA
The China Center will provide partial travel grants toward international airfare to faculty with official invitations for minimum 2-week lecture and research in the People's Republic of China. Matching funds required. Application deadline for July-September travel is May 13 at 4 p.m. call 624-1002 for information.

SUMMER GUEST HOUSING
If you have visitors to the Department this summer remember the U of M provides short-term residence hall accommodations for summer visitors with University-related business or activities, June 13-Sept. 9. Call 624-3439 to make reservations for Bailey Hall.

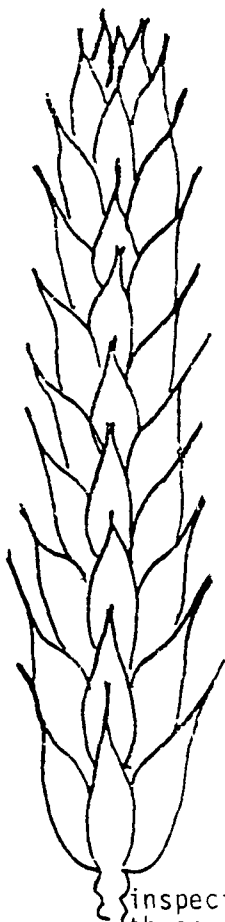


May 6

1988

agronomy gleanings

Department of Agronomy and Plant Genetics



BUILDING VENTILATION

Physical Plant is nearing completion of an inspection of our ventilation system and associated controls. Their personnel noted several discrepancies, most notably; 1) electrical cords protruding through fumehood windows, 2) "socks" that are fitted over supply grills to retard airflow, 3) unauthorized adjustments made to controls affecting VAV boxes in labs, 4) wall thermostats that had been tampered with, and 5) fumehood ventilation controls that were not functioning properly.

During the course of the inspection they have corrected many of these problems. This should alleviate many complaints. Should you encounter ventilation difficulties in any area call and they will evaluate it. If it is a correctable problem they will do the work necessary to put the system in compliance with design specifications. Items falling under #5 above are Physical Plant's responsibility. In most cases items #1-4 are departmental responsibility.

Please inform departmental personnel that modifications made in their individual areas sometimes have an affect on the entire system. They will do their best to cooperate with you to resolve any problems that arise and would appreciate your help in addressing and preventing them.

AWARD

Dr. John A. Goodding received an Award of Merit from Gamma Sigma Delta on April 28, 1988 for "Outstanding Service to Agriculture and the Related Sciences and Arts."

Several students from our department were also initiated into Gamma Sigma Delta: Jeffrey Borgmeier, Brian Bostrom, Barbara Flatmoe, Todd Geselius, Brian Hamilton, Terry Holm, Michael Lund, Melissa Peteler, David Schwartz, Terrance Sonju, Michael Uphoff, Katherine Wagtskjold, and Lorelei Marshall.

SALARY INCREASES FOR 1988-89

Faculty: Each department in the College of Agriculture received a 3.9% allocation of its adjusted faculty base for academic salary increases. The 0.1% differential (between the 4% allocation that the College of Agriculture received) was allocated to departments directly to cover faculty promotion increases. Unlike the past few years, this year the College of Agriculture did not hold a percentage of the salary increase allotments for supplemental use in anticipatory retention increases for highly meritorious faculty. Thus, this year the 3.9% allocation represents the total amount that was made available to each department for faculty salary merit increases. Faculty members will be notified by letter of their salary increase.

Graduate students: Each department in the College of Agriculture received a 2.5% increase based on the number of graduate students listed on the 1987088 recap sheets. This will bring the new 50% research assistant stipend to \$10,600/year.

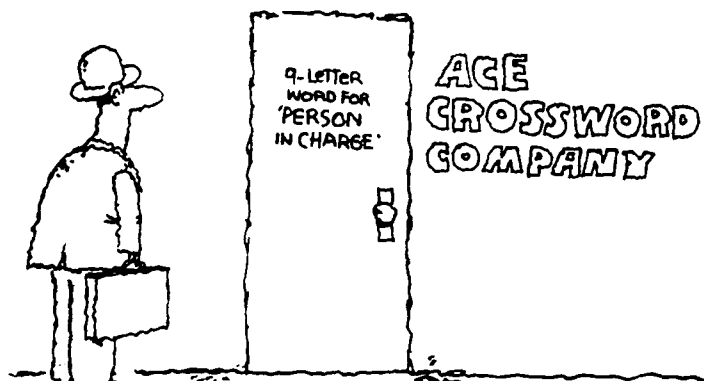
Civil Service: The College of Agriculture received and has allocated a 2.5% wage adjustment for all civil service personnel across-the-board. New salaries are arrived at by working with the hourly figures and will be made available to each individual employee in the next few weeks.

MICROCOMPUTER FAIR

Fourth Annual I.T. Week Microcomputer Fair will be held May 11 and 12. Items and events are posted on the bulletin board.

HOLIDAYS

The University will be closed Memorial Day, May 30 and Independence Day, July 4. Mark your calendars.



BOXES NEEDED

Please save any large boxes (e.g. 2.5 x 2.5 x 2.5 ft or larger). We'll be happy to pick them up. Call the cyto lab at 625-1208. Thanks.

CERAMIC WORK EXHIBITION

Sue Warner from the Grand Avenue Gallery is participating in a teapot-teacup show. Sue made the tile mural in 302 Borlaug Hall. The Grand Avenue Gallery is at 964 Grand Avenue, St. Paul.

CONGRATULATIONS

Daniel and Anamaria Basigalup had a baby boy last week. Congratulations. Flowers were sent by the Department.

ATTENTION

Return green carts immediately after use to 408 BH.

FISHING TRIP

This is your last chance to sign up for the Agronomy Fishing Trip, June 24-26. Camping is available at Cedar Springs Lodge or 2 cabins are available at nearby Fisherman's Resort on Leech Lake. Contact Doug Miller at 625-7067.

SEMINARS THIS WEEK

**Monday
May 9**

Lab. Med. & Pathology
Structure and function of thrombospondin.
Dr. Vishva M. Dixit in Todd Amphitheater at noon.
St. Paul Computing Services
Intro. to SAS/GRAPH. covers the basic features of SAS graphics and how to output high quality plots. 1-3 p.m. Please call 624-7788 for info. on registration.
Soil Science
The 'Great' Philippine Excursion.
S.M.F. Phenice at 3 p.m. in 375 Borlaug.
Plant Pathology
Physiology of specificity in rusts and powdery mildews.
Dr. William R. Bushnell at 3 p.m. in 491 Borlaug.
Food Science
Starch-sugar-water interactions measured by electron spin resonance and differential scanning calorimetry.
Julie Johnson in FScN 15 at 4 p.m.

**Tuesday
May 10**

Agri. Engineering
Butanol-acetone (ABE) fermentation with in-situ separation in an immobilized cell trickle bed reactor.
Mr. Chang Ho Park at 10 a.m. in Room 307 Ag. Engineering.
Entomology
Population science: demography and ecology.
Rolphe Leary in 490 Hodson Hall at 3 p.m.
Botany
Ballistospores, ultrastructure and evolution of the basidiomycetes.
Dr. David McLaughlin in Room 64 Bio Sci. Center at 4 p.m.
Project Sunrise

**Wednes.
May 11**

The status of migrant farm workers.
Rolf Sartorius in 306 Agronomy from 3-5 p.m.
Forest Resources
Forest Science in India: an old discipline--a new face.
Dr. Charles Hatch in Room 211 Green Hall at 3 p.m.
Ecology & Behavioral Biology
Protein electrophoresis and evolution: is the party over?
Dr. Robert Zink in Zoology 313 at 4 p.m.

**Thurs.
May 12**

Molecular Biology Seminar
Gene mapping using RFLP's and chromosome loss in chlamydomonas.
Laura Ranum in 4-218 Owre Hall at 7 p.m.
Genetics and Cell Biology
Cell to cell coupling in smooth muscle.
Mathur Kannan in Rm 70 Bio Sci at 4 p.m.

WORD PROCESSING

Thesis, resumes, and journal articles. 10-year's experience, laser printer. Call Libby Colburn at 544-4896.

MARRIED

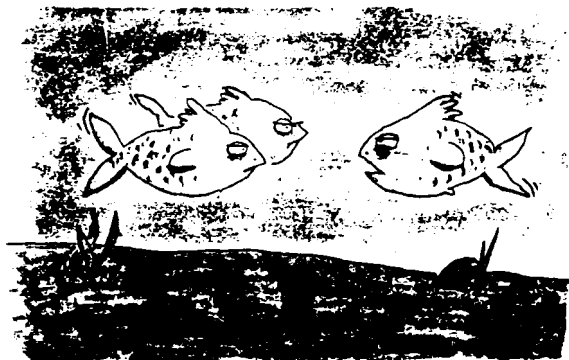
Jeanie Stamm and Steve Katovich were married Saturday, April 30 in Westerville, Ohio. Congratulations.

ANNUAL RETIREMENT LUNCHEON

Don't forget the St. Paul Campus Annual Retirement Luncheon is Tuesday, May 10 at 12 noon in the Earle Brown Center.

POSITION ANNOUNCEMENTS

- Agriculturist trainee for Western Sugar Company, Denver, CO.
- Croplan Agronomist for Cenex Land O'Lakes, Seymour and Sturgeon Bay, WI.
- Assistant Professor, Soil Fertility/Horticulture at the Palmer Research Center, University of Alaska, Fairbanks
- Research Agronomist for SIGCO Research located in Breckenridge, MN.
- Assistant Professor, Molecular Biology of Marine Plants at the Lewes Marine Studies Complex, University of Delaware, Lewes, DE.
- Assistant Professor and Extension Specialist--Soil Fertility, Department of Soil Science, Univ. of Minnesota.



"You may be in love, but how do you plan to support my daughter and four hundred and eighty thousand offspring?"

May 16

agronomy gleanings

1988

Department of Agronomy and Plant Genetics

NEW BABY

Congratulations to Dan and Lara Brotslaw on the birth of a baby boy on May 11. They have named their new son Avi Jonathan Brotslaw. Flowers were sent by the department.

THANK YOU

We want to thank the department for the flowers sent on the arrival of our third baby on April 23. We have named our new son Juan Ignacio. Daniel and Anamaria Basigalup

SPECIAL CONVOCATION

Attention Faculty and Staff: Dr. Richard Sauer will hold a special convocation on Friday, May 20 in 33 McNeal Hall from

3:00-4:30 p.m., to answer questions and share his assessment of the current state of the University.

STEAK FRY

The Gopher Crops and Soils Club will hold their annual spring Student-Staff Steak Fry on May 24th at 6:00 p.m. in Como Park. Plan to attend - Dr. Cardwell cooks great steaks!! Tickets are available from Pat Kessler in 302 Agronomy up until May 23rd. The cost of the tickets is: \$2.00 - Club members; \$3.00 for other students and children over 12; \$4.50 for staff and faculty (Children 12 and under are free). Bring along your tennis shoes and ball gloves and be prepared to play a rousing game of softball.

CONGRATULATIONS WYSE

Donald Wyse was selected by the College of Agriculture Student Board as the 1987-88 Teacher of the Year. He was nominated by a student in the College of Agriculture and the criteria for selection was his willingness to assist students with academics in and out of the classroom.

FACULTY MEETING

A faculty meeting is scheduled for Friday, May 20 in 306 Borlaug Hall at 8:00 a.m.

ENVIRONMENTAL ALTERNATIVES WEEK

MPiRG will hold an Environmental Alternatives Week, May 17-24. Several different speakers will present possible solutions to environmental problems. Check the bulletin board outside 411 Borlaug Hall for a complete schedule.

SUMMER FIELD DAY SCHEDULE

Summer: Waseca - June 28; Lamberton - June 29; Morris - July 14; Crookston - July 20; Grand Rapids - July 21; Staples - August 18; Fall: Morris - Sept. 13; Lamberton - Sept. 14; Waseca - Sept. 15; Weed Tours: Waseca - June 30 at 9:00 am; Crookston - July 12 at 1:00 pm; Fargo - July 13 all day; Water Quality Tour: Rosholt Farm near Westport - August 11 all day 8:30-2:30.

FUME HOODS AND EXHAUST FANS SHUT DOWN

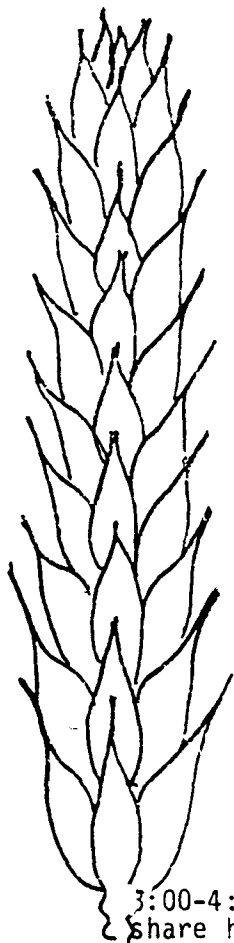
On May 16, 17, 18, 19 and 20 all fume hoods and exhaust fans in Borlaug Hall will be shut down for about 15 minutes each for servicing. If for any reason any one fan can not be stopped at this time, please notify Gene Connelly at 624-6276 and other arrangements will be made.

CLASS SCHEDULES AVAILABLE

Fall Class Schedules and Preliminary Fall and Winter Class Schedules are available in 411 Borlaug Hall.

THANKS

I greatly appreciate the book of letters and the check that Orvin Burnside and Gary Heichel presented me last Thursday. Thanks to all of you who were involved in this effort to convince me that I was retired. I considered using the check for golf clubs, but have decided that I'm not yet ready for such a mild form of exercise. Rather, I'll be getting some power tools for model making and yard work. I would say that it has been a pleasure being associated with all of you in the Department of Agronomy and that I will miss all of you. This would, however, be untrue. Not that it hasn't been a pleasure and that I would miss you, but, in the words of that lovely old song, "how can I miss you if I don't go away?" Bob Andersen



SEMINARS

Monday:
May 16 Soil Science Seminar
Agrisource: The communication and information system for agronomists.
John S. Ahlrichs, Cenex/Land O-Lakes, in 375 Borlaug Hall at 3:00 p.m.
Ph.D. Centenary Symposium
The Microbe in the Real World: Future challenges in microbial ecology and evolution.
All day starting at 10 am in Earle Brown Center.
Food Science Seminar
Development of a tissue culture system from immature strawberry fruits.
Y.C. Albert Hong in FScN 15 at 4:00 p.m.
Plant Pathology
Current approaches to practical problems of plant virus identification and diagnosis.
Behnam E. Lockhart in 491 Borlaug Hall at 3:00 p.m.
Tuesday
May 17 Forest Resources Seminar
Watershed ecosystem studies as baseline for National Parks.
Robert Stottlemeyer, National Park Service, in 211 Green Hall at 3:00 p.m.
Botany Seminar
Getting a handle on microtubule initiation and reorganization in higher plant cells.
Sue Wick in Rm 64 Bio Sci. at 4:00 p.m.
Entomology Seminar
Sampling Colorado potato beetles.
Penny Ives in 490 Hodson Hall at 3:00 p.m.

Wednes.
May 18 Ecology and Behavioral Biology
Tropical temperature during the Pleistocene: Can the marine and terrestrial records be reconciled?
Daniel B. Livingston, Dept. of Zoology, Duke Univ., in 313 Zoology at 4:00 p.m.
Dean's Seminar in Basic Biology
Transposons: Bridges between plant biology and agriculture.
Michael Freeling, Dept. of Genetics, Univ. of California, Berkeley, in 335 Borlaug Hall at 3:30 p.m.
Special Seminar
Weed Research in the Palouse.
Dr. Frank Young, USDA-ARS, Pullman, WA, in 306 Borlaug Hall at 2:30 p.m.
Plant Molecular Biology
Discussion Group
Federal regulations concerning the introduction of genetically engineered plant and microbes.
Dr. Arnold Foudin, USDA, APHIS, in 306 Borlaug Hall at 11:00 a.m.
Thursday
May 19 Genetics and Cell Biology
Role of extracellular ATP in neurotransmission.
Dr. Agnes Nagy, Dept. of Neurology, UCLA, in Rm 70 Bio Sci at 4:00 p.m.

SPECIAL AGRONOMY SEMINAR

Mark your calendars!! On Wednesday, May 25 at 4:00 p.m. Dr. Michael Boehlje, Head of the Dept. of Ag. and Applied Econ. will present a seminar on "Costs and Benefits of Family Farming" in 306 Borlaug Hall.

POSITION ANNOUNCEMENTS

- Sunflower breeding position in France, (Must speak fluent French), position is to be filled within next 9 mos., Johnson Foundation Seeds. Contact Dr. Freeman Johnson at (218) 233-1101 or write to him at 731 Homestead Ave.; Moorhead, MN 56560.
- Project Coordinator for International Ag. Programs, Univ. of Minnesota, St. Paul Campus.
- Post Doc Research Associate in Soil Fertility/Waste Management, Dept. of Crop and Soil Sciences, Michigan State Univ., East Lansing, MI.
- Post Doc in Molecular Genetics, Dept. of Agron., Univ. of Kentucky, Lexington, KY.
- Agronomist, University of Lampung, Indonesia through Univ. of Kentucky.
- Asst. Prof. in irrigated and dryland production systems, Dept. of Agronomy, New Mexico State Univ. in Clovis or Tucumcari, New Mexico.
- Two positions for Ag. Specialist for New Mexico State Univ. Ag. Science Center at Tucumcari and at Clovis, New Mexico.
- Research Associate in Forage Management and Utilization, Texas A&M Univ., Beeville, TX.
- Two positions Maize Genetics Research Technician and Plant Molecular Biology Research Technician, Pioneer Hi-Bred Intn'l, Inc., Johnston, IA.
- Program Director, Ag. Systems, Winrock Intn'l Institute for Ag. Development, Morrilton, Arkansas.
- Research Agronomist - rape seed breeding program, Sigco Research, Breckenridge, MN.

May 23

agronomy gleanings

1988

Department of Agronomy and Plant Genetics

STEAK FRY

The Gopher Crops and Soils Club annual Student-Staff Steak Fry is scheduled for Tuesday, May 24 at 6:00 p.m. in the Como Park picnic grounds. Get your tickets from Pat Kessler in 302 Agronomy today. Cost: \$2.00 club members; \$3.00 other students and children over 12; \$4.50 for staff and faculty (children 12 and under free).

FACULTY ASSEMBLY

A Spring Quarter Faculty Assembly is scheduled for Monday, June 6 in 335 Borlaug Hall from 10:00 am to noon. Submit agenda items to the College of Agriculture, c/o Barb Marsh by Thursday, May 26.

THANK YOU

Thank you for the lovely geranium plant sent by the Department after the birth of our son Avi Jonathan on May 11. Mother and child are both doing well and we are all enjoying getting acquainted and accustomed to one another.

Dan and Lara Brotslaw

CONGRATULATIONS BRIAN

Brian Lang was recently selected to receive a \$2,000 fellowship from the Potash and Phosphate Institute. The Fellowship was based on Brian's scholarship and on his Ph.D. research dealing with N₂ fixation by alfalfa in the fall. The regional representative for the Institute will be here in early June to make a presentation.

CONGRATULATIONS KELLY AND LYNN

Kelly Whiting and Lynn Dahleen both passed their oral prelims on Wednesday, May 18. Congratulations to both.

PICK UP YOUR VERMICULITE

Whoever ordered 4 bags of vermiculite please pick up your order in the xerox room (412 Borlaug Hall).

LUPINE DAY

Add Wednesday, August 17 to your list of field days. This is Lupine Day at the Staples Experiment Station.

JUNE 1-DEADLINE FOR ASA TITLE SUMMARIES

Reminder to Agronomy and Plant Genetics Faculty and Students: June 1 is the deadline for the receipt of title-summary forms, by division program chairs, for posters and papers to be presented at the 1988 ASA annual meetings to be held Nov. 27-Dec. 2 in Anaheim, California. Forms are in the April 1988 issue of Agronomy News.

DEATHS

Karl Lucken, a wheat breeder at North Dakota State University died from liver cancer this past weekend.

Pao-Lo Yu died from cancer on April 25. Dr. Yu received his M.S. degree with Dr. Lambert in 1954 from our Department. He received the Ph.D. from North Carolina State Univ. and was a medical geneticist at the Univ. of Indiana Medical School in Indianapolis.

WELCOME

Please welcome Ryan Hockensmith to the Department. Ryan will be working toward the M.S. in Agronomy with Gordon Marten. He recently finished his B.S. at Penn State University. If you know of anyone looking for a roommate please contact Ryan. His office is 303 Agronomy and the lab is 120 Crops Research.

Please welcome Don Lee to the Department. He is working as a Post-doc with Howard Rines. His office is 502 Borlaug.

HICKS QUARTERLY REPORT

DATE Hicks sent his quarterly report from Morocco. Copies are available from Lynne and one is on file in the Dept. library. Dr. Hicks sent this note along: "We have enjoyed having Don Rasmusson, Kent Crookston, the Sheaffers and the Oelkes visit us and the Institute. Their time went too fast, but it was so good to have friends from the Department visit. Things are going well here. I have just finished teaching a course on extension to fifth year students. Student reaction was excellent; I'm looking forward to doing it again next year. While Erv was here we had a field day on cereals at the Tadla Experiment Farm for 'county agents'. It was the first field day that IAV has had; I think the faculty were surprised with the interest and excitement that the extension workers showed in the activity. I hope it is the start of an annual event."



RETIREMENT RECEPTION FOR RICHARD WIDMER

The Dept. of Horticulture will hold a wine and cheese reception to celebrate the retirement of Richard E. Widmer on Friday, June 3 from 3-5 p.m. in the Cherrywood Room of the St. Paul Dining Center.

RETIREMENT RECEPTION FOR BETTY ROBINETT

A reception honoring the retirement of Dr. Betty Wallace Robinett, Associate Vice President for Academic Affairs, and Professor of Linguistics will be held on Thursday, May 26 from 2-4 p.m. in 238 Morrill Hall.

THANK YOU NOTE

The 2,578 students and 229 advisors, representing 212 chapters of the State FFA, convey thanks and appreciation to the faculty, administration and staff for their contributions to the success of this year's convention. Our special thanks for the positive welcome to the St. Paul Campus, as well as for encouraging the delegates to choose agriculture as a career. We noted a high level of interest and enthusiasm for agriculture by the participants attending the 59th FFA Convention. Eleven of the fourteen state officers who will serve in 1988-89 are enrolled in collegiate agriculture programs.

NEW DEPUTY COMMISSIONER FOR DEPT. OF AG.

Anne Kanten has been appointed as the Deputy Commissioner for the Minnesota Department of Agriculture.

TRAVEL GRANTS FOR FOREIGN STUDENTS

The American Society of Agronomy has been awarded a Short-Term Enrichment Program (Step) grant. This grant is to provide funds for foreign graduate students to attend the annual meetings of the ASA, CSSA, and SSSA in Anaheim, California, Nov. 27-Dec. 2, 1988. Financial assistance will be made to individual foreign graduate students in amounts up to a maximum of \$300 to attend the annual meetings. Application forms and eligibility requirements for recipients are available from Lynne in 411 Borlaug Hall. Application deadline is September 2 and priority will be given to student presenting a paper.



"For heaven's sake, Judy, can't you forget our little argument?"

SEMINARS

Tues.

May 24

/Botany Seminar

Potato spindle tuber viroid and the hepatitis Delta virus: two pathogenic RNAs. Gail Dinter-Gottlieb, Dept. of Biology, Drexel Univ., Philadelphia, in 64 Bio Sci. at 4:00 p.m.

/Soil Science Seminar

A summary of CO₂-climate sensitivity research.

R.T. Wetherald, Princeton, N.J., in 375 Borlaug Hall at 2:00 p.m.

/Panel Discussion

Sustainable development. Panel discussion with Meera Nanda, Int'l. Alliance for Sustainable Ag.; Enrique Gentsch, Minn. Pollution Control Agency; Dietmar Rose, Professor, Forest Resources; Jon Youngdahl, Bread for the World, in Worldspan Room of St. Paul Student Center from noon-1:30 p.m.

Wednes.

May 25

/Special Agronomy Seminar

Costs and Benefits of Family Farming.

Michael Boehlje, Professor and Head of Dept. of Ag. and Applied Econ., in 306 Borlaug Hall at 4:00 p.m.

/Soil Science Seminar

Controlled traffic agriculture- A research perspective from down under.

Jeff Tullberg, Queensland Ag. College, Australia, in S415 Soils Building at 11:00 a.m.

/Soil Science Seminar

A chromatographic study of the interaction of aluminosilicate minerals with organic toxicants.

Uri Mingelgrin, Ag. Research Organization, Bet Dagan, Israel in 375 Borlaug Hall at 1:00 p.m.

/Genetics and Cell Biology

Role of agrobacterium virulence genes in plant cell transformation.

Dr. Anath Das, in Rm 70 Bio Sci at 4:00 p.m.

/Special Soil Science Symposium

Terrestrial Microbial Ecology:

A symposium in honor of Dr. Edwin L. Schmidt will be held May 26, 1988 in 335 Borlaug Hall starting at 8:00 a.m. Dr. Schmidt is retiring from the Soils Department.

/Plant Physiology Seminar

Molecular analysis of mitochondrial DNAs from maize cms-S fertile revertants.

Yunxia Wang, in 365 Borlaug Hall at 3:00 p.m.

Thurs.
May 26

POSITION ANNOUNCEMENTS

- Postdoc Research Associate, USDA-ARS Appalachian Fruit Research Station, molecular biologist, Kearneysville, West Virginia.

June 6

agronomy gleanings

1988

Department of Agronomy and Plant Genetics

SPEEDY RECOVERY

Carroll Vance was in the hospital last week having surgery on his ankle. Flowers were sent by the department.

SIGN UP FOR WRITING ROOMS

If you are planning to use one of the writing rooms in Borlaug Hall (Rooms 124, 126, 128, 130) make sure you sign up for it in 411 Borlaug Hall on the sign-up sheet at the front desk. People are more prone to request the use of these rooms in the warm weather as some offices are not air conditioned.

CONGRATULATIONS GRADUATES

Several of our undergraduate students graduated this year:

Joy Borchardt, Robert Burke, Todd Geselius, Mike Graham, Gary Hauser, Charles Nolting, Melissa Peteler, David Pfarr (with high distinction), Rex Potter, David Schober, Kelly Schultz, David Schwartz, Patricia Sjoquist, Terrance Sonju, Jim Stordahl (with high distinction), Mike Uphoff, Dean Wallin, Danna Wertish, Jim Widmer, John Wolff, Barb Flatmoe, Deneen Walker. Dean Christianson received the Master of Agriculture in Agronomy.

DEATH

Liz Bentsdahl's father died on May 24, 1988. Liz is one of our undergraduate student assistants in the main office.

REFERENCE ON MOROCCAN AGRICULTURE

We have received a photocopy of a manuscript entitled, "The Agricultural Sector in Morocco: A Description," by Paul Crawford and Malcolm Purvis. This reference may be especially useful to anyone traveling to Morocco this year. Check with Lynne in 411 Borlaug Hall if you would like to see this material.

SPRING COA FACULTY ASSEMBLY - JUNE 6

A faculty assembly for COA faculty will be held on Monday, June 6 at 10:00 a.m. in 335 Borlaug Hall. Topics to be discussed: Faculty salaries and retention issues; public relations issues; curriculum revision update; IAFHE update.

HOLIDAYS FOR 1988-89

Mark your calendars, the following University holiday schedule has been approved for Civil Service Staff on the Twin Cities Campus for 1988-89.

Independence Day	- July 4, 1988
Labor Day	- September 5, 1988
Thanksgiving	- November 24, 1988
(floating holiday)	- November 25, 1988
Christmas	- December 26, 1988
(floating holiday)	- December 23, 1988
New Year's	- January 2, 1989
(floating holiday)	- December 30, 1988
Martin Luther King's Birthday	- January 16, 1989
Memorial Day	- May 29, 1989

Personal Holiday

The eleventh holiday has been designated a personal holiday for 1988-89. Check the bulletin board outside 411 Borlaug for the official policy regarding the use of this eleventh holiday.

DEPARTMENTAL POOL VEHICLES

The Department vehicles are used by many people. If we follow these simple rules of courtesy the cars will remain in good and useable condition for everyone:

- 1) If you observe something wrong with one of these vehicles please let Tom Warnke know immediately, in addition to noting it on the trip ticket.
- 2) Please clean the inside of the vehicle if you have gotten it dirty, including dumping your own garbage.
- 3) Leave the gas tank at least half full. Thank you for your cooperation.

MISSING JOURNALS

These journals are missing from the departmental library:

Genome, Vol. 29, Nos. 1 and 2
Weed Science, Vol 35, Nos. 3 and 4
Agronomy Journal, Vol 79, No. 2

We need these journals before we can send the complete volume to the bindery. If you happen to have one of the above journals, please return to Pat Kessler in A302 as soon as possible.

MCCEA ANNUAL MEETING

"Internationalizing Education in Agriculture" is the topic for the annual meeting of the Minnesota Council for Coordinating Education in Agriculture on June 8, 9:00 am. to 2:30 p.m. in the Hubert Humphrey Institute of Public Affairs. The cost is \$15.00.

NEW ASSOC. DEAN IN COLLEGE OF BIOLOGY

Dr. Sally Jorgensen has been appointed Associate Dean for Undergraduate Affairs in the College of Biological Sciences, effective September 1, 1988. Sally is currently Chairman of the Dept. of Veterinary Biology in the College of Veterinary Medicine and will continue her academic appointment with that department. She received her Ph.D. in Biochemistry from the U of M Medical School in 1966.

FACULTY IO - UNDERGRADS /

Through judicious selection of the faculty team with the criteria of staff member, civil service, graduate student, graduate student-to-be, or over 25 (playing skills not questioned) the faculty honor was upheld in the annual staff-undergrad softball game following the Crops and Soils Club Annual Steak Fry, Tuesday, May 24. The club members not only had an excellent steak fry dinner they gave several gifts via overthrows, and chancy plays in the field. The undergrads cried fowl when one of the faculty draft choices, David Pfarr, proceeded to cover all of center and left field with his golden glove. Robin Pfarr was voted the most valuable player for the faculty after her clutch pitching and timely hits. One faculty member was overheard saying "what this team needs are more women." (Submitted by a faculty member - of course!)

FORMER STUDENT HONORED

Owen J. Newlin, Senior Vice President of Pioneer Hi-Bred International, Inc., will be given the Distinguished Achievement Citation by Iowa State University in June. The DAC is Iowa State's premier recognition award for outstanding alumni. He is past president of the American Seed Trade Association and of the American Seed Research Foundation and is currently on the Board of the U.S. Feed Grains Council. Dr. Newlin received the Ph.D. degree from our Department in 1955 and his daughter, Tamara Jean Gregori, received the M.S. degree from our Department in 1979. What other families have two generations with degrees from our Department?

HOW TO DIAL OPERATOR ASSISTED CALLS

The procedure for dialing operator assisted calls changed as of May 17. Operator-assisted calls are defined as long distance person-to-person, collect, third-number, time-and-charges and calling card calls. From now on dial 8+00 to reach an AT&T operator and 8+0 to reach a Northwestern Bell operator only. The difference between NW Bell and AT&T is the long distance calling area. Only a small portion of Minnesota is in the NW Bell calling area. If you need a map of the NW Bell calling area see the Mpls. white pages phonebook. The University uses only AT&T for long distance operated-assisted calls. The procedure for dialing directory assistance calls (411 + area code + 555-1212) remains the same. If you have questions please call 5-6333 to speak with a telecommunications user service representative.

OUTSTANDING ACHIEVEMENT AWARD

Dr. Eric D. Putt, who earned the Ph.D. in Plant Genetics from the U of M in 1950 will receive the U of M Outstanding Achievement Award given by the Regents. Dr. Putt is internationally-known for his plant breeding-genetic research and development of sunflower varieties and hybrids. The date for the award ceremony will be announced later.

SEMINARS

Monday /Soil Science Seminar

June 6 Management of Nitrogen Fertilizer Solutions for Corn in a Ridge Tillage System. Chris Zadak, M.S. Thesis Seminar, in 375 Borlaug Hall at 2:00 p.m.

/Special Plant Pathology Seminar

Physiology of Specificity in Rusts and Powdery Mildews. Dr. William Bushnell in 491 Borlaug Hall at 4:00 p.m.

POSITION ANNOUNCEMENTS

- Post-doctoral position in CIMMYT's Maize Program in Crop Physiology, in Mexico City, Mexico.
- Instructor/Assistant Professor in ornamental horticulture relating to grounds management, The Ohio State University, Wooster, Ohio.
- Extension Agronomist and Assistant or Associate Agronomist of Turfgrass Science, Washington State Univ. Research and Extension Center - Puyallup, WA.
- Post-doctoral position in plant biochemistry, Dept. of Biochemistry, Univ. of Nebraska, Lincoln, NE.
- Three positions in Canada - Research Scientist, Pulse Crop Breeder; Forage Breeder; Forage Crop Physiologist, Agriculture Canada Research Station, Lethbridge, Alberta, Canada.
- Assistant/Associate Professor in plant breeding research/extension - proso millet variety improvement, Univ. of Nebraska, Lincoln, NE.

• No wise man has ever wished to be younger.

- Jonathan Swift
(1667-1745)

• A teacher affects eternity; he can never tell where his influence stops.

- Henry Brooks Adams
(1838-1918)

agronomy gleanings

June 13

1988

Department of Agronomy and Plant Genetics

THANK YOU

The hanging basket that was sent during my recent surgery is certainly beautiful. Thank you for your thoughtfulness and words of encouragement.

Carroll Vance

CONGRATULATIONS

Peggy Egli and Beth Schreiber have both received Doctoral Dissertation Fellowships from the U of M Graduate School. Congratulations to both.

FAREWELL COFFEE

A farewell coffee for Dennis Byron is scheduled for Thursday, June 16 at 3:00 p.m. in 306 Borlaug Hall. Dennis recently completed his Ph.D. with Dr. Orf.

FIRE ALARM TESTING

The fire alarms in Borlaug Hall will be tested on June 21/22, 1988 starting at 10:00 a.m. The fire alarm horns will sound during the test. If there is a problem with this date please contact Martin Gerads at 4-2288 before Friday.

CHRISTENSEN LABORATORY

The Plant Science Building will be renamed the Christensen Laboratory. The building is being named for two prominent scientists in Plant Pathology, J.J. Christensen and Clyde M. Christensen. A ceremony is being planned, more details will be forthcoming.

CHERRYWOOD ROOM

The Cherrywood Room will remain open for lunch through August 12, 11:30 am-1:00 p.m. and will re-open Monday, Sept. 19.

NEW DICTIONARIES IN LIBRARY

The Department has purchased 5 new dictionaries for the Departmental Library: Chinese-English; Arabic-English; Korean-English; Spanish-English; French-English. Please check them out as you would other library books (through Pat Kessler).

FACULTY AND CIVIL SERVICE

The University is considering a new benefits package for faculty and civil service. We have received a copy of the "Flexible Benefits Report" from the Employee Benefits Department. If you would like to see a copy please check with Avis in 411 Borlaug.

SOUTHERN EXPER. STA. 75TH ANNIVERSARY

This year is the Diamond Anniversary of the Southern Experiment Station at Waseca. The station is planning special events for their Field Day. On Monday, June 27th they will host a tour for county agents, ag. instructors, crop consultants, technical college staff, and other ag. professionals as well as a late afternoon orientation tour and steak fry. The regular Field Day will be Tuesday, June 28 which will include tours to some commemorative exhibits illustrating past work as well as current work at the station. Everyone is welcome to attend.

INFORMATION ON DICTAPHONES

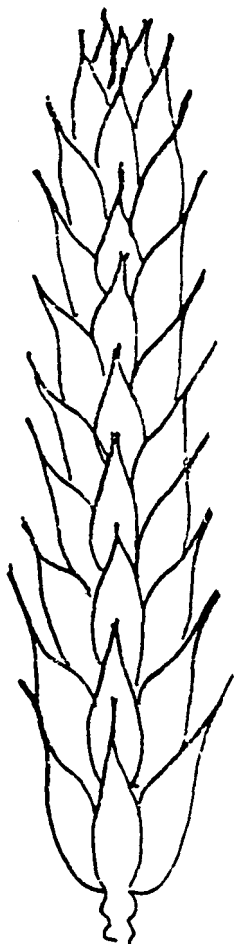
I received some brochures from Dictaphone on their new dictation equipment. If you would like to see a brochure, please let me know. Avis

CONGRATULATIONS

Congratulations to Gary Pomeranke who passed his oral prelims on June 9.

RESEARCH EXPLORATIONS PROGRAM

Research Explorations is a program offered through Continuing Education and Extension which offers faculty researchers the opportunity to engage capable adult volunteers in their research field and lab work. Because volunteers pay to participate, there is a potential stipend for the research project. Research proposals are now being sought for 1989. Deadline is December 2, 1988 but initial inquiries are encouraged now. If submitted soon, proposals may still be planned for fall 1988. Please contact Claire Walter-Marchetti, REX program director at 624-9345 if you have questions.

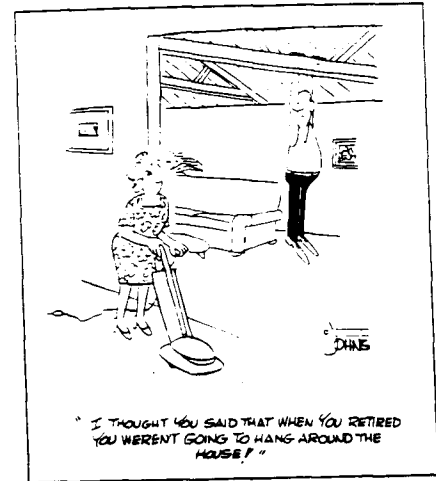


SEMINAR

Monday Plant Pathology
June 20 Current Approaches to Practical Problems of Plant Virus Identification and Diagnosis.
Dr. Benham E. Lockhart in 491 Borlaug Hall at 3:00 p.m.

POSITIONS

- Chairperson of the Agriculture Division of U of M at Crookston, MN.
- Center Director of the Wes Watkins Ag. Research and Extension Center. Oklahoma State Univ., Dept. of Horticulture and Landscape Arch., Stillwater, OK.
- Junior Agronomist (M.S.-level) for two years to assist the Director of the Crop Projection Research Dept. in the National Agricultural Research Institute in Senegal. Contact Steven Clarke from International Ag. Programs in 293 Coffey Hall.
- Lab technician at Jacques Seed Company in Prescott, WI. B.S. in agronomy, horticulture, biochemistry or related field. General lab. experience and experience with electrophoresis techniques. Contact Chris Dotson at (715) 262-3223.



IT WAS A DARK AND STORMY NIGHT . . .

One evening during a particularly violent thunderstorm, a mother was tucking her small boy into bed. She was about to turn off the light when he asked with a tremor in his voice, "Mommy, will you sleep with me tonight?"

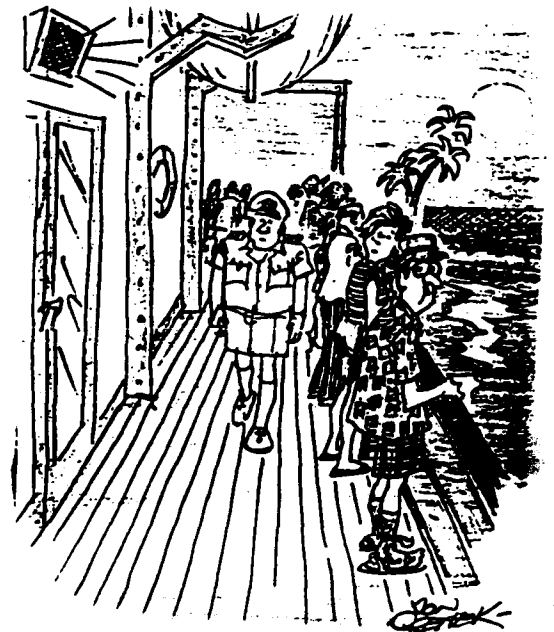
The mother smiled and gave him a reassuring hug. "I can't do that, dear," she explained. "I have to sleep in Daddy's room."

After a moment the child whimpered, "The big sissy!"

Bits & Pieces.



"Happy birthday, Dad. We couldn't afford a present, so we got up early and painted your car for you."



"Attention, please, the owner of a white Cadillac, license number FRX-792:— You left your lights on!"

The bishop's new secretary, a former Pentagon employee, promptly reorganized the diocesan filing system. She labeled one file cabinet "Sacred" and the other "Top Sacred."

agronomy gleanings

MIN
4/21/88
June 17

1988

Department of Agronomy and Plant Genetics

NOTE FROM JUDY

Please bring your delivery receipts for all orders to me at least once a month. This eliminates me calling you to see if we can accept a discount on accelerated payment invoices, also I need to attach delivery receipts to orders and keep them on file.

Thank you - Judy Slyter

OPEN HOUSE AT WASECA STATION

The Southern Experiment Station at Waseca is holding a special Open House on Sunday, June 26 from 1-4 p.m. in celebration of their 75th Anniversary. This would be a good opportunity for people who can not attend the regular

field day on Tuesday, June 28 to go down and visit the station. They will have a tour of special anniversary plots showing crop varieties through the years. They will also have a special livestock tour with demonstrations of animals fed different rations used over the years. Everyone is welcome, so plan to attend.

CONGRATULATIONS KELLY

Congratulations to Kelly Whiting who has been awarded a Doctoral Dissertation Special Grant from the Graduate School.

NEW PHONE NUMBERS

Please note these changes on your phone list: Mary Dies (411 Borlaug Hall) - 624-0763 (only); Don Lee (502 Borlaug Hall) 625-1991.

NEW GRADUATE STUDENTS

Please welcome two new graduate students to our department. Alan Green has joined Donald Rasmusson's barley breeding project. Alan recently completed his B.S. at Iowa State University. His office is 413 Agronomy. James Reysack has joined Deon Stuthman's oat breeding project. Jim recently completed his B.S. at Iowa State University. His office is 306 Agronomy.

ILLNESS

Dr. Lee Snyder, former member of the Department of Agronomy and Plant Genetics, presently a Professor in the Department of Genetics and Cell Biology, has been ill since mid-April and confined to his home. He has undergone major surgery and radiation treatments and his condition is presently much improved. Flowers have been sent by the Department.

DOES ANYONE WANT TO PLAY SOFTBALL??

The summer softball season is upon us. Anyone interested in playing for the department team, the Agronomaniacs, should contact Keith Henjum at 5-7714 or leave a message for Keith with Lynne in 411 Borlaug Hall. The cost will be no more than \$5.00 per person.

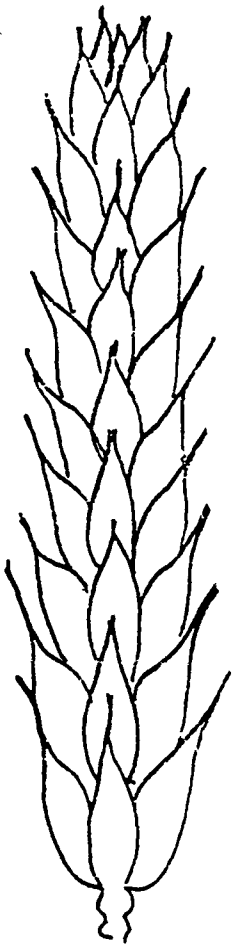
The first game is Tuesday, June 21 at 7:10 p.m. on Bierman Field #9. Anyone who saw the previous memo about the first game's time and location should note that this message reveals a change in game time and location. Please disregard previous information.

We would like to practice sometime before Tuesday. We've thought about practicing Friday, June 17th after work or Monday, June 20 after work or during the noon time. Please let Keith know if and where you can practice. Practice is entirely optional. Keith Henjum.

NEW ASSIGNMENTS IN USDA-ARS-NPS

Please note these changes in ARS administrative assignments:

Deputy Administrator for NPS - Gary Evans; Assoc. Deputy Admin. for NPS (Plants and Natural Resources) - Waldy Klassen; Area Director, Northern Plains Area, Fort Collins - Tom Army; Area Director, Beltsville - Ed Knipling; Center Director, Meat Animal Res. Center, Clay Center Nebraska - Dan Laster.



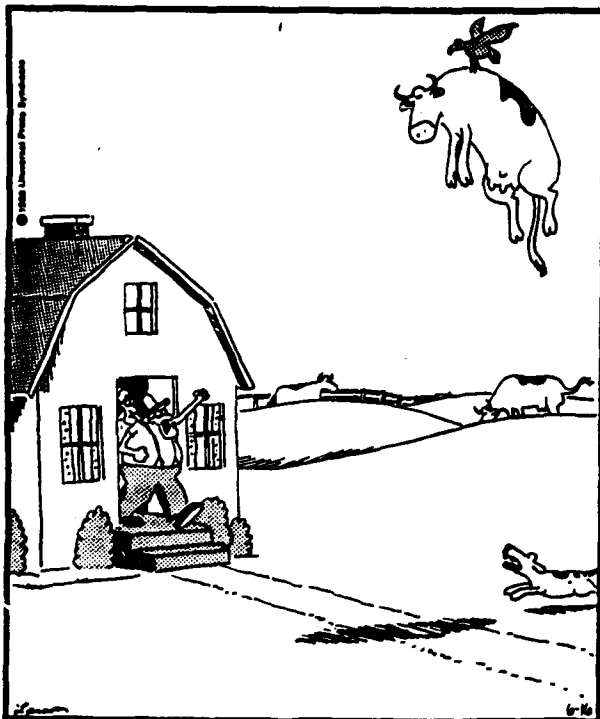
EQUIPMENT DISPOSAL INFORMATION

Attention all project: When equipment is outdated or no longer needed please follow this procedure (do not just throw the equipment away).

For information on equipment disposal, scrapping or acquisition of used equipment call Scott Eggert at the warehouse - 624-2541. Scott is at the warehouse each day, Monday-Friday (8-noon only). He is available to come look at (screen) items and see to their recycling or scrapping, each afternoon. Scott should be called even when items are definitely without value so that those items can be removed from departmental inventory records. The Property Accounting Office will also take screening orders and disposal information at 627-4525. Please allow 3 days for screening of items.

LIBRARY HOURS DURING SUMMER

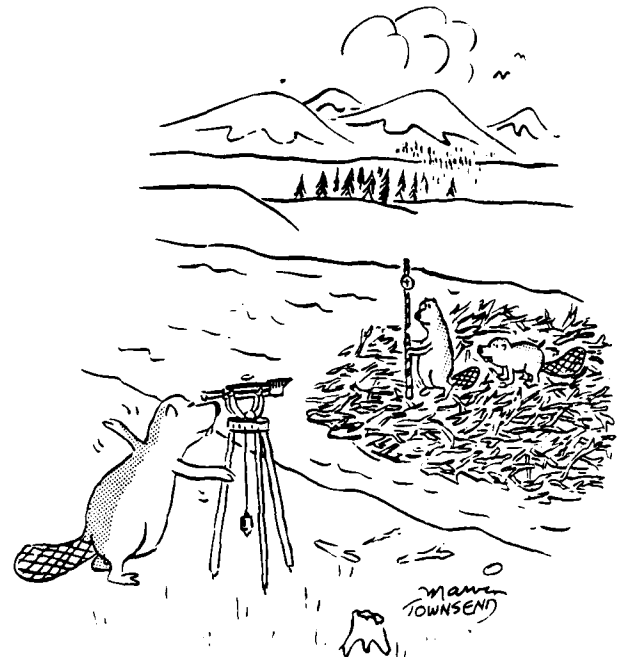
The hours for the St. Paul Campus Library during Summer Session I (June 14-July 20) are Monday-Thursday 8 am-8 pm; Saturday 8 am-6 pm; Sunday 10 am-5 pm. During Summer Session II (July 21 - August 24) the library will be closed on Saturdays and Sundays. During the intersession (Aug. 25 - Sept. 21) the library will be open Monday-Friday 8 am-6 pm, closed Saturdays and Sundays. Check the bulletin board outside 411 Borlaug Hall for additional library information.



"Dandel that cowhawk's back"

POSITION ANNOUNCEMENTS

- Acting Academic Administrator for Graduate School's matriculation and commencement office. Graduate School, Mpl. Campus - contact by June 20.
- Research Associate - Crops and Soils at North Dakota State Univ. Carrington Res. Ext. Center, Alternative Crops and Crop production, Carrington, North Dakota.
- Weed Specialist at Ag. Exp. Station in Malaysia.
- Head. of Agronomy, the Univ. of Georgia Coastal Plain Exp. Station, Tifton, Georgia.
- Assistant instructor for soil science at Univ. of Nebraska, Dept. of Agronomy, Lincoln, NE.
- Plant Stress Physiologist, Asst. or Assoc. Professor, Colorado State Univ., Fort Collins, CO.
- Post-doc in nematology/plant pathology, Dept. of Plant Path and Crop Physiology, Louisiana State Univ., Baton Rouge, LA.
- Asst./Assoc. Professor in burley tobacco production, Dept. of Agronomy, Virginia Polytechnic Institute, Blacksburg, Virginia.
- Asst. County Agent, Coffee County, Alabama, Alabama Cooperative Extension Service, Auburn University, AL.

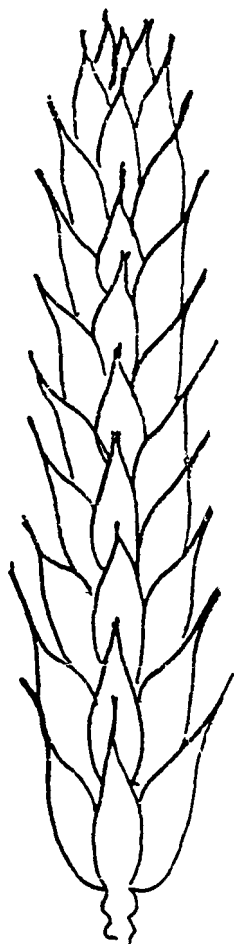


"Personally, I think he's getting too technical!"

June 24

agronomy gleanings 1988

Department of Agronomy and Plant Genetics



CROP SERVICE BUILDING CLEAN-UP

June 27 to July 1 are going to be clean-up days for the Crop Service Building. Please check the dryers and drying racks in the east end of the building. Any samples not having a current "1988" date on them are going to be thrown out. I am going to be checking the dryers, racks and other storage the first week of July. Unless I am contacted beforehand I will discard all samples not properly labeled. Thanks. Tom Warnke (625-3153).

NEW DEPARTMENTAL PICK-UP

We are replacing the brown Ford pickup (#3685) with a light blue Ford Ranger pickup (#3605). The keys for #3605 are in 408 Borlaug and can be signed out as needed.

DR. DAVID JEWELL IS LEAVING

Dr. David Jewell has spent the past six months in Ron Phillips' lab learning some new molecular genetics techniques. He will be returning to CIMMYT in Mexico on July 3. Although no farewell coffee is planned, I thought you might appreciate knowing his scheduled departure date to allow you time to give Dave your personal farewell. Ron Phillips

NOTES FROM JUDY

All travel that takes place before June 30 needs to be turned in by June 29 at 4:30 p.m. Also, Judy will have a closed door policy this summer from 1:00-4:30 everyday until further notice in order to work on year end budgets. If you have a problem or need an S or K number contact Marilyn or see Judy between the hours of 7:45 and 12:00 (noon). Thank you.

AIR CONDITIONING IN 408 AGRONOMY

The air conditioner in 408 Agronomy (conference room) has been cleaned and repaired and should work well now.

RINSING AG. CHEMICAL EQUIPMENT

A water connection has been installed on the north side of the irrigation pump house that is currently serving the fields between Larpenteur and Roselawn, east of Fairview. The gate is on the NW corner and is currently keyed with an E-2.5 padlock. Tom Warnke has keys available. The intent of this water connection is to provide all users of ag. chemicals working in these fields a running water site to rinse the field application equipment and then apply the rinsate to the fields being treated. The application of this rinsate to the field(s) will minimize the accumulation of rinsate in the central facilities which will eventually be built. Users of the fields west of Gortner between Folwell and Larpenteur should rinse their field application equipment at the hose site on the east side of the field building near the intersection of Folwell and Cleveland. If you have questions contact Kent Rees at 626-3904.

N. DAKOTA-MINNESOTA WEED TOUR CANCELLED

The North Dakota-Minnesota Weed Tour originally scheduled for July 12 and 13 at Crookston, MN and Fargo, ND has been cancelled this year due to the extremely hot dry conditions. Although most research has been conducted as planned, they feel that a general plot tour is not warranted. Individuals who are interested in viewing specific research at Fargo, Prosper, or Casselton can obtain a map and plot plans from anyone in the weed science group at NDSU after the first of July.

SEMINAR

Wednes. June 29 North Central Forest Exp. Sta. Fisheries management options versus ecosystem integrity. Dr. Clayton J. Edwards, Fisheries Biologist, Great Lakes Regional Office, Windsor, Ontario, at 2:00 p.m. in 203 NCFES.

RETIREMENT

Dr. Elwood Caldwell will retire from the U of M on October 31, 1988. He was head of Food Science and Nutrition Department for 14 years and recently served part-time as Executive Associate to the Dean of COA. Dr. Caldwell has been appointed Director of Scientific Services of the Am. Association of Cereal Chemists in St. Paul. A retirement reception is being planned for October.

CREDIT CARDS

Phillips credit cards have come in for project vehicles. Tom Warnke needs your old card before you can get a new one. The cards you currently have expire June 30.

POSITION ANNOUNCEMENTS

- Sales representative, Betaseed, Inc., sugarbeet seed company, sales/service rep. for the Red River Valley and Nebraska/Eastern Wyoming areas. Contact Max Turley, National Sales Manager 612-445-8090.
- Expert Systems Specialist - Assistant, Associate or Full Professor, Virginia Polytechnic Institute and State Univ. Blacksburg, Virginia.
- Res. Associate for field plot research on cotton, Louisiana State Univ., Baton Rouge, LA.
- Research Associate for field research with flooded rice culture, Univ. of Arkansas, Stuttgart, Arkansas.
- Asst./Assoc. Professor in Plant Genetics and Breeding - small grains (mainly wheat), Virginia Polytechnic Institute and State Univ., Blacksburg, Virginia.
- Asst./Assoc. Prof. in Soil Science, Dept. of Agronomy, Louisiana State Ag. Exp. Sta., Baton Rouge.

RECYCLING IN BORLAUG HALL

The University of Minnesota is increasing their recycling efforts in Borlaug Hall. They will soon have 15 recycling barrels in this area and will pick them up more often. Some of the barrels will be for aluminum pop cans and newspapers, however most of them will be for office papers. Make an effort to recycle the paper in your area. The Univ. of Minnesota produces 30 tons of garbage every day. Please note they will **not** recycle envelopes, plastic overheads, carbon paper, styro-foam cups, kleenex, cardboard, wrappers f xerox paper, post-it notes, garbage, magazines or brochures. Try not to put these things into the recycling barrels. The Gleanings is recyclable and should be put into the barrel after it has been carefully read. If you have questions about the recycling program call the Recycling Hotline 625-8084.

RETURN GREEN CARTS

Once again we are reminding you to return the green carts to the xerox room (412 Borlaug Hall) as soon as you are done using them. The two carts have been missing all week.

Environmental Film Series

"Only One Earth . . . Where to from Here"

1987 PBS Series - SPSC Lower Level Lounge
Mondays at Noon Free Each Film: 30 min.

June 27 - Valley of Heart's Delight

Santa Clara Valley, once the largest orchard in the world, became known as Silicon Valley when the computer chip industry began flourishing there. Residents could not foresee the water pollution and consequent birth defects this "clean" industry would bring with it.

July 11 - Big Fish, Little Fish

Pacific Islanders have always made their living from the sea. But their lifestyle is now being threatened by large industrial nations, which have depleted fishing waters with high-tech equipment.

July 18 - China's Changing Face

By encouraging the development of small industries in its rural areas, China hopes to prevent a pattern common throughout the developing world - mass migration to the slums of big cities.

July 25 - People of the Desert

For centuries, deserts around the world have been inhabited by nomadic people who have adjusted their lifestyles to the elements. Now, human-induced ecological changes are threatening the survival of these people and causing once life-supporting deserts to become uninhabitable.

August 1 - The Muck and the Mystery Men

To supply the increasing consumer demand for organically grown produce, British farmers are beginning to give up synthetic fertilizers and pesticides in favor of natural compost and pest management.

August 8 - The Monk, the Village, and the Bo Tree

In the remote village of Gahaitya, Sri Lanka, a Buddhist monk has launched a crusade against misuse of the land caused by unsafe farming practices and landlessness of the poor.

Shoe / By Jeff MacNelly



agronomy gleanings

July 1
1988

Department of Agronomy and Plant Genetics

FIELD DAYS

I attended the Waseca and Lamberton field days this week and was very impressed with the number of our faculty involved (even emeriti) and the quality of their presentations. We all appreciate your thorough preparation for these important educational and public relations events. Thank you for a job well done. Orvin Burnside

DEATH

Frederick Mutisya was killed in a car accident in Kenya on June 22 while on official duty. Fred received his Ph.D. with Jon Geadelmann in

1986. If you would like to relay a message to his family I have a telex address at my desk. Lynne

GRADUATE STUDENT SUMMER PICNIC

This year's Graduate Student Picnic will be held on Wednesday, July 13 at Lake Josephine Park. Mark it on your social calendar now and watch for further details next week!

THANK YOU

From late July until December 1987 I was a Visiting Scholar at the U of M, working with Robert Andersen on velvetleaf and also in Carroll Vance's lab learning techniques of enzyme electrophoresis. I am writing to offer my somewhat belated thanks for the hospitality, kindness, and professional development I enjoyed during my period at the University. Should any of my American friends happen to visit Australia, I would be delighted to return the hospitality that was shown to me while I was your guest. Wagga is somewhat off the usual tourist track but involves only a minor detour for anyone travelling between Sydney and Melbourne by car. Sincerely,

Dr. Helen Wood

USDA-ARS, SCIENCE HALL OF FAME

Dr. Edgar E. Hartwig, long time soybean researcher at Stoneville, MS, was inducted into the USDA, ARS, Science Hall of Fame, along with four other scientists, in a ceremony at the National Arboretum on June 21. Plaques honoring each of these men will be on display in the Visitor's Center of the Beltsville Ag. Res. Ctr. at Beltsville, MD. Hartwig's citation reads, "For research in soybean breeding and genetics that has been a major factor in soybeans becoming the second most valuable U.S. crop and particularly for developing cultivars that thrive in the South." Dr. Hartwig is originally from Minnesota.

GRADUATE STUDENT STATUS CERTIFICATION

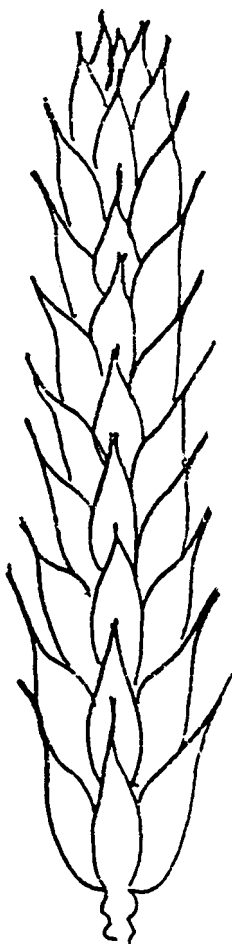
Attention Graduate Students: I have some Graduate Student Status Certification forms available at my desk for anyone who needs one. You will need to complete one of these forms if you want to use the library, Boynton Health Service, Univ. bookstores, etc., during the summer months while you are not taking classes. Lynne

FOAM CORE BOARDS

4 foam core (blue) boards were ordered from Kris Kohn at Art Services. Please call her if you were the person ordering the boards (4-9738). Thanks.

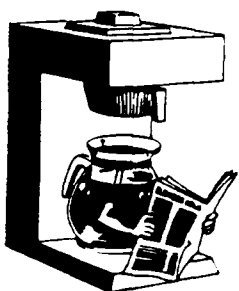
SABBATICAL HOUSING NEEDED

Dr. Lee Anne Chaney, an assistant professor at Whitworth College in Spokane, WA, will be spending a sabbatical leave in the U of M Horticulture Department in the lab of Dr. Peter Ascher, from Sept. 1988 to June 1989. She is interested in housing possibilities for one person for that period of time such as an apartment sublet or house sitting at a reasonable price for a faculty member on leave. Contact Dr. Chaney directly at her home in Spokane (509-467-9044) or call the Horticulture Dept., Dr. Ascher (624-9762) or Margaret Hibberd (624-3232), for more information.



POSITIONS

- Deputy Director General for Research Resources of CIMMYT. Mexico City, Mexico.
- Ag. Extension Specialist, National Program Leader, Range Management, Wasington, D.C.
- Research Associate (Corn Breeding and Genetics), North Carolina State Univ., Raleigh, NC.
- Superintendent, West Side Field Station, Univ. of California, 50 miles west of Fresno, CA.
- Chairman of Horticulture and Crop Science Dept. with tenured Full Professor rank, and Associate Director of the New Jersey Ag. Exp. Sta. for programs in intensive production agriculture, Cook College, Rutgers Univ., New Brunswick, New Jersey.
- Asst./Assoc. Professor of Agronomy to work on plant growth and development of tobacco, Southern Piedmont Ag. Exp. Sta., Virginia Polytechnic Institute and State Univ., Blackstone, Virginia.
- Asst. Professor of Plant Pathology in the College of Natural and Ag. Sciences and Asst. Plant Pathologist in the Ag. Exp. Sta., Univ. of California, Riverside.
- Postdoctoral Research Associate in nutrient cycling/environmental soil chemistry, Oregon State Univ., Dept. of Soil Science, Corvallis, OR.
- Research Plant Physiologist/Research Chemist, USDA-ARS, with an adjunct appointment in the Dept. of Agronomy, at the Univ. of Kentucky, Lexington. Incumbent will conduct research on tobacco and forages.



A bishop advised a politician to go out into the rain and lift his head heavenward. "It will bring a revelation to you," he promised.

The following day the politician told the bishop, "I followed your advice, but no revelation came. I felt like a fool."

"Well, now," said the bishop, "isn't that quite a revelation for the first try?"

FISH TROPHY

Sue and Doug Miller have made a beautiful traveling trophy, out of stained glass and wood, to be awarded to the best fisherman in the Department each year at the annual Agronomy fishing trip. The trophy is on display in 411 Borlaug Hall. This year's winner was Donn Vellekson. Donn will keep the trophy until next year's winner is selected. Thank you to Sue and Doug for all of their time and effort in planning this year's fishing trip. Bev and Mike Durgan won the honor of planning next year's fishing trip. Congratulations.

"My husband and I like the same things," said the veteran wife to the new bride. "Of course, it took him twenty-two years to learn."

•••

A young priest was assigned to his first parish. When the pastor had to go out of town, he left his new assistant a note asking him to order a Christmas sign to be tacked over the door of the church. The priest lost the note, so he sent a hasty wire to the pastor: "Rush copy of motto and dimensions."

A clerk in Western Union got the reply and promptly fainted. It read: "Unto us a child is born. Eight feet long, three feet wide."

•••

Some folks are like Easter eggs — ornamental on the outside and hard-boiled on the inside.

CONGRATULATIONS PAUL

Congratulations to Paul Ernst on winning the Midwest Area Regional ASA graduate student paper award at Purdue University last week.

CONGRATULATIONS VERN & NEAL

Congratulations to Vern Cardwell and Neal Martin on being selected to receive 1988 ASA Fellow Awards. These awards will be presented at the ASA meetings this November in Anaheim, CA.

CONGRATULATIONS RON

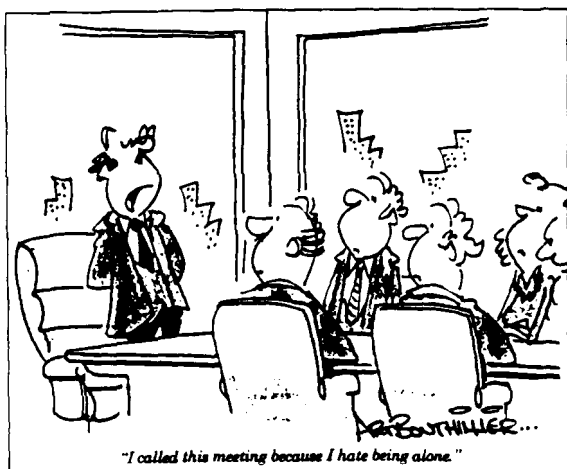
Congratulations to Ronald Phillips on being selected to receive a 1988 Crop Science Research Award. This award will also be presented at the ASA meetings this fall.

WELCOME TO RAYMOND PORTER

Please welcome Dr. Raymond (Ramy) Porter to the Department. Dr. Porter will be working on a post-doc with Robert Stucker studying the reduction of seed shattering in wild rice. He will spend his winters in the Department and the rest of the year at Grand Rapids. Dr. Porter has a Ph.D. from Cornell University and is a native of Texas. Dr. Porter will be officed in 202 Borlaug Hall.

MOVING SALE

Moving Sale: 15' Travel Trailer (with refrigerator, stove and heater) for \$800; a gas dryer in good condition for \$130. Call 625-9747 or 641-1235.



HOUSING OFFICE NEW HOURS

The Division of Off-Campus Housing will have expanded hours for its summer operation in 190 Coffey Hall on the St. Paul Campus. The office will be open Monday-Friday, 8:00 am to 4:15 pm and offers current information about various types of rental housing in the Twin Cities area, listings, maps, free use of telephone and other information.

UNDERGRADS ON DEAN'S LIST

The following undergraduate students from Agronomy made the Dean's list for Spring Quarter 1988: Daniel Anderson, Glenn Anderson, Brian Hamilton, Gary Hauser, Joel Holthaus, David Pfarr, Scott Reiland, David Reuter, Eric Spandl, and Marc Thompson. Congratulations to these outstanding students.

CROOKSTON FIELD DAY CANCELLED

The Crops and Soils Field Day scheduled for Wednesday, July 20, at the Northwest Experiment Station in Crookston has been postponed until early September. An exact date has not been established as the high temperatures and droughty conditions continue to advance maturity. The rescheduled field day will feature soybean, corn, dry edible bean, potato and sugarbeet research as well as tillage effects on moisture conservation and erosion control. Barley harvest has begun. Early crop reports indicate yields of approximately 40% of normal; high protein - 15% and low plumpness of 40-65%. Second crop alfalfa yields in the immediate Crookston area are approximately 20% of normal. Details on the exact date for the rescheduled field day will be announced later. Larry Smith.

"Why is a child who is capable of operating a VCR unable to assemble a peanut butter sandwich?"

NSF PROFESSORSHIPS FOR WOMEN

We have received information on NSF Visiting Professorships for Women. If anyone is interested in applying contact Lynne in 411 Borlaug Hall. Applications must be post-marked by November 15, 1988.

NEW PROGRAM DIRECTOR NEEDED IN RWANDA

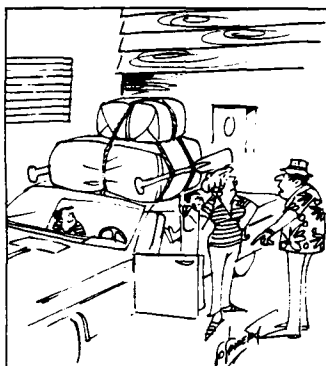
The International Agricultural Programs at the U of M is currently recruiting to fill the position of Program Director of an adaptive researcher project to be based in Butare, Rwanda. The appointee will serve as the primary representative of the U of M to the faculty of the College of Agriculture, National University of Rwanda. Check the bulletin board outside 411 Borlaug Hall for a more complete description of this position.

NEW PROFESSOR IN PLANT PATH

Plant Pathology welcomes Dr. Roger Jones to their department. Dr. Jones has accepted the position of Assistant Professor and Extension Plant Pathologist focusing on disease control in sugar beets, potatoes and small grains. He is currently at Texas A&M University and will start at the U of M on August 1, 1988.

LAMBERTON FIELD DAY - SUCCESS

Many thanks for a job well done under a whole new scheme of doing a Field Day. I believe the day was a real success including the day before. Our turnout was very good with 650 to 700 people in attendance. Thanks for making it a very successful Field Day. We also had a successful research session on Sustainable Agriculture in North Redwood Wednesday evening. Wallace Nelson, Superintendent, Southern Experiment Station at Lamberton.



"You start out, phone me from the next town and tell me what we've forgotten, and I'll catch a bus and meet you."

POSITION ANNOUNCEMENTS

- Plant Science Farm Manager for Univ. of Connecticut Experiment Station in Storrs, CT. Requires M.S. in Agronomy or Horticulture with knowledge in field experiments, farm equipment, and greenhouse management. Contact Dr. D.W. Allinson; Interim Dept. Head; Dept. of Plant Science, Univ. of Conn.; U-67 1376 Storrs Road; Storrs, CT 06268; (203) 486-2924; closing date - July 21, 1988
- Superintendent of Lindcove Field Station, Univ. of California, Oakland, CA.
- Laboratory Technician for soybean research, Virginia State Univ., Petersburg, VA.
- Administrative Fellow, Peace Corp Recruitment, Univ. of Minn., International Ag. Programs, St. Paul, MN.
- Assistant Director, Virginia Ag. Exp. Station, Virginia Polytechnic Institute, Blacksburg, VA.
- Director, Analytical Services Laboratory, College of Agriculture, University of Idaho, Moscow, Idaho.
- Research Associate, Dept. of Plant Pathology, Louisiana Ag. Exp. Station, Baton Rouge, LA.
- Assistant Professor of Ornamental Horticulture and Program Leader Commercial Ornamental Horticulture Industry Program, New York State College of Ag. and Life Sciences, Ithaca, NY.
- Assistant Director, Virginia Ag. Exp. Station, Virginia Polytechnic Institute, Blacksburg, VA.
- Director of Cooperative Extension for University of Idaho, College of Agriculture, Moscow, ID.
- Asst./Assoc. Professor of Water Quality, Agronomy and Soils Dept., Auburn University, Auburn Univ., Alabama.
- Assistant Director, Alabama Ag. Exp. Station, Auburn University, AL.
- Plant Health Specialist, Intermediate, State of Minnesota, Dept. of Agriculture, St. Paul, MN.



July 22

agronomy gleanings 1988

Department of Agronomy and Plant Genetics

WELCOME NEW STUDENT

Please welcome Greg Holland and his wife Sue to Minnesota. Greg will be working toward the Ph.D. in plant breeding on the corn breeding project. He received his M.S. and B.S. from Purdue University. His office is 200 Agronomy.

COMMENTS ON FIELD DAYS

At both the Morris and Grand Rapids field days our faculty, staff and graduate students contributed substantially to the success of these excellent educational and public relations events. We in the Department of Agronomy and

Plant Genetics are appreciative and proud of your dedication and contributions at these field days. Branch station personnel should also be thanked for their important contributions in carrying out the field research programs of the department. Orvin Burnside

THANK YOU

I want to take this opportunity to thank the staff from the Department of Agronomy who helped with our Summer Crops and Soils Day. Farmers were already combining but we still had over 400 visitors. The addition of the drouth clinic on short notice was very well received as over 300 attended the drouth clinic. The drouth publication was handed out and a lot of credit must go to the staff who helped put it together. Thanks again for your help. We can't put on a good day without substantial help from your department. Dennis Warnes, Agronomist at Morris

CONGRATULATIONS

Congratulations to Dr. David Stoltenberg on the successful defense of this Ph.D. thesis on Friday. Dave has accepted a position at Iowa State University in Ames.

POSITION ANNOUNCEMENTS

- Cropping Systems Specialist (Emphasis on corn) with the rank of Assistant/Associate Professor, (70% Extension-30% Research), The Ohio State University, Ohio Ag. Res. and Dev. Center, Columbus, Ohio.
- Extension Weed Specialist in the Soil and Crop Science Department at Texas A&M University at College Station, TX, 100% extension education.
- Molecular Biology Postdoctoral Research Associate for USDA-ARS to work on determining the role of root-colonizing bacteria in forage production for Appalachian hill-lands using genetically-marked strains, Appalachian Soil and Water Conservation Research Lab, Beckley, West Virginia.
- Extension Educator, Course Development for the Educational Development System, Minnesota Extension Service, University of Minnesota, St. Paul.
- Agricultural Agent, Lincoln County in Central Wisconsin. The Ag. Agent designs, teaches and evaluates educational programs in agronomy, soils, horticulture, farm management, pest management, marketing, etc. Cooperative Extension Service, University of Wisconsin.
- Assistant Professor of Entomology, Extension Integrated Pest Management Coordinator (Ph.D. in entomology, plant path., or weed science), University of Idaho, Moscow, ID.
- Associate/Assistant Professor of Entomology, with a strong background in Integrated Pest Management, Texas A&M University at Weslaco, Texas.
- Associate in Research and Extension to coordinate research and extension activities on cereal-legume cropping systems in a six-state project on low input-sustainable agriculture, Washington State Univ., Pullman, WA.
- Two graduate research assistantships in weed science at Michigan State University, East Lansing, MI.
- Assistant/Associate Professor - Water Quality, Auburn University, Alabama.

USE COPY SERVICE FOR BIG COPY JOBS

Please anticipate your copying needs and send your large projects to "The Copy Shop" in the Student Center or "Beckwith Copy Center". Beckwith picks up and delivers and both The Copy Center and Beckwith can give you better prices than you get using our copy machine. See Avis or Judy for more information.

HICKS QUARTERLY REPORT

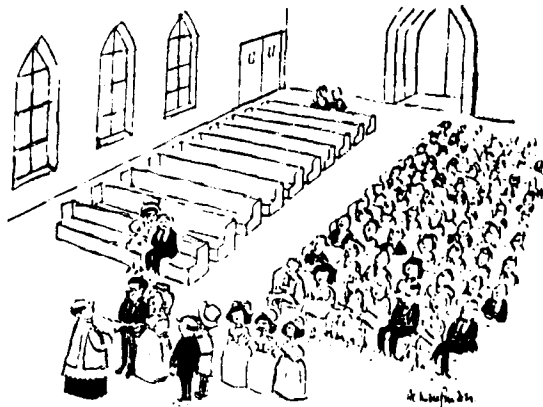
We have received Dale Hicks' quarterly report from Morocco. I have posted a copy on the bulletin board and put one in the departmental library.

ANNUAL NEWSLETTER

The Alumni Newsletter Committee is starting to work on the Annual Gleanings for 1988. If you have any items you would like to see in this issue that would be of interest to alumni please tell Lynne in 411 Borlaug Hall. We are always interested in new ideas.



"Can the kids look at you? They never heard of an agronomist."



"He wanted a small wedding and she wanted a large one."

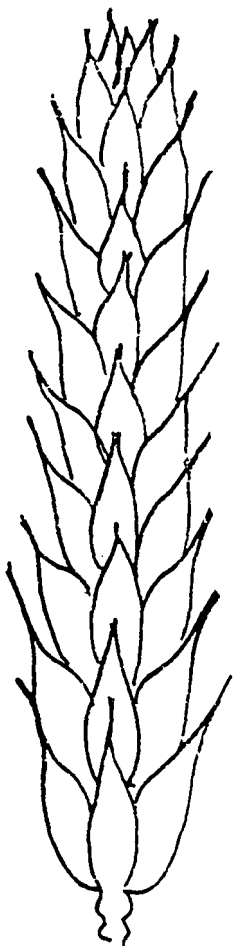


"I know you're in bed with the flu, but I need the keys to the filing cabinet."

THE WATERLAKE COVERUP

"Sorry, we don't have potted geraniums," the clerk said. "How about some African violets?"

"No," replied the husband sadly, "It was geraniums my wife told me to water while she was gone."



agronomy gleanings

July 29

1988

Department of Agronomy and Plant Genetics

COMINGS AND GOINGS

Today is Tracy Coffman's last day. Tracy is moving to California. Muriel Mapes will be taking Tracy's place starting next Thursday, August 4. She has been working for 4-H for the past 10 years in Coffey Hall. Today is Liz Ressler's last day also. Liz has been filling in for Becky Petro in Extension.

202 BORLAUG

The conference room located at 202 Borlaug Hall has been reassigned to a post doc student. Room A220 Agronomy will now be used as the Extension Conference Room.

The room accommodates 7-8 people comfortably and has a

"whiteboard" for use with talks/presentations. The sign-out calendar and key to A220 Agronomy will be handled through the Extension office A217 Agronomy.

NEW GUIDE TO THE RIGHT TO KNOW ACT

The Department has purchased a new Guide to the Right to Know Act with Material Safety Data Sheets (awareness, training and compliance). It will be on display in the mail room for a few days and then put in the library for your use and your employees use.

RETURN SAS MANUAL

Computer Room Users: One of the SAS manuals regarding SAS Statistical Procedures has been removed from the computer room. Please return this manual so that others may use it as well. Computer Room Committee

EXTRA OFFICE FURNITURE AND OLD EQUIPMENT

4-drawer gray metal file cabinet (A220); 3 armless secretarial chairs: orange, gray, black (A109); 1 non-correcting electric typewriter, needs repair (A109); 1 electric calculator: Monroe 650 (A109); 1 printer terminal: Texas Instruments OMN 800 (820 KSR Terminal) (A109). Please call Avis (5-1937) if you want any of these items.

THANK YOU

Thanks to all of you who assisted with our annual Field Day and made it a great success. The extra effort you extended to serve our Field Day visitors is very much appreciated. Our visitors recognize the enthusiastic and professional manner in which you handle the tour stops and pest clinic. Individually, and as a University, we all benefit from this very positive perception our visitors receive. Thanks again for a job well done!

David Rabas

PLANT BREEDING TOUR

Dr. Deon Stuthman is planning a tour of plant breeding facilities for August 23, 25, 26. This tour will visit the Univ. of Wisconsin-Madison campus, Agri-genetics, a "biotech" farm and Dairy Land Seed Company. If you are interested in joining the group please contact Deon Stuthman as soon as possible.

WANT TO WORK AT THE STATE FAIR?

University Relations needs people to work in the University Booth in the Education Building during the Minnesota State Fair (Aug. 25-Sept. 5). They are looking for people willing to volunteer 4 hours at the fair. All volunteers will receive free admission to the fair on the day they work. If you are interested see the notice on the bulletin board outside 411 Borlaug Hall.

PAY EQUITY ADJUSTMENTS FOR CIVIL SERVICE

A list of Civil Service Job Classes that will receive Pay Equity Adjustments on January 1, 1989, is posted on the bulletin board outside 411 Borlaug Hall.

Avis



POSITION ANNOUNCEMENTS

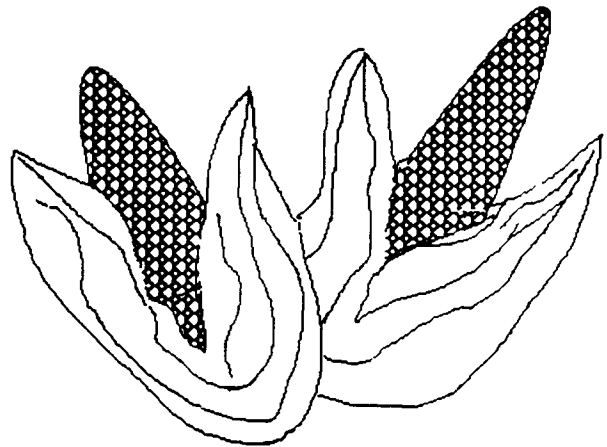
- Assistant/Associate Professor (Weed Research and Teaching), South Dakota State University, Dept. of Plant Science, Brookings, SD.
- Assistant/Associate Professor (Technologist/Plant Breeder), South Dakota State University, Dept. of Plant Science, Brookings, SD.
- Ag. Research Technician to work with production of improved oranges, grapefruit, tangerines and tangelos, USDA-ARS, Leesburg, Florida.
- Asst. Professor of Horticulture, New Mexico State University, Agronomy & Horticulture Department, Las Cruces, New Mexico.
- Superintendent of Lindcove Field Station, Univ. of California, Oakland, CA.
- Plant Physiologist, USDA-ARS, Fargo, North Dakota.

What: The Infamous Annual Corn Feed
When: Tuesday, August 2, 1988 at Noon
Where: Room 408 Agronomy (Seminar Room)
Cost: \$2.00

Two hotdogs per person and as much corn as you can eat! Coffee and lemonade will be served and also cucumbers and tomatoes if available. Please pass the word to all Agronomy personnel.



"Dear Bernice: While you were on break, your boyfriend stopped by, we fell in love, got married, and left on our honeymoon. Will you cover for me? Love, Janice."



If you have any delicious home grown tomatoes and/or cucumbers from your garden, please bring them to 409 Borlaug Hall on Monday if possible.

August 5,

1988

agronomy gleanings

Department of Agronomy and Plant Genetics

HOT DOGS FOR SALE ON THURSDAY

We will hold a hot dog lunch and clean up day on Thursday, August 11 at noon for anyone interested. Hot dogs will be \$.50 each and cleaning supplies will be available for anyone interested in doing some cleaning and dusting in their offices. We've noticed that some people's offices are in need of a good dusting.

THANK YOU FROM DAVID JEWELL

In September last year I came to the Univ. of Minnesota for the academic year on a study leave from the maize program at CIMMYT. The purpose of my visit was to gain first hand experience with some of the new molecular tools that can be applied to plant breeding. I joined Dr. Ron Phillip's lab group and was working primarily with RFLP related technology. I would like to thank the department for their many kindnesses and hospitality. My stay was professionally rewarding and I enjoyed visiting with many of the staff. Special thanks also go to the people in the lab, particularly for giving up three square feet of their valuable bench space!!! Should any of you be visiting CIMMYT, Jeni and I will do our best to return some of the many favors. Thanks to you all, and may the Twins have another successful season. Sincerely,

David Jewell

ATTENTION AGROMANIAS SOFTBALL TEAM

We made the playoffs with a record of 4-2. Playoffs start next Wednesday, August 10. Supposedly, the playoff schedule will be posted on Tuesday, Aug. 9 so I won't know until Tuesday if we play Wednesday or not. I'll let you know as early as possible on Tuesday. Keith

CORN FEED

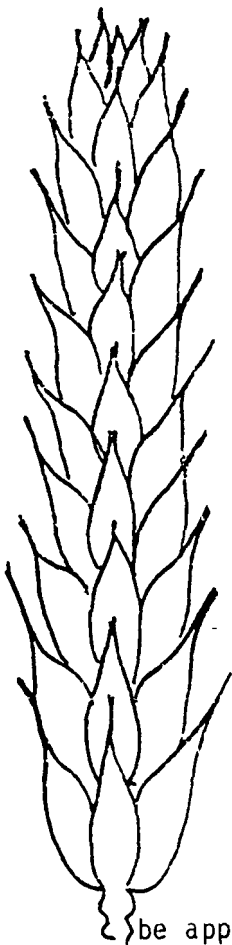
The corn feed last Tuesday was a great success. Thank you to everyone who participated.

M.S. THESIS SEMINAR

ERIC Jellen will present his M.S. Thesis Seminar on Tuesday, August 16 at 10:00 am in 306 Borlaug Hall. The title is "Molecular Genetics and Restriction Fragment Length Polymorphisms (RFLP's) of Ribosomal DNA's in Oats."

POSITION ANNOUNCEMENTS

- Senior Research Specialist-Wheat Cellular and Molecular Biology, Dept. of Agronomy, Oklahoma Ag. Exp. Station, Stillwater, OK>
- Dean, College of Agriculture and Director for Resident Instruction, Univ. of Nebraska, Lincoln, NE.
- Asst. Director, Office of Educational Development Programs, Univ. of Minnesota, Minneapolis Campus.
- Agricultural/Community Resource Specialist, the National Center for Appropriate Technology Transfer for Rural Areas (ATTRA) (two positions in the area of sustainable agriculture), ATTRA, Agricenter International, Memphis, TN.
- Plant Pathologists/Microbial Ecologists/Agronomists, Crop Genetics International, Hanover, MD.
- Asst. Professor of Soil Science, Soil Fertility Specialist, Powell Res. and Extension Center, Powell, Wyoming.
- Post-doctoral position in Wheat Genetics and Tissue Culture, Dept. of Agron., Univ. of Nebraska-Lincoln, NE.
- Tissue Culture Research Technician, the Genetics and Biotechnology Section of Westvaco Corporation in Summerville, SC.
- Extension Agent (Agriculture), Adams County, Brighton, Colorado.
- Coordinator, Wyoming State Seed Certification Service, University of Wyoming, Laramie, WY.
- Turfgrass Specialist (100% Extension), The Ohio State University, Dept. of Agronomy, Columbus, OH.
- Asst./Assoc. Professor, Plant Molecular Biologist/Geneticist, Dept. of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX.
- FSR/E Agronomist, Rwanda Farming Systems Research Program, Rwere, Rwanda through the Univ. of Arkansas, Fayetteville, AR.

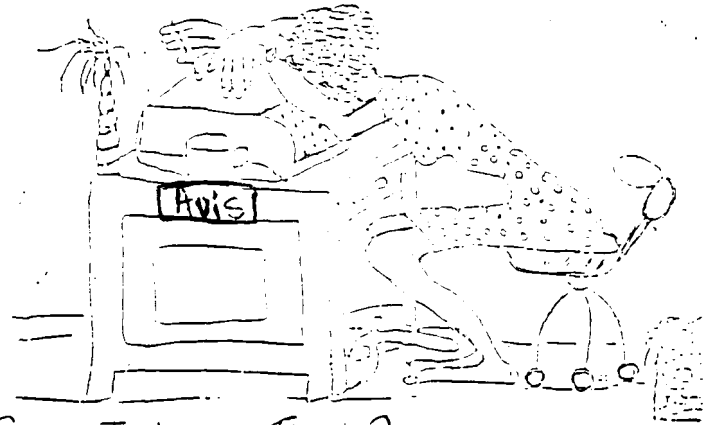


NO DRIVERS UNDER 19

The minimum age to drive a University vehicle is nineteen (19) years of age, for anyone. This includes both students and civil service personnel.

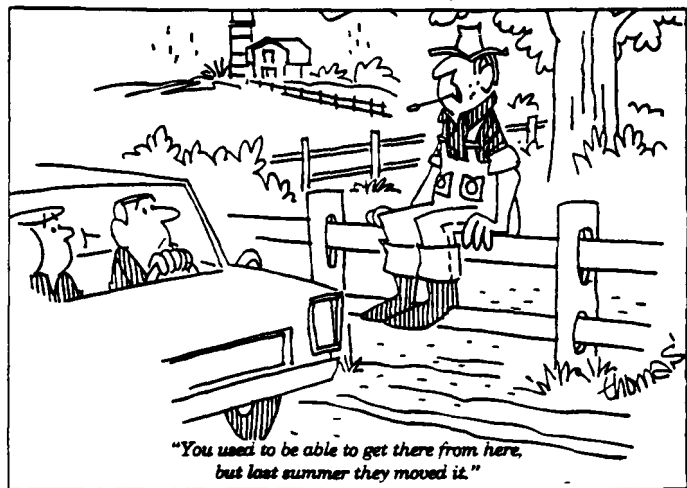
CANDIDATE - CEREAL CHEM AND TECH CHAIR

The Department of Food Science and Nutrition is bringing in a candidate for the General Mills Land Grant Chair in Cereal Chemistry and Technology on August 9. The candidate is Bruce Wasserman from Rutgers University. He will present a seminar at 1:00 p.m. on August 9 in the auditorium in Andrew Boss Lab of Meat Science (Room 125). His topic is: "New Applications of Carbohydrate Chemistry to Food Science: Biosynthesis and Structure-Function Relationships of alpha- and beta-Glucans". Any interested faculty from our department are invited to attend.



GOD I LOVE THIS PLACE

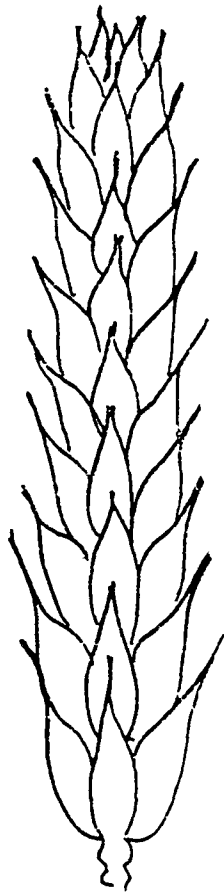
Please be patient, I only work here
because I am too old
for a paper route —
too young for social security
& too tired to have an affair



agronomy gleanings

August 12,
1988

Department of Agronomy and Plant Genetics



DEATH

Donn Vellekson's mother died on Wednesday. The funeral was today in Dawson, Minnesota. Flowers were sent by the department.

MISSING SLIDE PROJECTOR

The slide projector in Room 548 Borlaug Hall, conference room, is missing. If you have borrowed it or know where it is please return immediately or let Teresa Schoeder know where it is.

UNCLAIMED CHECK

Judy Slyter has a check from RepliGen Sandoz Research Corp. for \$8,700.00. She does not know who this belongs to. If it is yours please let her know immediately. She will write to the company if no one claims the check by Monday afternoon.

EXHAUST FANS AND FUME HOODS

All fume hoods and exhaust fans in Borlaug Hall will be shut down for about 15 minutes each for servicing sometime on August 15-18.

SUSTAINABLE AGRICULTURE DEMONSTRATIONS

The Minnesota Department of Agriculture has received \$280,000 to be used to demonstrate agricultural systems that reduce inputs and protect the environment. Individual grants can be up to \$25,000 without matching funds. Another \$25,000 can be secured with 1:1 matching funds. Proposals will be accepted until October 15, 1988, for grants made on December 24, 1988. Projects can be up to three years in duration. For more information contact Kent Crookston.

AGROMANIACS SOFTBALL TEAM

The Agromaniacs softball team lost in a close game during the playoffs. There will be no more games this year.

M.S. THESIS SEMINAR

Eric Jellen will present his M.S. Thesis Seminar on Tuesday, August 16 at 10:00 am in 306 Borlaug Hall. The title is "Molecular Genetics and Restriction Fragment Length Polymorphisms (RFLP's) of Ribosomal DNA's in Oats."

ATTENTION PLANT BREEDING PEOPLE

Don't forget to sign-up for the tour of plant breeding facilities in Wisconsin which will take place August 24-26. Sign up with Lisa Cirks in the 411 Borlaug Hall or with Deon Stuthman.

NEW SOCIAL COMMITTEE

Congratulations to the new members of the departmental social committee: Dave Somers (chair), Nancy Ehke, Roger Becker, Keith Henjum, Lisa Cirks, Chris Boerboom, and Beth Schreiber. They are already making plans for the fall picnic and wine and cheese party.

POSITION ANNOUNCEMENTS

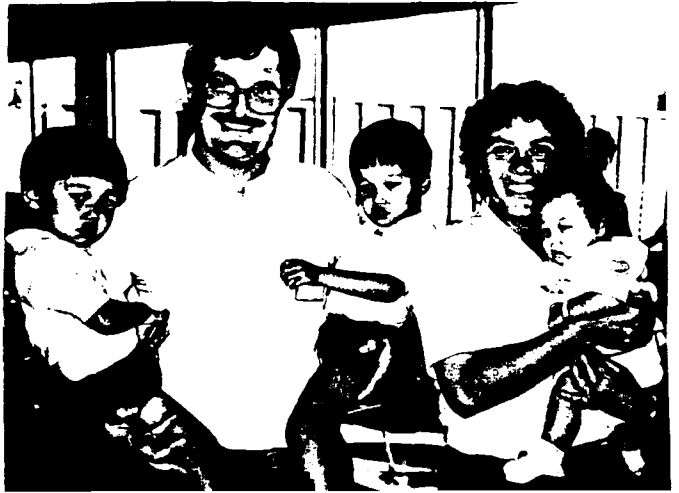
- Molecular Biologist/Entomologist, Biotechnology Research Dept., Pioneer Hi-Bred International, Inc., Johnston, Iowa.
- Researcher in weed science (B.S. or M.S.), Dept. of Plant and Soil Science, Southern Illinois University, Carbondale, IL.
- Postdoc in physiology, Univ. of Tennessee, Dept. of Plant and Soil Science, Knoxville, TN.
- Ag. Administrator, USDA-ARS, Red River Valley Ag. Res. Center, Fargo, ND.
- Dean of the College of Agriculture at the University of Illinois at Urbana-Champaign, IL.
- Manger, Cross Ranch Preserve, The Nature Conservancy, Washburn, ND.

CONGRATULATIONS TO BILLY

Congratulations to Billy Parker on passing his oral prelims on Thursday.

CONGRATULATIONS TO EBERLEINS

Charlotte and Bill Eberlein have a new addition to their family. They have adopted a four month old baby girl. They have not made a final decision on a name yet. Got any suggestions?

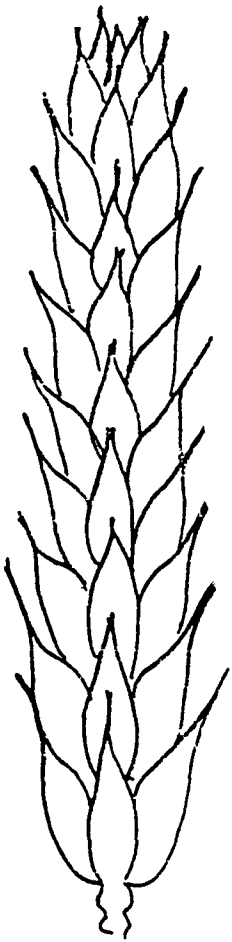


August 25,

agronomy gleanings

1988

Department of Agronomy and Plant Genetics



THANK YOU NOTE

My family and I would like to thank everyone in the Agronomy Department for the nice bouquet of flowers sent for my mother's funeral. She passed away after a 15-year struggle with cancer and has been very ill in the last 3 months. I would also like to thank everyone for their personal expressions of sympathy.

Donn Vellekson

THANKS FOR A JOB WELL DONE

We have received many accolades recently for the work done by our extension specialists and some of our researchers as to how well they have responded to the information needs on crop production and management

brought on by the drought. The entire department is appreciative of how this group has risen to the challenge and provided needed information statewide on a timely basis. Thanks for a job well done!

Orvin Burnside

CONGRATULATIONS

Congratulations to Brian and Valerie Johnson on the birth of a baby girl on August 22. The baby weighed 7 lbs. 6 oz and they have named her Jennifer Lynn. Flowers were sent by the department.

THANK YOU NOTE

Lee and I want to say thanks for your thoughtfulness and concern during his illness. He continues to show progress toward recovery with many ups and downs. It has been a serious illness, but he is much better, and much more ready for company than previously. The flowers were lovely and much appreciated.

Lee and Margaret Snyder

KNITTING DISPLAY

Lisa Boerboom will be in 409 Borlaug Hall on September 15 at noon displaying and taking orders for her knit articles. Last year several people ordered Christmas stockings from Lisa. Avis

HIGH SCHOOL TEXTBOOK ARTICLES

My parents have a large number of high school textbooks (varied subjects) which they would be willing to donate to any school or agency which could make use of them. They will pay to have them shipped, if necessary. Please contact Virginia Peschke (5-1208) if you know of anyone who could use these books.

USED COMPUTER WANTED

One of the graduate students is looking for an inexpensive but reliable IBM or IBM compatible computer to buy. If you have one for sale please call 645-5469.

SPECIAL SEMINAR

Dr. Walter Stern, from the University of Western Australia, will be in the Department on Friday, September 2 and will present a seminar on "Analysis of a Dryland Wheat/Sheep Farming System", at 11:00 a.m. in 306 Borlaug.

COPIES OF AGRONOMY JOURNAL AVAILABLE

I have a complete set of Agronomy Journal from January 1977 through February 1985. If anyone would like all or part of this set please contact Virginia Peschke (5-1208).

MISSING BOWL

Avis had a large yellow bowl filled with tomatoes in the refrigerator in 302 Borlaug Hall. She doesn't care about the tomatoes but please bring back the bowl. Thank you.

ERIC PUTT TO VISIT IN SEPTEMBER

Dr. Eric Putt who received his Ph.D. in plant breeding in 1950 (with Dr. Burnham) from this department has been selected to receive the U of M Outstanding Achievement Award. The presentation will take place on September 26 from 3 to 5 p.m. in 306 Borlaug Hall. There will be a coffee and cookie reception at 3:00, the award will be presented at 3:30 p.m. and Eric will present a seminar at 4:00 p.m. Eric will be around all day on September 26 to visit with faculty and students. Please reserve this time on your calendar.

GRADUATE SCHOOL RESEARCH FUNDS

The Graduate School is accepting applications for research funds to be awarded this fall. Priority will be given to applications which fall into these categories: support for new faculty members, interim support during lapse in external funding, support for faculty moving into new areas of research, or support of faculty in fields where external funding is scarce. All applications should be submitted on or before Monday, October 3. All proposals must be submitted on an application form which are available from 313 Johnston Hall (5-2356).

ACCESS TO CAMPUS DURING STATE FAIR

The Minnesota State Fair will be held from August 25 to September 5. During this time the campus will be locked at these intersections during off hours (5:30 p.m. to 7:00 a.m., weekends and holidays):

Larpenteur and Gortner
Boyd and Commonwealth
Gortner and Commonwealth
Roadway between Ag. Engineering and Classroom Office Building

Folwell and Cleveland (This is the entrance to campus during off hours. A University police officer will be at this intersection during the hours that the other entrances are closed. A staff or student ID will be acceptable to gain entrance to campus.)

Buford Avenue in front of the Student Center will continue to serve as the EXIT from campus. If you have any questions about campus access during this time please call U. Police at 4-3550 or Morris Mitteness at 4-1227.

AG OUTLOOK '89 CONFERENCE

The Seventh Twin Cities Ag Outlook '89 Conference will be held at the Earle Brown Center on September 12 from 8:00 a.m. to 5:00 p.m. This year the major topics will include the 1988 drought, policy implications of the drought as well as the outlook for commodity prices, oilseeds, feedgrains, wheat and small grains, dairy, beef, hogs. Twin Cities area agri-business people and farmers are encouraged to attend this conference. The conference fee is \$35.00 which will include materials, two coffee breaks and lunch. Check the bulletin board outside 411 Borlaug Hall for a registrations form (due by September 7).

POSITION ANNOUNCEMENTS

- Weed Physiologist - Research/Teaching, Assistant Professor, University of Nebraska, Lincoln, NE.
- Extension Specialist-Grain Crops, Dept. of Agronomy, Univ. of Missouri, Columbia, MO.
- Postdoc in Weed Science, Dept. of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA.
- Interim Legislative Assistant to Vice President of IAFHE, Univ. of Minnesota, St. Paul, MN.
- Microcomputer Assistant Manager, Pioneer Hi-Bred Intl., Inc., Johnston, IA.
- Area Extension Agent, Southeast Colorado Research/Extension Area, Las Animas, CO.
- Area Extension Director, Southeast Colorado Research/Extension Area, Las Animas, CO. Main crops are potatoes, grain, hay, and vegetables.
- Two positions are open at Agri-Diagnostics Associates in immunology and plant pathology, Cinnaminson, New Jersey.
- Agronomic Consultant, Centrol, Inc. of Morris, MN. Work with farmers in the area of crop production.
- Production Research Agronomist, (Ph.D. in crop physiology, crop management, or seed physiology), Pioneer Hi-Bred Intl., Inc., Princeton, IL.
- Survey Plant Pathologist, Kansas State University, Topeka, KS.
- Research Associate in Agronomy, Kansas State University, Manhattan, KS.

CARROLL VANCE IN DENMARK

Carroll Vance will be a visiting Professor at the Danish National Research Laboratories in Roskilde, Denmark from September 8 to October 7 working on "Characterization of Symbiotic Traits of a Super-Nodulating Pea Genotype."

SPECIAL PRICE AT DAYS INN IN ROSEVILLE

Keep this in mind when you have visitors, the Days Inn in Roseville is offering a special university rate of \$33/\$39. The Days Inn is located on Cleveland Avenue.

Department of Agronomy and Plant Genetics

OPEN HOUSE

The General Storehouse will hold an open house on Sept. 14 and 15 from 11 am to 4 pm at the storehouse. Come and meet the storehouse staff, vendors, buyers, lab product coordinator, and purchasing staff and also enjoy food, prizes, tours, free catalogs, and lab seminars. Call 4-4878 for Open House information and 5-6545 for Seminar Information. Free parking is available or a shuttle van will depart from Borlaug Hall at 10:30, 11:20, 12:10, 1:00, 1:50, 2:40, and 3:30.

Ph.D. FINAL SEMINAR

Mark Farnham will present his Ph.D. Final Seminar, "The Characterization of Panicle

Exsertion in Semidwarf Oat", on Thursday, September 15 at 1:30 p.m. in 408 Agronomy.

NEW BABY

David and Cindy Frisch are the parents of a new baby girl, born Wednesday, September 7 at 7:30 a.m. weighing 6 lbs. and 14.5 oz. They have named their new daughter Courtney Louise. Flowers were sent by the department. Congratulations.

NEW BABY

Neville and Lynn Wilson had a baby girl on August 21, 1988. She weighed 8 lbs. and 14 oz and they have named her Jessica Lynn. Flowers were sent by the department. Congratulations.

THANK YOU NOTE

Valerie and I wish to thank you all for the beautiful flowers sent by the department. It was much appreciated.
Brian Johnson

COA CALENDAR OF ACTIVITIES

Keith Wharton's office will issue a weekly event listing, "COA Calendar of Activities". It is intended as a handy summary and reminder of what is happening during the upcoming week, not as the sole notice of events. Please notify Avis in 411 Borlaug Hall, at least one week before the event if you want to have your event listed.

1989 KELLOGG NATIONAL FELLOWSHIP AWARDS

The W.K. Kellogg Foundation will once again offer fellowship awards to individuals of exceptional merit and competence who have exhibited leadership potential in their community, organization, or profession. To be eligible for the three-year program an applicant must be a U.S. citizen, must participate in all activities related to the program and must receive 25% released time from his/her employer. The award includes \$35,000 for the development and completion of the learning plan and \$5,000 to be used for travel expenses incurred while participating. In addition, 12-1/2% of the Fellow's salary, up to \$24,000 over the three years will be reimbursed to the sponsoring institution. If you are interested in applying contact Elsa Batica at 625-4211 for application forms.

NATIONAL IPM SYMPOSIUM/WORKSHOP

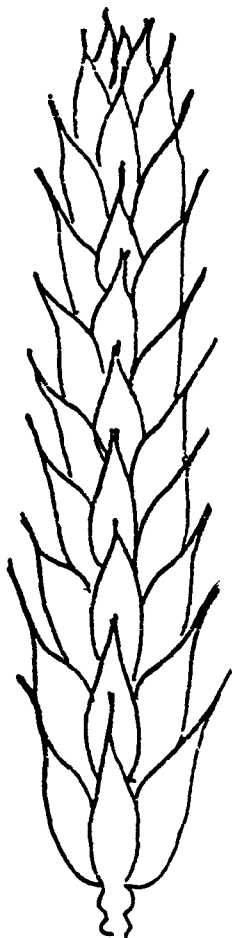
A national IPM Symposium will be held in Las Vegas, Nevada, April 25-28, 1989. For further information, write or call: E.H. Glass, Dept. of Entomology; NY State Ag. Exp. Station; Geneva, NY 14456; Telephone (315) 787-2337.

NAME CHANGE FOR COLLEGE OF FORESTRY

The Regent's have approved a name change for the College of Forestry. The new name will be the College of Natural Resources.

FRESHWATER FOUNDATION CONFERENCE

The Freshwater Foundation is holding a conference titled "Agrichemicals and Groundwater Protection: Resources and Strategies for State and Local Management", October 24-25, 1988 at the Radisson Hotel in St. Paul. The registration fee is approximately \$160.00. Check the bulletin board outside 411 Borlaug Hall for a detailed program. Extension specialists may receive a scholarship covering this registration fee. To apply for this scholarship write a one page letter to Tom Thorburn, Program Leader, 146 Classroom Office Building stating how this conference would be helpful to you in planning and implementing water quality education programs by Monday, September 26.



NEW JOURNAL

We have put information and an order form in the departmental library for a new journal, (the form may be used to order a free copy of the journal) Applied Agricultural Research. This journal publishes "how-to" articles in the form of tutorials and conceptual and field-tested findings that deal with contemporary research-based agricultural problems.

DEATH

Delmar R. Hagen of Roseau died on September 2. Mr. Hagen was an active community leader in the Roseau, MN, area.

ANNUAL AGRONOMY PICNIC

The Annual Agronomy Picnic will be held on Sunday, September 25, 1988 at 1:00 p.m. in Central Park, Lion's Picnic Shelter (West of Victoria Street, and South of County Road C). Cost of the picnic is \$3.00 for adults and \$1.50 for Children (6 to 12). Each family should bring one dish to share (for about eight people), and their own plates and silverware. The Social Committee will once again make those delicious grilled turkeys. Make your reservations with Lisa Cirks, 411 Borlaug Hall, by September 16.

PLANT PATHOLOGY SYMPOSIUM

The Plant Pathology Graduate Students are organizing a one or two day symposium for winter or spring quarter of 1989. They are asking for proposals for symposium topics or suggestions for speakers. If you would like to respond to this request send your suggestions to the Plant Pathology Symposium Committee; c/o DeLane Duval; 495 Borlaug Hall.

SEMINARS

- Monday** Soil Science Seminar
- Sept 12** Spatial character of corn root density and relations to soil structure and plant nutrition. Dr. Francois Tardieu, INRA Laboratoire d'agronomie, France in 375 Borlaug Hall at 10 am.
- Monday** Soil Science Seminar
- Sept 19** Effects of injected manure on corn growth and production. Dr. Michael Schmitt in 375 Borlaug Hall at 10 am.

FALL FIELD DAYS

There are three fall field days next week: Morris - September 13
Lamberton - September 14
Waseca - September 15
Several of our faculty will be at these field days.

POSITION ANNOUNCEMENTS

- Research Associate, Post-doc to assist with peanut seed aging studies, North Carolina State Univ., Raleigh, NC.
- Extension Specialist-Grain Crops, Univ. of Missouri-Columbia, Dept. of Agronomy, Columbia, MO.
- Associate Director of the Iowa Ag. and Home Ec. Exp. Station and Assoc. Dean, College of Agriculture, Iowa State University, Ames, IA.
- Three positions: Soil Scientist, Station Management Advisor and Dry Land Agronomist/Team Leader, Univ. of Wyoming, Bonka Research Station, Baidoa, Somalia Democratic Republic.
- Farm Advisor-Plant Pathology, Univ. of California, Oakland, CA.
- Assistant, Associate, or Full Prof. in quantitative genetics - research/teaching, University of Nebraska, Lincoln, NE.
- Assistant/Associate Professor-Extension Specialist - Integrated Pest Management, Univ. of Nevada, Dept. of Plant Science, Reno, NV.
- Professor and Head, Department of Crop Science, North Carolina State University, Raleigh, NC.
- Head, Department of Agronomy, Georgia Station, Division of Agronomy, College of Agriculture, Univ. of Georgia, Griffin, GA.
- Assistant or Associate Professor in Plant Physiology to work with vegetable crops, Texas Ag. Experiment Station, Texas A&M University, El Paso, TX.
- Barley Breeder, Busch Ag. Resources, Inc., Anheuser Busch Company, Berthoud, CO.
- Research Associate in Forage Physiology, Univ. of Arkansas, Dept. of Agronomy, Fayetteville, AK.
- Extension Specialist-Water Quality, Sussex County, University of Delaware, Research and Education Center, Georgetown, Delaware.

CIVIL SERVICE ELECTION OF NEW LIAISON COMMITTEE REPRESENTATIVES

Attention Civil Service Personnel: We will put a ballot in your mailboxes for the election of two new representatives on the Civil Service Liaison Committee. We have listed all civil service personnel on this ballot. Please select two individuals who you feel would be good representatives. Please return this ballot to Lynne in 411 Borlaug Hall by September 15. Thank you.

agronomy gleanings

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Department of Agronomy and Plant Genetics

SURGERY

Silvio Viteri, postdoc with Dr. Barnes, had an emergency appendectomy over the weekend. He is at home recovering and should be back at work sometime next week. Flowers were sent by the department.

ROOMMATES FOR ASA MEETING

Phil Bregitzer is looking for roommates to share a hotel room during the ASA meetings in Anaheim, California, in November. If you are interested please contact Phil at 625-8107 or 625-8756.

GOPHER CROPS AND SOILS CLUB

The Gopher Crops and Soils Club will hold their first meeting of the new school year on Tuesday, October 4 at 5:00 p.m. with a hot dog roast on the Borlaug Hall Terrace (next to Room 335 BH). They are planning a watermelon seed spitting contest, an alternative crop dish, and yummy desserts to start off the new year.

MAKE YOUR RESERVATIONS SOON!!

The Annual Agronomy Picnic will be held on Sunday, September 25, 1988, at 1:00 p.m. in Central Park, Lion's Picnic Shelter (West of Victoria Street, and South of County Road C). Cost of the picnic is \$3.00 for adults and \$1.50 for children (6 to 12). Each family should bring one dish to share (for about eight people), and their own plates and silverware. The Social Committee will make delicious grilled turkeys. Make your reservations with Lisa Cirks, 411 Borlaug Hall, by September 16.

NEW GRADUATE STUDENT ORIENTATION

The New Graduate Student Orientation will be held on Wednesday, September 21 from 8:15 to 11:15 in 306 Borlaug. The purpose of the orientation is to familiarize new grad students with the department. New grad students are encouraged to attend. Also, from 9:30 to 10:00, the new students will meet with "old" students and faculty for coffee and cookies. This is a great opportunity to meet the new students and welcome them to the department. See you there!

FREE LIBRARY MATERIALS

The Agronomy Library maintains back issues of certain journals (those not bound) for only one year. Back issues of these journals which include: Ag. Consultant, The Furrow, Sunflower, Soybean Digest, Agrichemical Age, Science, The Farmer, are available to anyone who wants them. These materials are indicated on a table in the library. After September 23 all remaining materials will be disposed of.

PROFESSIONAL SKILLS/CAREER DEVELOPMENT SECTION IN LIBRARY

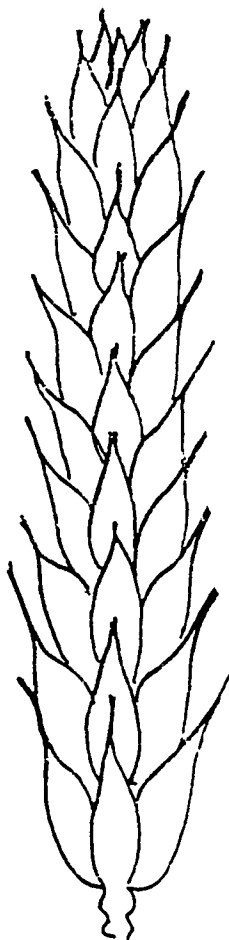
The Agronomy Library Committee would like to start a small "Professional Skills/Career Development" section. We envision this section as consisting of binders containing xeroxed materials and a few selected books. We ask you to help by informing us of any books or journal articles that you have found to be helpful. Some examples: articles or books relating to job search strategies, interviewing for faculty positions, writing resumes, improving basic writing skills, writing journal articles and grant proposals, tips on improving oral and poster presentations, etc. We believe a collection of these materials would be useful to both graduate students and faculty. Please inform me of any useful materials that you may be aware of so that I can have the materials xeroxed and placed in the library.

Thank you, John Gronwald.

PAPER SUPPLY SHORTAGE

The University (along with the entire country) is experiencing a paper shortage. This shortage is industry-wide and is due to increased usage as well as high levels of exporting activity. Mills are running to near capacity, 24 hours a day. The University will experience price increases for paper and quality of paper may not be consistent. The General Storehouse is asking departments to conserve on paper, especially copier paper. Remember to recycle as much as possible through the University's Recycling Program

THOUGHT FOR THE WEEK...It's probably not such a good idea to be well-informed. It gives us so many more things to worry about.



SEMINARS THIS WEEK

Thurs. Genetics and Cell Biology
Sept. 22 Expression of beta-tubulins in higher plants.
Dr. Patrick Hussey, at 4:00 p.m. in Rm 70 BioScience.
Food Science and Nutrition
Applications of Quantitative Imaging in Cereal Research.
Dr. R. Gary Fulcher, at 1:00 p.m. in RM 125 ABMSL. Dr. Fulcher is a candidate for the General Mills Land Grant Chair in Cereal Chemistry and Technology.

ELECTION RESULTS

Civil Service: Thank you to everyone who returned a ballot in the election of two new members of the Departmental Civil Service Liaison Committee. The winners of the election were Jim Kurle and Sue Miller. Congratulations!

POSITION ANNOUNCEMENTS

- Director, Northeast Research and Extension Center, University of Arkansas, Stuttgart, AR.
- Research Associate, Dept. of Plant Path. and Crop Phys., Louisiana Ag. Exp. Station, Louisiana State Univ., Baton Rouge, LA.
- Research Technician II in forage/range program, Texas Ag. Exp. Station, Texas A&N University, Beeville, TX.
- Head, Department of Agronomy, Univ. of Georgia, Georgia Station, Griffin, GA.
- Data Production Manager, Pioneer Hi-Bred Int'l., Inc., Johnston, IA.

OUTSTANDING ACHIEVEMENT AWARD CEREMONY

Mark your calendars!! There will be an Outstanding Achievement Award ceremony and seminar for Dr. Eric D. Putt on Monday, September 26 starting at 3:00 p.m. Dr. Putt received the Ph.D. from our department with Dr. Charles Burnham as his advisor in 1950. Dr. Putt will present a seminar at 4:00 p.m. titled "Canadian Sunflower Breeding Since 1937 - Some Reflections". If you would like to meet with Dr. Putt informally on Monday, September 26, in the morning or if you would like to have lunch with the group please let Dr. Lambert know by September 21.

GRADUATE STUDENT COLLOQUIUM

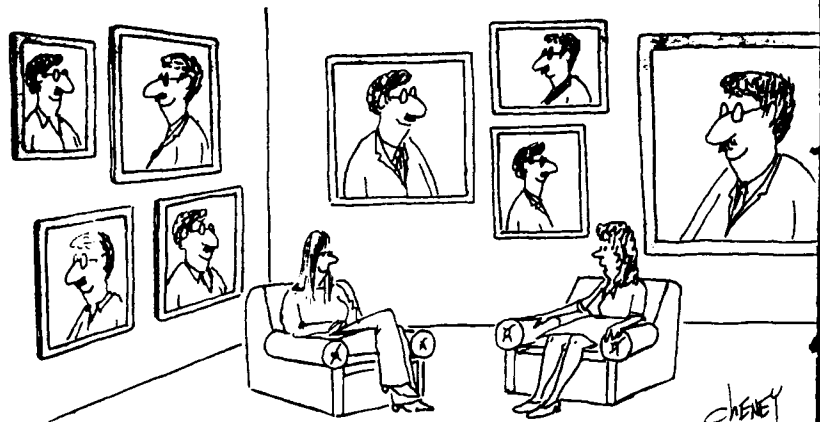
New this fall - The first Graduate Student Colloquium - A series of presentations by grad students on their research - covering any stage from thesis proposals to data to conclusions - held during the NOON HOUR on FRIDAYS in OCTOBER - sort of an academic Oktoberfest! The colloquium is intended to provide for:

- Experience in public speaking in a professional yet informal setting.
- Interaction between students, staff, faculty.
- Exchanges of ideas, methods, sympathy, etc.

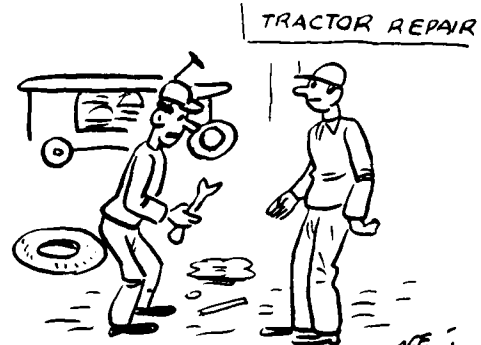
Information on other projects in the Department.

Omission of suits, ties, nylons but bring your lunch!

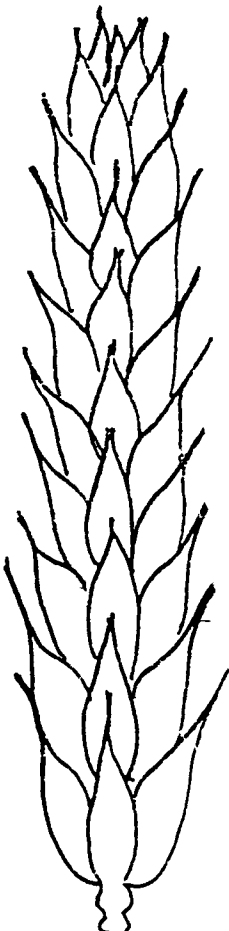
All members of the department are invited to attend - a schedule will be out around October 1. All grad students, "new" or "old" are invited to make presentations (20 minutes maximum) - see Peggy Egli if you need more info or another signup form. This colloquium is being organized by the Grad Club Colloquium Committee.



"So, you really like this guy, huh?"



"Your tractor isn't ready. We haven't got that part back from the Smithsonian."



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Department of Agronomy and Plant Genetics

PICNIC ON SUNDAY

Don't forget the Annual Agronomy Picnic is this Sunday, September 25 at Central Park in Roseville at 1:00 p.m. in the Lion's Shelter. Each family should bring one dish to share (for about eight people), and their own plates and siverware. The Social Committee has been working very hard to make sure this year's picnic will be a fun time for everyone.

THANK YOU NOTES

Thank you to all my friends in the Department for your thoughtfulness and beautiful flowers that were sent during my recent surgery.

Silvio E. Viteri

THANK YOU NOTE

David, Courtney, and I want to thank everyone for the flowers that were sent to the hospital. They were very pretty and lightened up our room. We also enjoyed having the visitors.

Cindy Frisch

CONGRATULATIONS

Congratulations to John Leif who is getting married on Saturday, September 24, to Karen Hinkley.

SENDING ITEMS TO INVENTORY

We will be sending a few items that we no longer need over to the Inventory Warehouse next week. If you have any items you would like to get rid of, let Avis know. One of the items we are sending is a box of slide trays (the kind that fit into a light box unit). If you would like these slide trays just ask Avis and you can have them.

GRADUATE STUDENT ASSOCIATION MEETING

The fall meeting of the Graduate Student Association will be held on Thursday, September 29 in Room 408 Agronomy. The meeting will begin at 3:30 p.m. Anyone who has something to report should notify one of the officers if they have not already done so. All graduate students are encouraged to attend.

LIBRARY HOURS FOR FALL QUARTER

The St. Paul Campus Central Library will be open Monday-Thursday - 8 am to 10:30 pm; Friday - 8 am to 6 pm; Saturday - 10 am to 5 pm; Sunday - 1 pm to 9 pm.

FUNERAL

Memorial services for Bettie Comstock will be held on Saturday, September 24 at 1:00 p.m. at the St. Anthony Park United Methodist Church at Como and Hillside. Flowers were sent by the department. The family has asked that donations be made to the Polycystic Kidney Foundation: c/o AAKP; 1 Davis Boulevard; Suite LL1; Tampa, FL 33606. The Comstock family would like to replace 50 units of blood at the American Red Cross. If you would like to donate blood call 291-4506 for an appointment.

OPEN HOUSE AT U OF M HERBARIUM

The Department of Botany is pleased to sponsor an open house of the U of M Herbarium on Tuesday, October 4 from 2-6 p.m.; 8th floor of the Biological Sciences Center. Come and meet the herbarium staff, tour the facilities, and see what is happening.

GOPHER CROPS AND SOILS CLUB

Don't forget the Gopher Crops and Soils Club Fall Start-Up meeting on Tuesday, October 4 on the Borlaug Hall Terrace at 5:00 p.m. They are planning a hot dog roast. Faculty - Come and meet the undergrads.

OUTSTANDING ACHIEVEMENT AWARD CEREMONY

The Outstanding Achievement Award Ceremony and Seminar for Eric Putt are scheduled for Monday, September 26 starting at 3:00 p.m. in 306 Borlaug Hall. There will also be an informal open discussion with Dr. Putt at 10:30 am in 302 Borlaug Hall for anyone interested in attending. Also, they would be happy to have you join them for lunch at noon at the St. Paul Student Center Grainery Cafeteria.

ROOMMATES FOR ASA MEETINGS IN ANAHEIM

Lynn Dahleen is looking for someone to share a hotel room with at the ASA meetings in Anaheim in November. Please leave a note in her mailbox in 411 Borlaug Hall if you are planning to attend and need a roommate.

PEACE CORPS REPRESENTATIVE ON CAMPUS

A Peace Corps representative will be on campus on October 11-13 from 9 to 3 in the St. Paul Student Center. Call 624-3221 for more information or an appointment.

THANK YOU NOTE

Earl Foster, Chairman, Agronomy Dept. at NDSU sent this note of thanks to everyone who spent time discussing and showing our facilities to the group from North Dakota: Thanks to the staff for the kind hospitality showed us during our visit and tour of your facilities. It was very interesting to contrast your building with what we say in Iowa.

CAMPUS COURIER SERVICE

Campus Courier is a new University courier service for sending documents, parcels and packages across campus and to metro locations. A driver will pick up at your office and deliver to any point on campus or within a 10-mile radius. Forms are available from Avis in 411 Borlaug Hall or the driver. Charges will be accumulated monthly and you will be billed by journal voucher. The on-campus service is \$4.00 per deliver. For deliveries off campus the dispatcher will give you an estimated delivery time and cost. Questions about the service can be directed to Grant Tragethon at S-64 Morrill, phone 6-0707.

APPLE COMPUTER PRICE INCREASE

Apple Computer, Inc. has announced price increases of 15-20% on most products. Prices on current price list are good only until September 20, 1988. If you are planning to buy a Macintosh, Laser-Writer, or any other Apple product and want the current price, your order must be placed in person at Williamson Book Center by September 30, 1988. If you have any questions please call the Microcomputer HelpLine at 6-4276.

POSITION ANNOUNCEMENTS

- Program Officer, African Women Leadership Program, Winrock Intl. Institute for Agric. Development, Morrilton, Arkansas.
- Two positions for Assistant Professor of Genetics in the Dept. of Botany and Plant Sciences: 1) Stress Tolerance; 2) Manipulation of Gene Expression in Crop Improvement, Univ. of California, Riverside.
- Interim Agricultural Agent-Manitowoc County, Wisconsin Extension Service, Manitowoc, WI.
- Asst. or Assoc. Professor, Research and Teaching, Plant Stress Physiology/Molecular Biology, Oklahoma State Univ., Stillwater, OK.
- Asst. Professor, Soil Chemistry/Soil Fertility, Dept. of Agronomy, Kansas State Univ., Manhattan, KS.

SEMINARS

Monday SPECIAL PLANT BREEDING SEMINAR

Sept. 26 Canadian Sunflower Breeding Since 1937 - Some Reflections
Dr. Eric Putt, Recipient of Outstanding Achievement Award in 306 Borlaug Hall at 4 p.m.

SOIL SCIENCE SEMINAR

Identifying the teachable in corn and sorghum production.
Dr. Stephen Hawkins, Dept. of Agronomy at Oklahoma State University in S415 Soil Science at 3:00 p.m.

Wednes. AGRONOMY SEMINAR

Sept. 28 New Crops: Successes, Failures, and Why?
Dr. Robert G. Robinson, Professor Emeritus, in 306 Borlaug Hall at 4 p.m.

Thurs. PLANT PHYSIOLOGY SEMINAR

Sept. 29 Genetic Analysis of Membran Lipid Composition in Arabidopsis.
Dr. Chris R. Summerville, DOE - Plant Research Lab at Michigan State University in 335 Borlaug Hall at 3 p.m.

GENETICS AND CELL BIOLOGY

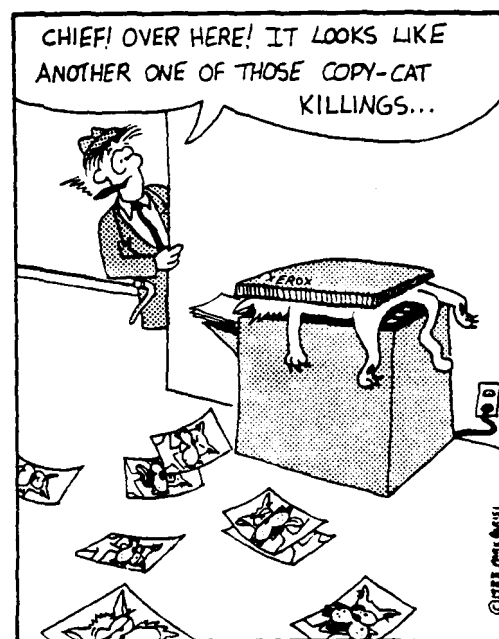
Expression of beta-tubulins in higher plants.
Dr. Patrick Hussey, Dept. of Genetics and Cell Biology, in Rm 70 BioScience Center at 4 pm

SOIL SCIENCE SEMINAR

Estimating soil N availability to corn and soil nitrate accumulation in Pennsylvania.
Dr. Gregory Roth, Dept. of Agronomy, Penn State Univ., in 375 Borlaug Hall at 10 am.

BURNHAM ARTICLE IN AMERICAN SCIENTIST

Dr. Charles Burnham has an article published in the September-October issue of American Scientist, "The Restoration of the American Chestnut." I have a copy of the journal at my desk if anyone would like to borrow it to read this very interesting article. Lynne



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OCT. 3,
1988

Department of Agronomy and Plant Genetics

WINE AND CHEESE PARTY

The Annual Fall Wine and Cheese Party for the Department of Agronomy and Plant Genetics will be held on October 7 at 4:00 pm in 306 Borlaug Hall. In addition to getting acquainted with newcomers there will be a dedication of the departmental artwork.

ASA TICKET AVAILABLE

I have a ticket for return to Minnesota leaving L.A. at 2:45 p.m. on Thursday, December 1. I would like to either sell this ticket or trade with someone leaving at a later time. Since my name is on the ticket, it probably could only be used by another woman. Contact Virginia Peschke (5-1208).

EDWARD SMITH NAMED REGENTS PROFESSOR

Dr. Edward Smith, a graduate of our Department (Dr. Lambert's advisee, 1961), was recently named Regent's Professor at Oklahoma State University. Only 23 professors have received this recognition at Oklahoma.

GRADUATE STUDENT COLLOQUIUM

New this October!! The graduate student colloquium will begin Friday (October 7) at noon in Borlaug Hall 306. Each Friday in October, three students will give short, informal talks about their projects. Come, bring your lunch, and enjoy this opportunity for learning and discussion.

ATTENTION FACULTY

Don't forget to update your publication (reprint) book in the departmental library at the same time you are updating your personnel record. Avis.

DEADLINE EXTENSION ON SA GRANTS

The deadline for submitting applications for the Sustainable Agriculture Grant Project to the State of Minnesota Dept. of Ag. has been extended to November 15.

WINTERIZE GREENHOUSE COOLING SYSTEMS

In order to prevent damage to greenhouse evaporative cooling systems, they must be winterized by Monday, October 17, 1988. Any request to have them in operation beyond Oct. 17 must be in writing and signed by the Dept. Head. Also, any dept. requesting the system be left in operation past this day will be responsible for any damage to the building and equipment due to frozen water lines. Call Joe Schwalich at 4-7278 with questions.

ATTENTION GRADUATE STUDENTS

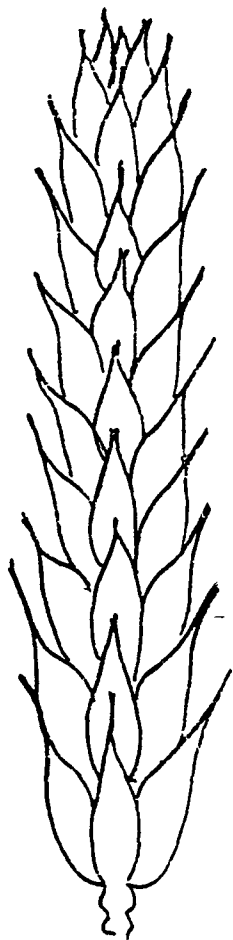
We have received new forms from the Graduate School for "Certification of Student Status for Graduate School Students". This form is needed to certify the status of students who are engaged in research or other educational activities and whose workload is equal to full-time or half-time, but whose quarterly registration is less than the Graduate School's definition of full-time or half-time status (less than 7 credits in any quarter). See Lynne in 411 Borlaug Hall if you need a form to certify that you are a student for purposes of using the libraries or Boynton Health Service.

THANK YOU NOTE

During the last nine months I was on leave from the University of Bologna, Italy, to learn RFLP related techniques in Dr. Ron Phillips' lab. The technique was applied to a study on maturity related traits in corn; this project was co-advised by Dr. Phillips and Openshaw. Next year I hope to be back to continue the study. I would like to express my sincere thanks to all the people of the Department for making my stay an enjoyable one and professionally rewarding. A very special thanks to the people in the lab for sharing with me the highly prized bench space and for answering all my questions. Should any of you come to Italy, I will be glad to visit with you. Thanks again. Roberto Tuberosa

THANK YOU NOTE

My family and I express sincere appreciation for the lovely flowers, to all who gave cake for the reception and for the support and sympathy expressed by department families. This is a loving and caring department -- one of the reasons it is so great! Verne Comstock



COIN OPERATED COPY MACHINE USERS

I have had reports of lost copy cards in the coin-operated copy machine in the departmental library, so I contacted a supervisor in the copy machine office. He said cards that are not immediately returned will be discharged by the copy machine within a few minutes and you should wait. If it is not returned, contact the person in the office next to the copy machine (Pat Kessler). On rare occasions, the machine does not discharge the card and the service person finds it when servicing the machine. It will then be returned to Pat. He informed me that what usually happens is that people do not wait long enough for the card to be returned and the card is then picked up by the next person using the machine (or someone else who happens along).

Avis

CONDO FOR RENT

Two-bedroom condo for rent. Quiet, central air, fireplace, 1 3/4 bath, new paint, dishwasher and appliances. Located in Brandychase (just west of the U of M golfcourse). About 20 minutes walk to St. Paul Campus - on busline. \$600/mo plus utilities (NSP approximately \$40/mo). Call Eric Ristau at 625-8189 or 649-0120 (in evening).

POSITION ANNOUNCEMENTS

- Asst./Assoc. Prof. of Soil Science (Soil Fertility), Louisiana Ag. Exp. Sta., Louisiana State Univ., Baton Rouge.
- Postgraduate Study in New Zealand, analysing the viability of alternative production systems for the major farm types, Lincoln University College in Canterbury, New Zealand.
- Research Associate, Plant Scientist, Forage and Range Research Laboratory, Utah State University, Logan, UT.
- Asst. Prof. of Entomology, Dept. of Plant, Soil and Insect Science, Univ. of Wyoming, Laramie, WY.
- Soybean Breeder, Dairyland Research International, Clinton, WI.
- Asst. Prof. of Horticulture, Texas A&M Univ., Weslaco, TX.
- Post-doc to study fungal pathogens in soybeans, Louisiana State Univ., Baton Rouge, LA.

GOPHER CROPS AND SOILS CLUB START-UP

The start-up meeting of the Gopher Crops and Soils Club will be held on Tuesday, October 4 at 5:00 p.m. on the Borlaug Hall Terrace on the third floor. Join them for hot dogs and watermelon.

SEMINARS THIS WEEK

- Tues. Oct. 4** **Plant Pathology Seminar**
What is happening with sustainable agriculture at the University of Minnesota?
Kent Crookston in 365 Borlaug Hall at 4 p.m.
Botany Seminar
Cloning and characterization of thioredoxin in cyanobacteria.
Florence Gleason, in B-70 Bio Science at 4 p.m.
- Wednes. Oct. 5** **Agronomy Seminar**
Differential response of corn genotypes to a sulfonylurea herbicide.
Charlotte Eberlein, in 306 Borlaug Hall at 4 p.m.
Lab Medicine and Pathology
Improving Laboratory Utilization.
Judith Barr in Eustis Amphitheatre at 8 a.m.
- Thurs. Oct. 6** **Plant Physiology Seminar**
A molecular analysis of gibberellic acid action.
Neil Olszewski, in 335 Borlaug Hall at 3 p.m.
Genetics and Cell Biology
Do transcription factors bind to telomeres?
Judy Berman, Dept. of Botany, in Rm 70 Bio Science at 4 p.m.
- Friday Oct. 7** **Soil Science Seminar**
Quantitative aspects of nitrogen cycling in soil ecosystems.
Dr. D. Myrold, Asst. Prof., Dept. of Soil Sci., Oregon State Univ., in 375 Borlaug at 11 a.m.
Graduate Student Colloquium
Lysine biosynthesis in maize - David Frisch; Effects of water deficits on seed set in maize - Chris Zinselmeyer; The role of cytokinins in maize kernel development - Beth Schreiber, in 306 Borlaug Hall at noon.

The Old Shell Game

By SOLOMON W. GOLOMB

Joe Sharpie is a master of the shell game. He "borrows" a coin from you and places it under one of his three cups, which he proceeds to scramble. After a series of deft moves, he knows which cup hides the coin, but you are completely baffled.

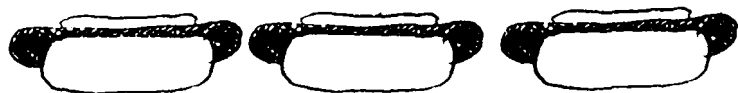
The rules are: you will point to a cup and he will remove one of the other two cups which he guarantees will not be the one hiding the coin. Now you get your coin back if you guess which of the two remaining cups covers it. Should you stick with the cup you pointed to, or switch to the other cup, or are both cups equally likely?

PUZZLE SOLUTION

Switch to the other cup!
When you made your original selection, it was one of three equally likely cups, so it had probably one-third, and that has not changed. By removing an empty cup, Sharpie has shifted all the remaining probability to that other cup, which now has a probability of two-thirds hiding your coin.

—Solomon W. Golomb

Statisticians do you agree with this?
Bob Robinson



Oct. 7, 1988

agronomy gleanings

Department of Agronomy and Plant Genetics

WINE AND CHEESE PARTY

Don't forget the Annual Fall Wine and Cheese Party for the Department of Agronomy and Plant Genetics will be held today at 4:00 p.m. in 306 Borlaug Hall. We will also have a dedication of the department artwork. Plan to attend!!!!

ATTENTION GROWTH CHAMBER USERS

We will be cleaning out the potting room and growth chamber area in Borlaug Hall the week of October 17. Please label and date all pots and flats you wish to keep. Everything not labelled will be disposed of. No pesticides should be stored in this area.

If the pesticides are yours, please move them to one of our 2 pesticide storage areas. After the clean-up, a meeting will be held to assign storage space for pots, flats, sand, etc. Thanks. Tom Warnke, Sue Nielsen, Charlotte Eberlein, Kevin Betts

ATTENTION PRESSURIZED CYLINDER USERS

People are leaving too many of the pressurized gas cylinders in the loading dock area of Borlaug Hall. If you have ordered a cylinder of gas pick it up immediately when it is delivered. If you are taking empty tanks down to the loading dock area make sure you have called for them to be picked up. Also, for safety reasons make sure any tanks at the loading dock area are chained to the racks. We have ordered another rack to hold these tanks.

KELLY WHITING INJURED

Kelly Whiting cut some tendons in his hand and required surgery. He is at home recovering. Flowers were sent by the department.

CHEMICAL STORAGE BUILDING PLANS

The planning document for the Agricultural Chemical Storage Building is on the front table in 411 Borlaug Hall. Anyone interested in perusing this document and offering suggestions to Deon Stuthman or Tom Warnke should do so within the next two weeks.

WELCOME TO NEW PEOPLE

Jim McFadden has joined the department as a postdoctoral research associate. He will be working with John Gronwald and Charlotte Eberlein on a project to characterize monooxygenases involved in herbicide metabolism. Jim spent the past year working on a similar project at the USDA-ARS Metabolism Lab, Fargo, ND. Jim, his wife Diane and son, Jonathan, reside in Minneapolis.

Abdul Kamanzi has joined Bob Stucker's wild rice breeding project as a graduate student working towards the Ph.D. Abdul has been an instructor and the Dean of the Agronomy Faculty at the University of Rwanda since 1983.

Lee Anne Murphy has joined Steve Simmon's physiology project as a visiting graduate student from the University of Manitoba in Canada.

Victor Nunez has joined Ron Phillips project to work on the M.S. degree. Victor is from Colombia, South America.

Jaakko Kangasjarvi has joined Burle Gengenbach's project to pursue the Ph.D. in Plant Breeding. Jaakko is from Kuopio, Finland.

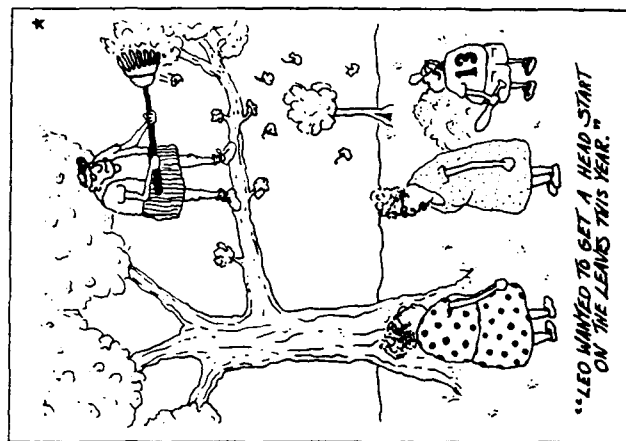
Kingsley Ayisi has joined Daniel Putnam's alternative crops project to work toward the M.S. degree in Agronomy. Kingsley is from Ghana, Africa.

Rosheila Vather has joined Robert Jone's project to pursue an M.S. in Agronomy. Rosheila is from South Africa.

Please welcome these individuals to the department.

SABBATICAL HOUSING WANTED

Professors Oren and Jennifer Anderson from Colorado State University will be spending sabbatical leaves at the U of M in the Departments of Chemistry and Food Science. They are interested in renting a house from January to June 1989. If you have anything available please call Larry Que at 5-0289 or 488-5172.



CALL FOR PROPOSALS FOR PROJECT MINNEMAC

We have received information on a Call for Proposals for Phase VI of Project MinneMac, the last phase of a three-year, one million dollar Macintosh equipment grant from Apple, Inc. to the U of M. The grant began 7/1/86 and will end 6/31/89. Faculty are requested to create innovative instructional software. Proposals are due by 4:30 p.m. on October 31, 1988. Check with Larry Smith for more information.

SOIL SCIENCE COLLOQUIUM FOR SPRING

Soil Science will offer a colloquium during spring quarter, 1989, on Soil Surface Chemistry. This will be a 1 credit colloquium given by Dr. Ed Nater. For more information call 5-1725 or stop by 558 Borlaug Hall.

FIRE ALARM TESTING

The fire alarms in the Agronomy Building will be tested on Monday, October 24 at 10:00 a.m. The fire alarm horns will sound during the test. If there is a problem with the day designated contact Martin Gerads at 4-2288 before Friday, October 14.

CONGRESSIONAL SCIENCE FELLOWSHIPS

ASA/CSSA/SSSA are accepting applications for the 1989 Congressional Science Fellowship program. The program is for outstanding M.S. or Ph.D. graduates, mid-career scientists, educators, or appropriate professionals to serve one year on the staffs of members of Congress, Congressional committees, or Congressional support agencies. Applicants are expected to be members of ASA/CSSA/SSSA. Check the bulletin board for further details on applying.

POSITION ANNOUNCEMENTS

- Asst. Prof. or Assoc. Prof. of Plant Molecular Biology, Dept. of Biology, Colby College, Waterville, Maine.
- Agronomist/Ecologist - Alternative Crops and Products, Dept. of Agronomy, Univ. of Missouri-Columbia, MO.

PLANT PATH FALL KICK OFF

Plant Pathology has invited faculty, staff and grad students from Agronomy, Soils and Plant Path to a Fall Kick Off Party on October 14 at 4:00 p.m. on the patio of Borlaug Hall. \$.50 for hot dogs/chips, beer and pop.

NO PROPOSALS FOR AM. SOYBEAN ASSOCIATION

The American Soybean Association will not be soliciting research proposals this fall because of a 30% drop in their income this year due to the drought. They may solicit proposals next spring in selected areas of emphasis.

SEMINARS

Monday

Oct. 10

PLANT BREEDING SEMINAR

Selection for partial resistance to pests and pathogens. Heidi Kaeppler in 408 Agronomy at 4:00 p.m.

FOOD SCIENCE SEMINAR

Buffer effects on aspartame decomposition.

J. Stamp in Room RScN 15 at 4:00 p.m.

Tuesday

Oct. 11

SOIL SCIENCE SEMINAR

Engineered organisms for environmental problems. Dr. In-Soon You, Microbiologist from Office of Toxic Substances, U.S. Environmental Protection Agency in 375 Borlaug Hall at 11:00 a.m.

PLANT PATHOLOGY SEMINAR

Why do rust fungi have so many types of spores?

John McCain in 365 Borlaug Hall at 4:00 p.m.

BOTANY SEMINAR

Cytokinins and early events in fruit development.

Dr. Mark Brenner in Room B-70 BioScience Center at 4:00 p.m.

Wednes.

Oct. 12

AGRONOMY SEMINAR

Current thinking on auxin mechanism of action. Chris Boerboom in 408 Agronomy at 4:00 p.m.

HORTICULTURE SEMINAR

Graphics as a Visual Aide. Kris Kohn, graphic artist from GCB, in 415 Alderman at 4 p.m.

Thurs.

Oct. 13

PLANT PHYSIOLOGY SEMINAR

Graduate Student and Faculty Wine and Cheese Mixer at 3:00 p.m. in 306 Borlaug Hall.

GENETICS AND CELL BIOLOGY

Molecular biology of nitrate reductase in Chlamydomonas.

Pete Lefebvre in Rm 70

BioScience at 4 p.m.

Friday

Oct. 14

GRADUATE STUDENT COLLOQUIUM

Effects of pratylenchus penetrans on N₂ fixation of selected alfalfa clones by Daniel Basigalup; Plant gene expression and N assimilation during alfalfa nodule development by Peggy Egli; Selection for imidazolinone tolerance in barley by Bob Buehler in 306 Borlaug Hall at 12 noon. Informal session, bring your lunch. Each session last 20 minutes.

October 14

agronomy gleanings

1988

Department of Agronomy and Plant Genetics

GROWTH CHAMBER USERS

The growth chamber area and potting room in Borlaug Hall will be cleaned out starting October 17. Anything not labeled and dated will be disposed of. If you have anything down there that needs labelling please do so immediately.

CHEMICAL STORAGE BUILDING PLAN

The planning document for the Agricultural Chemical Storage Building is on the front table in 411 Borlaug Hall. Anyone interested in perusing this document and offering suggestions to Deon Stuthman or Tom Warnke should do so within the next week.

THANK YOU NOTE

Dr. Eric Pott sent this note of thanks, "As was evident last Monday, the receipt of the Outstanding Achievement Award was an overwhelming experiencing for me. My wife and family join me in our wholehearted thanks to everyone who brought about the event. It will be long remembered for us."

THANK YOU NOTE

Thank you for the flowers. It was an unexpected pleasure to receive them. I am getting the cast off my hand on Monday and should be back at work soon.
Kelly Whiting

INTERNSHIPS IN SUSTAINABLE AGRICULTURE

The Land Institute will once again offer ten internships in sustainable agriculture for 1989. The Land Institute is located in Salina, Kansas. Check the bulletin board for more information on how to apply for these internships.

HARVEST CELEBRATION FOR FACULTY

Faculty are invited to a Harvest Celebration on November 16 from 4:00-6:00 p.m. in the McNeal Hall Lobby. Interim President Richard Sauer will speak at 4:30. Mark your calendars.



PRAIRIE TOUR FOR GOPHER CROPS AND SOILS

The Gopher Crops and Soils Club will hold a tour of the prairie on campus on Tuesday, October 18 at 5:00 p.m. Dr. Robert Mullin from the Horticulture Department will lead the tour. Join the group in 306 Borlaug Hall.

CENTER FOR INT'L FOOD AND AGRIC. POLICY

Attention Faculty: The Department of Ag. and Applied Econ. has established a new Center for International Food and Agricultural Policy. The Director of this new center is C. Ford Runge, Associate Professor. Dr. Runge has sent the following message to any faculty interested in this new Center. "Though it originated in this Department, our feeling always has been that it should foster interdisciplinary and interdepartmental work. I want to take this opportunity to invite any members of your faculty who may be interested in participating in the work of the center to join us. If anyone would like to have more information about the Center or about what "participation" implies, please call me at 625-9208. I would appreciate receiving indication of interest by the end of October." Check with Lynne in 411 Borlaug Hall for a brochure which explains the program and goals of the Center.

POSITION ANNOUNCEMENTS

- Extension Associate (NIR Forage Analyst), Depts. of Agronomy, An. Sci., and Dairy Sci. University of Missouri, Columbia.
- Director of the Duluth Center for Continuing Education and Summer Session and Assistant Vice Chancellor for Academic Administration at the University of Minnesota, Duluth.
- Chairperson, Department of Plant Biology, University of New Hampshire, Durham, NH.
- Professor and Head, Dept. of Agronomy and Soils, Auburn University, Alabama.
- Horticulturalist, Bachman's, M.S. in Horticulture with 5 years experience, to serve as consultant and expert in both indoor plant product, landscape and garden product. Minneapolis, MN.
- Asst. Professor, Dept. of Soil Science, North Carolina State University, Raleigh, NC.
- Assistant Dean for Resident Instruction in the College of Ag., Oklahoma State University, Stillwater, OK.

CERTIFICATION OF ORGANIC PRODUCTS

The Minnesota Dept. of Agriculture has designated the Organic Growers and Buyers Association of Minnesota as the organization charged with implementing and administering a system to certify organically-grown products in the state. Requirements for certification will comply with the Organic Foods Labeling Act passed by the Minn. Legislature in 1987.

BENEFITS FAIR

Faculty and Staff: Employee Benefits will hold a Benefits Fair on November 3 from 10:30-2:30 in the Northstar Ballroom at the Student Center. They will discuss health benefits and the tax deferred annuities program.

PESTICIDE APPLICATOR TRAINING

Faculty, Staff and Students:

Anyone who applies pesticides in a growth chamber, greenhouse, or field is required to receive training, and to be certified by the Minnesota Department of Agriculture. It has come to our attention that some people in our Department have not been certified to apply pesticides. These people should contact Tom Warnke who has study materials and information regarding the test dates. Call him at 5-3153 if you need this information.

BUSH SABBATICAL INFORMATION MEETING

There will be an information meeting for anyone interested in the Bush Sabbatical Program on Thursday, October 20 from 2:30-4:30 p.m. in the East Wing of the Campus Club.

POSTER WORKSHOP

The Agronomy Seminar Committee has planned a Poster Workshop for Wednesday, October 19 at 12:00 noon in 306 Borlaug Hall. Speakers will be Kris (Kohn) Kirkeby, Graphic Artist in GCB; Stan Dotson, and Peggly Egli, graduate students from our department. This session is open to all interested students, faculty of staff.

SEMINARS

Monday PLANT BREEDING SEMINAR
Oct. 17 In vitro selection for disease resistance using toxins. Ahmed Khurshid, in 306 Borlaug Hall at 4 p.m.
FOOD SCIENCE AND NUTRITION
Headspace gas chromatography for flavor quality of fluid milk. K. Christensen, in Room RScN 15 at 4 p.m.

Monday
cont.

SOIL SCIENCE SEMINAR

Effects of soil moisture and phosphate fertilization on iron chlorosis of sorghum. Pau Yong Yen in 375 Borlaug Hall at 3 p.m.

Tuesday
Oct. 18

PLANT PATHOLOGY SEMINAR

Entomology at the University of Minnesota.

Richard Jones, in 365 Borlaug at 4:00 p.m.

EXTENSION CLASSES SAMPLE LECTURE

Genetic engineering: Future promise/present problems.

Irwin Rubenstein, in Earle Bron Center at 7:30 p.m. Cost \$1.

Wednes.
Oct. 19

PHYSICS SEMINAR

Maxwell on Saturn's Rings.

Peter Harman, Univ. of Lancaster, in 131 Physics at 4 p.m.

BOTANY SEMINAR

Function and assembly of the yeast vacuole.

Elizabeth Jones, Carnegie Mellon Univ., Pittsburgh, in 239 Gortner at 12 noon.

HORTICULTURE & LANDSCAPE ARCH.

Interdisciplinary Research: Ho Hum or a New Synergy.

Harvey Scales, CIA Elected Studies, in 415 Alderman Hall at 4 p.m.

AGRONOMY SEMINAR

Tall fescue toxicosis and the fungal endophyte.

Paul Peterson in 306 Borlaug Hall at 4 p.m.

TECHNICAL COMMUNICATION

Master of Ag. Seminar:

Advantages and disadvantages of computer aided instruction in international development.

Carol Jubert in 224 Haecker Hall at 1 p.m.

Thurs.
Oct. 20

GENETICS AND CELL BIOLOGY

Muscle genes and the physical map of the *C. elegans* genome.

Bob Waterston, Washington Univ., Dept. of Genetics, in Rm 70 BioSci at 4 p.m.

PLANT PHYSIOLOGY SEMINAR

Does ethylene play a role in maize kernel development.

Jonathan Hanft in 335 Borlaug at 3 p.m.

Friday
Oct. 21

GRADUATE STUDENT COLLOQUIUM

Analysis and comparison of a closed and open system of recurrent selection in oats by Gary Pomeranke; Non-random

mating in wild rice populations by Bill Majerus, in 306 Borlaug at 12:00 noon. Bring your lunch.

agronomy gleanings

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1988

Department of Agronomy and Plant Genetics

GROWTH CHAMBER ROOM

On Monday, October 24 at 1:00 p.m. there is going to be a meeting for those of you who use the growth chambers in Borlaug Hall. We are going to be assigning space for storage of your pots, shakers, etc. and need to find out who owns the pots and other materials currently being stored in the potting room and between the growth chambers. Please send a representative from your project to the potting room in Borlaug.

FAIRGROUNDS WINTER STORAGE

The Judging Arena will be available for storage of project vehicles and equipment beginning November 1. Please let me know in writing, the date when your equipment will be available for storage. There will be 3 cars, 2 pickups, and 2 vans available for use during the winter months, so unless you have a daily need for transportation, plan to store your project vehicle. It also makes it easier to remove snow from the parking lots if there are no cars to clean around. Remember to winterize your vehicle before storage.

Tom Warnke

MINNESOTA GET-TOGETHER

The Minnesota Get-Together for the ASA meetings is scheduled to be held on Monday, November 28, 1988, 5:30-7:00 p.m., in the Grand Ballroom Salon E of the Anaheim Marriott Hotel.

MARK YOUR CALENDARS

The Department of Plant Pathology presents "Viroid Processing" by Dr. Theodor O. Diener, November 3, 1988, 4:00 p.m., 335 Borlaug Hall. Reception at 3:15 p.m. Everyone is welcome.

PLANT BREEDING & GENETICS FACULTY

I will be checking progress forms, so please update them. Thanks.

Don Rasmusson

PERSONAL SAFETY AWARENESS WORKSHOP

The Department of Agronomy and Plant Genetics is planning a Personal Safety Awareness Workshop (approximately 3 hours in length) with the Departments of Plant Pathology and Soil Science. To accommodate staff, duplicate workshops will be offered at different times.

We will be contacting Irene Greene and Mary Brandl to request that they each give a presentation. Irene Green has been involved for ten years in the anti-sexual assault movement. She was co-founder of the Sexual Assault Program in Northern Wisconsin, worked for two years in the Douglas County Prosecutor's Office with victims of crime, is currently the Program Director of the Sexual Violence Program at the University of Minnesota and is a therapist in private practice. Ms. Greene has a Masters Degree in Counseling with a concentration in counseling women. Mary Brandl is a 3rd Degree Black Belt with the Midwest Karate Association. She has worked with the City of Minneapolis Community Crime Prevention, taught Self-Defense as an accredited Physical Education course for the University of Minnesota and Carleton College, and was recently seen on the WCCO-TV Added Dimension segment on Self-Defense.

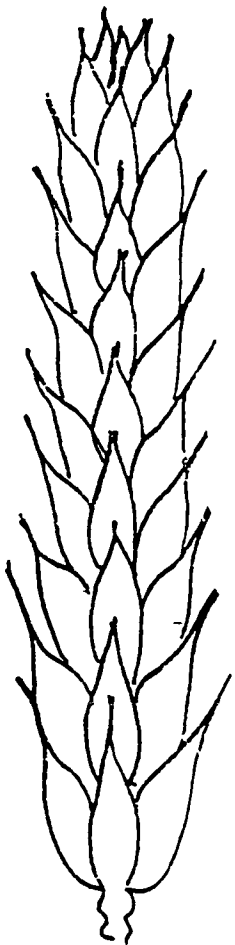
Please contact me by November 4th with your suggestions for dates and/or times.

Avis (5-1937), 411 Borlaug Hall

GRADUATE STUDENTS:

There will be Computer Room Orientation Sessions at 12:00 Noon on Monday, October 31 and Thursday, November 3 in the Grad Student Computer Room. The Computer Room Committee will display the available hardware and software, their uses, and offer other helpful hints. Sign up on the sheet on the bulletin board outside 411 Borlaug and indicate which session you will attend. Due to the size of the room, a maximum of eight people per session will be allowed.

On a clear disk, you can seek forever!



POSITION ANNOUNCEMENTS

- Ecologist Position, Agricultural Research Service, USDA-ARS, at Appalachian Soil & Water Conservation Research Laboratory, Beckley, West Virginia.
- Assistant Professor, Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI.
- Research Associate, Agronomy and Soils Department, Auburn University, Alabama.
- Extension Agronomist and Assistant or Associate Agronomist of Turfgrass Science, Washington State University Research and Extension Center, Puyallup, Washington.
- Agronomist--Conservation Tillage, Rodale Research Center, Kutztown, Pennsylvania.
- Area Extension Agent (Agriculture), Golden Plains Area, Burlington, Co., Cooperative Extension, Colorado State University, Fort Collins, CO.
- Extension Agent (Commercial Greenhouse), Adams County, Brighton, CO, Cooperative Extension, Colorado State University, Fort Collins, CO.

SEMINARS

- Monday**
OCT. 24
- PLANT BREEDING SEMINAR
Genetics of co-evolution and host-pathogen interactions. Debby Filler, in 306 Borlaug Hall at 4:00 p.m.
- FOREST RESOURCES
Stream biological and chemical linkages to watershed geology and land use. Tom Wilton, 100 Natural Resources Adm. Bldg. at 3:00 p.m.
- FOOD SCIENCE AND NUTRITION
Shelf stability factors of American grown hazel nuts. A. Pershern, in Room 15 FScN at 4:00 p.m.
- Tuesday**
OCT. 25
- ENTOMOLOGY SEMINAR
The relationship between population theory and the application of biological control. Dr. Robert Luck, University of California, Riverside, in Room 495 Hodson Hall, 2:30 p.m.
Refreshments, 2:45 p.m. Seminar.
- PLANT PATHOLOGY SEMINAR
Mechanisms of Root Penetration and Colonization by Plasmodiophora brassicae. David Johnson, Room 365 Borlaug Hall at 4:00 p.m.

Tuesday
cont.

ST. PAUL FORUM

A view from the Senate by Richard Sauer at 12:00 p.m., The Grainery Cafeteria Conference Room B, St. Paul Student Center.

Wednes
OCT 26

AGRONOMY SEMINAR

Maximum economics yield: Conceptual and practical considerations. Abdelfatah El Behri, Room 306 Borlaug Hall, at 4:00 p.m.

HORTICULTURE & LANDSCAPE

The influence of cultural factors on In Vitro tulip propagation. Charleen Baker, 416 Alderman Hall at 4:00 p.m.

ECOLOGY AND BEHAVIORAL BIOLOGY

Seasonal breeding in songbirds: Neuro-endocrine integration of photoperiodic and behavioral stimuli. Dr. G. Ball, Rockefeller University, Room 313 Zoology at 3:30 p.m.

ISSUES & IDEAS COMMITTEE

The Greenhouse Effect, Peter Ciborowski, Room 110 St. Paul Student Center, 12:00 Noon.

Thurs.
OCT 27

BOTANY & PLANT PHYSIOLOGY SEMINAR

Science and politics of bacterial ice-nucleation. Dr. Steve Lindow, Plant Pathology Dept., University of California, Berkeley, in Room 335 Borlaug Hall, at 3:00 p.m.

GENETICS & CELL BIOLOGY

Structure and function in RnaseP: a catalytic RNA. Dr. Norman Pace, Indiana University. Rm 70, Bioscience Center at 4:00 p.m.

NC FOREST EXP. STATION

Black bear behavior, habitat use, and "language": current knowledge and future research. Dr. Lynn Rogers, 2nd Floor Conference Rm, NC Forest Experiment Station at 10:30 a.m.

Friday
OCT 28

GRAD STUDENT COLLOQUIUM

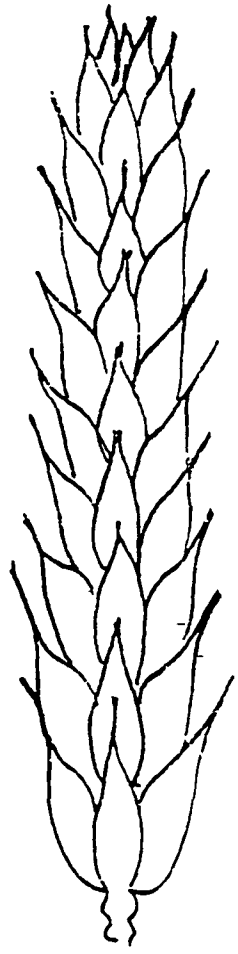
Sethoxydim tolerant corn mutants by Bill Parker; Ploidy and fat metabolism in sethoxydim-tolerant corn cell lines by Lori Marshall.

1989 Ag 86a

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Department of Agronomy and Plant Genetics



SEARCH FOR HEAD OF RHETORIC

Faculty - The search to fill the position of Head of the Dept. of Rhetoric in the College of Agriculture has officially begun. If you have any suggestions for potential candidates please contact Michael Boehlje, Head, Dept. of Ag. and Applied Econ. by November 15.

WINTER QUARTER CLASS SCHEDULES

Winter Quarter Class Schedules are available in Room 411 Borlaug Hall. Registration begins Monday, Nov. 7.

EYEGASSES FOUND OUTSIDE

Someone turned in a pair of eyeglasses with silver wire rims that were found right outside of the building. If

you have lost your glasses please stop by 411 Borlaug to pick them up.

CLOSE THE ELEVATOR DOOR

If you use the elevator in the Agronomy Building please be sure to close both the gate and the door when you leave the elevator. Otherwise the elevator will not work for the next person who needs to use it. Thank you.

WHERE ARE THE PROJECTORS?

If you have borrowed a slide projector from either 202 or 548 Borlaug please bring it back or let Teresa know that you have it. Otherwise, it appears we have had two projectors stolen. Make sure you lock the projector boxes if you use the projectors in any of the conference rooms. Some of the boxes have been left open.

TWO NEW DISPLAYS

Dr. Hardman has put up two new displays in the glass case on the second floor of the Agronomy Building. One is on the Rwanda project and the other is on Minnesota Ag. production statistics. Stop by and take a look. They both look great.

CHRISTMAS WREATHS

If you would like to order a wreath from the Cub Scouts for Christmas please contact Deborah Muenchrath or see the order forms in 302 Borlaug Hall. The wreaths come in two sizes 25" for \$8.00 and 36" for \$16.00. Orders are due by November 7 and wreaths will be delivered

COMPUTER ROOM USERS

The manual for Statview, a statistics program for the MacIntosh, has been removed from the computer room. Please return this manual for others to use. Also, there will be a computer room orientation session at 12:00 (noon) on Thursday, November 3 in the Grad Student Computer Room. The Computer Room Committee will display the available hardware and software, their uses, and offer other helpful hints. Sign up on the sheet on the bulletin board outside 411 Borlaug Hall. Due to the size of the room a maximum of eight people will be allowed in the session.

WATER QUALITY DISCUSSION

Dr. Roger Becker will be discussing Water Quality - Research Initiatives: Perspectives and Update at the Gopher Crops and Soils Club meeting on Tuesday, November 1 at 5:00 p.m. in 302 Borlaug Hall. Come and learn what is going on in water quality research at the U of M.

TURKEY RAFFLE IS FAST APPROACHING

Mark your calendars and get ready for the Grad Students Annual Turkey Raffle and Sloppy Joe Day on Wednesday, November 16 at noon.

COMPETITIVE RESEARCH GRANTS PROGRAM

The Ag. Experiment Station has received the Federal Register guidelines for the Competitive Research Grants Program for FY 1989. The program covers Plant Science, Biotechnology, Pest Science and Depletion of Stratospheric Ozone as related to crop productivity. If you want a copy of the announcement please contact Elsa Batica at 625-4211. The first deadline for Plant Pathology/Weed Science; and Plant Genetic Mechanisms and Plant Molecular Biology is December 5, 1988.

ATTENTION FACULTY AND STAFF

Employee Benefits will hold an Information Fair in the North Star Ballroom on Thursday, November 3 from 10:30 to 2:30. There will be representatives from the various health and insurance plans, the Minn. State Retirement System, and from Employee Benefits. Also, a presentation will be given on the new Reimbursement Accounts and on the Optional Tax Deferred Annuity Plan (Mills II) at 10:30 and 1:30.

POSITION ANNOUNCEMENTS

- Departmental Director for Center for Water and the Environment Natural Resources Research Institute at the Univ. of Minn.- Duluth.
- Professor and Head of the Dept. of Agronomy at the University of Nebraska - Lincoln, NE.
- Asst. or Assoc. Prof. of Corn Breeding (Molecular Genetics Emphasis), Univ. of Illinois, Dept. of Agronomy, Urbana, IL.
- Crops and Soils Extension Agent for Dane County in Wisconsin, Univ. of Wisconsin-Madison.
- 2 Postdoctoral Researcher Positions in Plant Molecular Biology, Louisiana State Univ., Baton Rouge, LA.
- Chairperson, Dept. of Agronomy, Univ. of Kentucky, Lexington, KY.
- Res. Associate, Dicot Gene Expression Lab, Dept. of Biotechnology Research, Pioneer Hi-Bred International, Inc., Johnston, Iowa.
- Assoc. Dean for Extension of the College of Agriculture and Assoc. Director of the Cooperative Extension Service, Univ. of Kentucky, College of Agriculture, Princeton, KY.
- Regional Director, Penn State Cooperative Extension, the Pennsylvania State University, University Park, PA.
- Extension Assistant/Associate for Pesticide Applicator Training and Certification, South Dakota State Univ., Brookings, SD.
- Postdoc in Plant Cytogenetics, Dept. of Agronomy, Univ. of Missouri, Columbia, MO.
- Postdoc Research Associate, Dept. of Horticulture, Oregon State Univ., Corvallis, OR.
- 4 positions at the Michigan State Univ.: Asst. Prof. in Plant Breeding and Genetics for wheat research; Asst. Prof. in Interfacial and Surface Soil Chemistry; Asst./Assoc. Prof. in Plant Breeding/Genetics to work on edible dry beans; Asst. Prof. for research in forage physiology.
- Research Associate, Plant Histologist, Dept. of Ornamental Horticulture and Landscape Design, Univ. of Tennessee, Knoxville, TN.
- Asst. Prof. - Mineral Nutritionist/Pomologist, U. of California, Davis, CA.

CROPS TEAM PLACES FIRST IN REGIONALS

The 1988 Upper Midwest Regional Crops Contest was held here on Saturday, Oct. 29. Our team placed first in the contest. The other participating teams were the Univ. of MN-Crookston, Univ. of WI-Platteville, and S. Dakota State Univ. Members of our team include Glenn Anderson, Bill Kukowski, Tom Kellen and Andy Sandkamp. The team is coached by Dr. John Gooding and Gary Hauser is the teaching assistant. Congratulations!

SEMINARS THIS WEEK

- Monday**
Oct. 31 SPECIAL SEMINAR
"Turgor regulation of sugar transport and assimilate partitioning"
Dr. Jaleh Daie, Rutgers Univ., at 12:00 noon in 306 Borlaug.
PLANT BREEDING SEMINAR
Measuring genetic diversity among popular commercial corn hybrids.
Gbadebo Olaye in 306 Borlaug Hall at 4 p.m.
- Tues.**
Nov. 1 PLANT PATHOLOGY SEMINAR
Interaction between departments and the Agricultural Experiment Station at Grand Rapids.
Dr. Robert Nyvall, Superintendent Grand Rapids Exp. Station, in 365 Borlaug Hall at 4 p.m.
BOTANY SEMINAR
Green Algae to land plants: and evolutionary transition.
Linda Graham, U. of Wisconsin, in 70 BioScience at 4 p.m.
- Wednes.**
Nov. 2 HORTICULTURE SEMINAR
Evaluation of solid waste compost as a media amendment for greenhouse use.
Julie O'Leary in 415 Alderman Hall at 4 p.m.
AGRONOMY SEMINAR
Alfalfa pasture bloat: Causes and solution strategies.
Nestor Juan in 306 Borlaug Hall at 4 p.m.
- Thurs.**
Nov. 3 ECOLOGY AND BEHAVIORAL BIOLOGY
The dynamics of secondary succession at Cedar Creek.
David Tilman in 313 Zoology at 3:30 p.m.
PLANT PHYSIOLOGY SEMINAR
Disease alters recurring non-random processes in plants.
Bill Kennedy in 335 Borlaug Hall at 3 p.m.
SPECIAL DISCUSSION
A special discussion session with Mark Seetin, Legislative Aid to Senator Rudy Boschwitz. He will discuss the farm bill; sustainable agriculture, water quality, Boschwitz support for USDA Competitive Grants, Fed. support for ag. research, in 306 Borlaug Hall at 9:30 a.m.
- Friday**
Nov. 4 SOIL SCIENCE SEMINAR
Competitive ability of *Rhizobium leguminosarum* bv. Phaseolii strains.
Lutz Antonio de Oliveira in S415 Soils at 2 p.m.
GRADUATE STUDENT COLLOQUIUM
Plant gene expression and N assimilation during alfalfa nodule development by Peggy Egli and Plastid DNA during maize endosperm development by Andrew McCullough in 306 Borlaug Hall at 12 (noon).

agronomy gleanings

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November 4,

1988

Department of Agronomy and Plant Genetics

SELF-DEFENSE TRAINING

Would you like to attend a training session in self-defense? Plant Path, Soil Science and Agronomy are planning a Personal Safety Awareness Workshop. If you would like to participate please contact Avis Kunkel in 411 Borlaug Hall (5-1937). This workshop is open to anyone in the department (students, staff, and faculty) and could be offered at different times to accommodate more people. Avis needs an idea of how many people are planning to attend. Please contact her by Tuesday, November 8.

NEW ST. PAUL PHONE BOOKS

Anyone who wants a new set of St. Paul telephone directories for their office should pick them up at the St. Paul Campus post office. They will not be delivered to the department this year as they have been in the past. Also, if you get new phone books recycle your old ones. A special recycling canister will be placed on the first floor of Borlaug.

PRACTICE PRESENTATIONS FOR ASA AND WSSA

Practice sessions for the ASA and WSSA meetings are scheduled for Monday, November 14 from 8:30 am to 12 noon in 408 Agronomy, and on Tuesday, November 15 from 8:20 to 3:00 p.m. in 408 Agronomy. Posters will be displayed for department inspection and discussion on Friday, November 18 in 306 Borlaug Hall from 1-5 p.m. The authors will be present at the poster session from 3-4 p.m. Drs. Putnam and Stucker are in charge of the sessions. The schedule is posted on the bulletin board outside 411 Borlaug Hall. Plan to attend these sessions. Your participation and suggestions will help the presenters to make improvements for their final presentations.

CIVIL SERVICE MEETING

Attention all Civil Service Staff in the Department: We will hold a meeting of all civil service staff in the department on Wednesday, November 9 at 11:30 a.m. in 306 Borlaug Hall. Plan to attend!

VOTING ON TUESDAY

On Tuesday, Nov. 8, a national election will be held. Minnesota Statute 204C.04 titled, Employees, Time Off to Vote provides that: "Every employee who is eligible to vote at a state general election or at an election to fill a vacancy in the office of United States senator or United States representative has the right to be absent from work for the purpose of voting during the morning of election day, without penalty or deduction from salary or wages because of the absence." Please also note the following points: 1) Only those employees who specifically request time off to vote are covered by this provision. The university is not closing down for any time. 2) Any time off granted to an employee for voting should be kept "reasonable." A supervisor receiving such requests has a perfect right to base permission on a reasonable estimate of how much time will be needed for the employee to travel to and from the polls, register, vote, etc. 3) The provisions of this Statute only apply to working hours occurring before 12:00 noon on election day.

SEALED-BIDS SALE AT ROSEMOUNT STATION

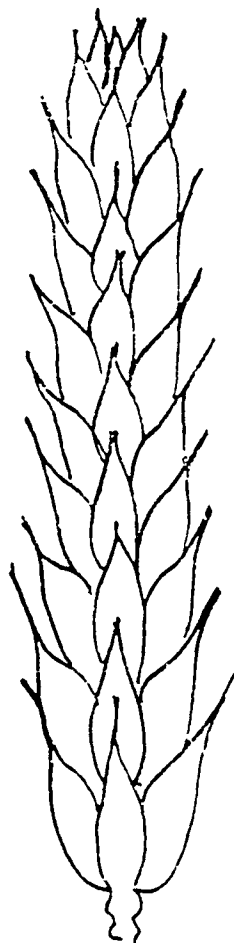
The Rosemount Experiment Station is offering several items for sale on a sealed-bid basis. The list is posted on the board outside 411 Borlaug Hall. Any individual can bid on these items. Bids are due at the Purchasing Department, 1919 Univ. by 3 p.m. on November 18.

ENTOMOLOGY CENTENNIAL OPEN HOUSE

The Department of Entomology will host an open house starting at 1:00 p.m. on November 8. They are celebrating 100 years as a department at the University of Minnesota. The open house will include an opportunity to visit with faculty, staff and students, a seminar, a historical display, refreshments and a movie.

GROWTH CHAMBER SUBCOMMITTEE

Membership on this subcommittee has changed following a recent meeting regarding growth chamber operation. The present membership is John Gronwald, Sue Miller, and Kevin Betts.



SEARCH COMMITTEE FOR THE BRUN POSITION

The Search Committee is composed of Burle Gengenbach (chairman), Peggy Egli, James Fuchs, Steve Gantt, Bob Jones, and Jim Orf. This will be a research-teaching, 12-month, tenure track, assistant professor position with a 75% and 25% appointment in the Departments of Agronomy and Plant Genetics and Plant Biology, respectively. The committee will keep the faculty in both departments informed of the progress of the search.

NEW BOOKS IN LIBRARY

The DuPont Company has contributed 2 3-volume sets of "Contributions to the Scientific Literature."

PH.D. THESIS DEFENSE

Jeanie Stamm Katovich will present her Ph.D. Thesis Defense, "A Characterization of Correlatively Inhibited Root Buds of Common Milkweed (*Asclepias syriaca*)", on Monday, November 7 at 9:00 a.m. in 306 Borlaug Hall.

POSITION ANNOUNCEMENTS

- Asst. or Assoc. Prof. in plant genetics/teaching/research at the Univ. of Nebraska, Lincoln, NE.
- Research Associate in water quality, North Carolina State Univ., Raleigh, NC.
- Assistant Prof. in Soil Physics/Soil Biophysics, Kansas State Univ., Manhattan, KS.
- Asst. Prof. of Horticulture, North Carolina State Univ., Raleigh, NC.
- Alfalfa Breeder, Pioneer Hi-Bred Intl. to work in Epuisseau, France. Apply to Johnston, IA.
- Asst. Prof. of Hort. Sci.-Weed Science, North Carolina State Univ., Raleigh, NC.
- On-farm research coordinator, Land Stewardship Project, Lewiston, MN.

SEMINARS THIS WEEK

- Monday** PLANT BREEDING SEMINAR
Nov. 7 Multi-stage selection indices in crop improvement.
Jacob Eta-Ndu in 306 Borlaug Hall at 4 p.m.
- FOOD SCIENCE SEMINAR
Improvement of the oxidative stability of thermally-abused cottonseed oil.
S. Clark in Rm FScN 15 at 4 p.m.
- SOIL SCIENCE SEMINAR
Yield notation history and a brief excursion into two agricultural revolutions.
Donald G. Baker in 375 Borlaug Hall at 3 p.m.

Tuesday
Nov. 8

ST. PAUL FORUM

Responsibility of the U of M in serving the people of the State: A view from the University.
Richard Sauer, Interim President, in Conference Room B of the Grainery Cafeteria in the Student Center.

PLANT PATH SEMINAR

Secondary metabolites in the fungus *Alternaria alternata*: a consideration of host specific toxins.

Robert Pawlosky, in 365 Borlaug Hall at 4 p.m.

AGRONOMY-PLANT PHYS. SEMINAR

Biochemistry of yield development in wheat.

Geoffrey Foxon, Jealotts Hill Research Station England, in 306 Borlaug at 1:30 p.m.

HORTICULTURE SEMINAR

Wednes.
Nov. 9

Investigations of the pollen-style interaction in *Lilium longiflorum* Thumb. using chlortetracycline and calcium antagonist.

Peter Velguth in 415 Alderman at 4 p.m.

AGRONOMY SEMINAR

Physiological basis of the primary dormancy in wild oat (*Avena fatua* L.) seeds.

Bennasseur Rzozi in 306 Borlaug Hall at 4 p.m.

Thurs.
Nov. 10

PLANT PHYSIOLOGY SEMINAR

Enhanced Symbiotic N₂ Fixation: Biochemistry and Molecular Biology.

Dr. Pat Unkefer, Los Alamos National Lab, Isotope and Nuclear Chem. Division, in 335 Borlaug Hall at 3 p.m.

GENETICS AND CELL BIOLOGY

The influence of Clark's nutcrackers on the genetic structure of whitebark pine populations.

Glenn Furnier, in Rm 70 BioScience at 4 p.m.

Friday
Nov. 11

GRADUATE STUDENT COLLOQUIUM

Evaluating on-farm research methodology as a procedure for diagnosing and improving the efficiency of corn/soybean production systems, Aziz El-Behri; and Canola production in Canada, Leanne Murphy in 306 Borlaug Hall at noon. Bring your lunch.

Nov 10 Ag 865

November 11, agronomy gleanings 1988

Department of Agronomy and Plant Genetics

CONGRATULATIONS

Congratulations to Ginger Peschke and Charles Armstrong who were married on Saturday.

HOSPITALIZED

Don Raiston's wife, Bonnie, will be in the hospital for the next 4-6 weeks.

SURGERY

PHIL Copeland had an appendectomy today. Flowers were sent by the department.

DEATH

Howard Rines father, Roy Rines, died last Saturday in Indiana. "On behalf of myself and my family here and in

Indiana I wish to thank the department for the flowers sent for my father's funeral. The many expressions of care and sympathy are greatly appreciated and help provide support in our loss."

Howard Rines.

HARVEST RECEPTION

Attention Faculty: Plan to attend the Harvest Reception on Wednesday, November 16 in 32 McNeal Hall from 4-6 p.m. Drs. Sauer and Allen will be present for informal comments and conversation. This is a good occasion for everyone to get together, have a drink, a bite to eat and have the opportunity to get to know one another.

RJR NABISCO NATIONAL SCHOLARS IN AG.

Twenty-two RJR Nabisco National Scholars in Agriculture and Life Sciences were selected in 1988 in the U.S.A. Two of these undergraduate scholarship winners came to the University of Minnesota and are enrolled in the Dept. of Agronomy and Plant Genetics. Please get to know Jane M. Grimsbo from Palisade, Minnesota, and Stephen R. Canner from Baltimore, Maryland. Orvin Burnside

PLANT BREEDING DISCUSSION GROUP

There will be a plant breeding discussion group Wednesday, November 16 at 7:00 p.m. It will be at Dr. Rasmusson's house. See the bulletin board outside 411 Borlaug for details.

CUT & DRIED FLOWERS NATIONAL SYMPOSIUM

The Center for Alternative Crops and Products and the American Society for Horticultural Science are sponsoring a national symposium entitled "Commercial Field Production of Cut and Dried Flowers". It will be held Dec. 6-8, 1988, at the Ramada Hotel in St. Paul. Current Univ. faculty and staff will receive a reduced rate of \$50. The rate for U of M students will be \$35. Contact Cathie Bergum at Extension Special Programs (625-2722) for further information.

GOBBLE, GOBBLE, GOBBLE

The Grad Club's Annual Fundraiser will be held Wednesday, November 16, in 306 Borlaug Hall from 11:45-12:45. The **EAGERLY-AWAITED** and **SUSPENSE-FILLED** Turkey Raffle will be held during the **MOUTH-WATERING** and **BELLY-WARMING** Sloppy Joe Lunch. The lunch costs \$2.00 for Sloppy Joe sandwiches, potato chips, carrots & celery, cookies and lemonade. Raffle tickets are 50¢ each, sold by grad students. Two turkeys will be raffled (one a home-grown Delzer family farm turkey - only 12 lbs. this year - that darn drought), along with other **FABULOUS PRIZES**. Lori Marshall



NORTHROP KING AWARD CEREMONY

Mark your calendar - the Northrup King Faculty Awards ceremony is scheduled for Friday, December 9 at 3:30 p.m. in 306 Borlaug.

FACULTY MEETINGS

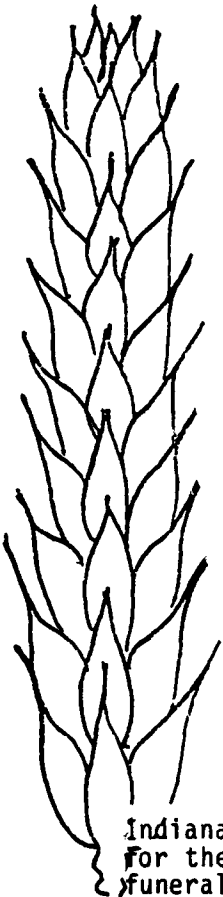
Attention faculty - the voting faculty will meet on Thursday, Nov. 17 in 408 Agronomy at 8:00 a.m.

The Crop Variety Review Committee will meet on Thursday, November 17 in 408 Agronomy at 1:00 p.m.

Faculty in Agronomy and Soils will meet on Friday, Nov. 18 at 8:15 a.m. in 306 Borlaug to discuss the new curriculums proposed by Project Sunrise for the COA. If you would like to read the proposals before the meeting copies are on the front desks in Agronomy and Soils.

DALE HICKS IN ANAHEIM

Dale Hicks is planning to be at the ASA meetings in Anaheim in November.



HOLIDAYS IN NOVEMBER

The University will be closed for the Thanksgiving holiday on Thursday, November 24 and Friday, November 25.

MISSING JOURNAL

We are missing a copy of Agronomy Journal, Vol. 79, No. 2, March-April 1988. Has anyone received a copy of this journal recently? Judy ordered a copy for the library to be bound and now it is missing. If anyone has a copy they would be willing to donate to the library please give it to Pat Kessler.

ADDITIONAL WINTER QUARTER CLASSES

These two courses were left out of the class schedule for winter quarter 1989: AGRO 8100 - Pasture and Forage Research Techniques; T, Th from 9-10:30 a.m. in 408 Agron.; (3 cr.; prereq. Stat 5021 or equiv., Agro 5010 or #). Register for this class using call number 455530. ANSC 8440 - Ruminant Nutrition, M,T,W,F from 12-12:45 pm in Rm B42 COB; (4 cr; prereq BioC 5002 or #, MicB 5321 recommended). Register for this class using call number 155367.

POSITION ANNOUNCEMENTS

- Ag. Agent for agronomy, soils, horticulture, farm management, pest management, etc. in Vernon County Wisconsin, U of Wis., Madison, WI.
- Physical Science Aid, USDA/ARS/Midwest Area, temporary full-time position in a lab on the St. Paul Campus. Contact Jan Overton in 40 North Hall.
- Res. Associate (Postdoctoral) - Hort. Science - Potato Breeding, Dept. of Hort., North Carolina State Univ., Raleigh, NC.
- Extension Assoc. Specialist or Specialist of Ornamental Horticulture, Dept. of Plant Sciences, Univ. of Arizona, Tucson, AZ.
- Five members for an agronomic systems team at Clemson Univ., specializing in agronomic ecosystems, physiological ecology of crop plants, soil fertility, crop ecology and management, soil managements, Clemson, SC.
- Asst. Prof. of Plant Molecular Biology, Dept. of Plant Science, Univ. of Delaware, Newark, DE.
- Extension Specialist, Pest Survey and Detection Program, Dept. of Entomology, North Carolina State Univ., Raleigh, NC.

FREE COPY OF AGRONOMY ABSTRACTS

Would you like a free copy of Agronomy Abstracts for the 1988 Annual Meetings in Anaheim? See Lynne in 411 Borlaug.

ASA PRACTICE SESSIONS

Don't forget the ASA practice sessions are scheduled for Nov. 14, and 15 and the poster session is Nov. 18.

SEMINARS THIS WEEK

**Monday
Nov. 14**

PLANT BREEDING SEMINAR

An evolutionary approach to potato breeding.
Fouzia Bani-Aameur in 306 Borlaug Hall at 4 p.m.

SOIL SCIENCE SEMINAR

Managing grazing land and water quality in central Mexico.
Clifton Halsey and Glen Warner in 375 Borlaug Hall at 3 p.m.

**Tuesday
Nov. 15**

INSIGHTS DISCUSSION SERIES

The economics of the drought. A discussion on how the drought will affect you.

Steve Taff, Extension Economist, in Rm 110 St. Paul Student Center at 12 noon.

**Wednes
Nov. 16**

INSIGHTS DISCUSSION SERIES

The Star of Bethlehem.
Karlis Kaufmanis, Prof. emeritus, Astronomy, Rm 110 St. Paul Student Center at 12 noon.

BOTANY SEMINAR

Function and assembly of the yeast vacuole.

Dr. Elizabeth Jones, Carnegie Mellon Univ., Pittsburgh, PA, in Rm 70 BioScience at 3 p.m.

AGRONOMY SEMINAR

Private industry and international development.

LaVerne A. Freeh, Vice Pres., Int'l Relations, Cenex/Land O'Lakes, in 306 Borlaug Hall at 3 p.m. Dr. Freeh will be available at 2 p.m. to meet with faculty and students prior to the seminar in 306 Borlaug.

HORTICULTURE SEMINAR

Tropical maize: A potential source of useful germplasm for sweet corn improvement.

David Rubino in 415 Alderman at 4 p.m.

**Thurs.
Nov. 17**

PLANT PHYSIOLOGY

Regulation of photosynthesis by Rubisco Activase.

Dr. William Ogren, Photosynthesis Res. Unit, USDA-ARS, Illinois in 335 Borlaug at 3 p.m.

GENETICS AND CELL BIOLOGY

Genetic and molecular analyses of the lin-12 gene of *C. elegans*
Dr. Iva Greenwald, Dept. of Biology, Princeton Univ., in Rm 70 BioScience at 4 p.m.

COA SEMINAR

The GAIT talks on agriculture: A report from Geneva.

Dr. C. Ford Runge, Director of the Center for Int'l Food and Ag. Policy, in the Cherrywood Room of the St. Paul Student Center at 3 p.m.

AIRLINE TICKET FOR ANAHEIM

We have received an airline ticket for someone named Gary Palmer. If you know who this is please tell Lynne in 411 BH.

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November 18,
1988

agronomy gleanings

Department of Agronomy and Plant Genetics

DALE HICKS WILL VISIT

Dale Hicks will be around the department next Wednesday, November 23. He will also be attending the ASA meeting in Anaheim, California.

UNIVERSITY CLOSED THURS & FRI

The University will be closed for Thanksgiving on Thursday, and Friday, November 24 and 25.

GRAD STUDENT COLLOQUIUM

If you didn't get a chance to fill out the "exit poll" at the last session of the grad student colloquium, there are more questionnaires on the bulletin board outside of Borlaug 411. We'd really like to know what you thought of the colloquium - your responses will help us to plan future events. Thanks - From The Colloquium Committee.

ROOMMATE NEEDED FOR ASA MEETING

Asafo-Adjei Baffour will be back in the U.S.A. in time for the ASA meetings and would like to find a place to stay while in Anaheim. If you need a roommate for the meetings please contact Baffour. He will be in the Department on Tuesday, or you could leave a message with Peter Sallah if you have something available.

CANDIDATE FOR USDA POSITION

Dr. Douglas Buhler will be in the department on Monday, November 21 and Tuesday, November 22 interviewing for the USDA Water Quality Position. He will present a seminar on Monday at 8:30 a.m. in 306 Borlaug Hall, "The Influence of Tillage Systems on Weed Population Dynamics and Control." Dr. Buhler is an associate professor at the University of Wisconsin.

MISSING JOURNAL

If anyone has a copy of the Weed Science Journal, Vol. 35, No. 6, 1987, that they would like to donate to the departmental library please see Pat Kessler. This copy is missing from the journals which will be sent to the bindery. Thank you.

SAVE THE DELIVER SLIPS

Judy must have all delivery slips from purchase orders, contract release orders and from Storehouse orders. Please comply with this request. Thank you.

ASA PRACTICE TALKS RESCHEDULED

Three ASA practice talks have been rescheduled for Tuesday, November 22,
9:00 a.m. Daniel Putnam
9:30 a.m. Phil Copeland
9:50 a.m. Robert Jones
in 408 Agronomy.

FAREWELL COFFEE

We have scheduled a farewell coffee for LeAnne Murphy on Wednesday, December 7 at 9:00 a.m. in 306 Borlaug Hall. LeAnne has been working with Steve Simmons and taking graduate courses during Fall Quarter. She is a graduate student at the University of Manitoba, Canada. She will be returning to her studies in Canada after fall quarter.

MIKE SCHMITT TO WORK SOILS DEPARTMENT

Dr. Mike Schmitt has accepted the Fenster extension specialist position in the Soil Science Department and will assume his new responsibilities January 1, 1989. He will honor over 25 county meeting requests that he has already accepted and he will handle telephone calls and letters on corn production until Dale Hicks returns on June 1, 1989. We appreciate the fine job that Dr. Schmitt has done in handling state extension responsibilities for corn production during these past 18 months. Thank you for a job well done Mike and we look forward to working with you in the future. Orvin Burnside

HOUSE FOR RENT

Furnished, three bedroom house 4.5 miles from campus in Roseville, Central Park School district (available February through April, 1989). For further information contact Dave Somers at 625-5769 (work) or 484-0716 (home).

FRANK FORCELLA MOVING TO CALIFORNIA

Frank Forcella, from Morris, MN, has accepted a new position in California and will no longer be an adjunct professor in our department.



Nov. 24—Thanksgiving

DEPARTMENTAL CHRISTMAS PARTY

Mark your calendars! The departmental Christmas party is scheduled for Friday, December 16 from 4-6 p.m. in 306 Borlaug Hall.

SELF-DEFENSE WORKSHOP

The Self-Defense Workshop will be held on January 6th. One session in the morning and one in the afternoon.

COFFEE FUND NEEDS YOUR SUPPORT

Our coffee fund is in trouble. Need I say more????????? Avis

CARS MOVED INSIDE FOR WINTER

Tom Warnke has moved the departmental vehicles inside for the winter. They are now housed in the east end of the Crop Service Building. The keys are still in Judy and Marilyn's office.

SEMINARS THIS WEEK

Monday

v. 28 PLANT BREEDING SEMINAR

Plant breeding research in

Amaranths.

David Miller in 306 Borlaug

Hall at 4:00 p.m.

FOOD SCIENCE SEMINAR

Study of rheological properties and phase transitions in starch-water systems during gelatinization at high pressure.

R. Reddy in Rm 15 FScN at 4 p.m.

FOREST RESOURCES SEMINAR

Performance of ectomycorrhizal Jack and Red Pine seedlings on iron mine spoils in northern Minnesota.

Vicki Raffle in 365 Borlaug

Hall at 3:00 p.m.

BOTANY SEMINAR

Colonization of *lypha* a

mycorrhizal fungus.

Dr. Iris Charvat in B-70

BioScience at 4:00 p.m.

ST. PAUL FORUM

"What is the responsibility of the U of M in serving the people of Minnesota: A view from the district."

John Marty, State Senator, in The Grainery Cafeteria at noon.

INSIGHTS PROGRAM

Dairying Downunder: The dairy industry in Australia and New Zealand.

Gerald Wagner, Extension Specialist, in Rm 110 St. Paul Student Center at noon.

Tuesday

v. 22

POSITION ANNOUNCEMENTS

- Asst. Vice President for Academic Affairs with responsibility for academic personnel, U of M, Mpls.
- Irrigation Agronomist, Niger Applied Ag. Res. Project - USAID Contract with Univ. of Nebraska-Lincoln in Maradi, Niger.
- Plant Physiologist - Asst. Prof., The University of Iowa, in Iowa City, IA.
- Three positions: Asst./Assoc. Prof. in Soil Chemistry; Asst./Assoc. Prof. in Soil Genesis; Asst./Assoc. Prof. in Crop Molecular Genetics, Department of Agronomy, Colorado State University, Fort Collins, CO.
- Asst. Prof., Agronomist, (Cropping systems research for cereal grains, legumes, grasses, rapeseed, new field crops) Columbia Basin Agricultural Research Center, Pendleton, Oregon.
- Asst./Assoc. Prof., Plant Genetics (Teaching/Research), Univ. of Nebraska-Lincoln, Dept. of Agronomy, Lincoln, NE.

INNOCENTS' REMARKS

Recently I educated my son on the health hazards of using too much salt. Lunching at our local diner, he tried to share this lesson with an elderly lady in the next booth. When she leaned over and asked, "May I please borrow your salt?" my son answered, "OK, but don't use too much or it might break your heart."

Restaurant Bloopers.

A woman had been a competitive gymnast in her younger days but now taught four- and five-year-olds. After demonstrating a forward roll, explaining every move until it was fully executed, she said, "Now, I want you to do exactly what I just did."

A youngster timidly asked, "OK, but how do we make our knees crack?"

Woman's World.

As I set the milk carton in our shopping cart, my son noticed the expiration date on the container. "It's the same as your birthday," he said. "Maybe that's predicting your future."

I gave him a puzzled look. "How's that?"

"Because on your birthday," he explained, "you're going to be spoiled, too!"

Mary Hunt Webb.

When our daughter Sarah began to crawl and investigate her surroundings, my husband kept reminding her five-year-old brother Thomas and six-year-old sister Jennifer to keep their small toys picked up and "out of harm's way."

After several days of frequent reminders, we overheard Jennifer say, "Look out, Thomas, here comes Harm."

Ann Rutkowski.

"Your methods are a century behind the times," said the pompous government expert to the veteran farmer. "I'd be surprised if you got a bushel of wheat to the acre out of that field."

"So would I," replied the farmer laconically. "That's barley."

There's a new mixed drink on the market. It consists of Christian Brothers' brandy and Folgers coffee. It's called ONWARD CHRISTIAN FOLGERS. *Liquorian.*

December 2,

agronomy gleanings

1988

Department of Agronomy and Plant Genetics

THANK YOU

Thank you all for the beautiful flowers sent while I was in the hospital. They were lovely. Phil Copeland

FAREWELL COFFEE

We will have a farewell coffee for LeAnne Murphy on Wednesday, December 7 at 9:30 a.m. in 306 Borlaug Hall. LeAnne is a visiting graduate student with Steve Simmons.

FAREWELL COFFEE

Tim Miller is leaving the department in December for a new position in Washington. We will hold a farewell coffee for him on Monday, December 12 at 9:30 a.m. in 306 Borlaug Hall.

FOUND CALCULATOR

The janitor found a calculator in Room 335 Borlaug Hall on Wednesday. If you have lost your calculator please stop by and check with Lisa in 411 Borlaug Hall.

PH.D. FINAL SEMINAR

Mike Benner will present his Ph.D. final seminar on Monday, December 5 at 9:00 a.m. in 408 Agronomy, "Methionine-Rich Storage Protein Accumulation in Maize (*Zea mays* L.): Genetic and Protein/Amino Acid Analysis." Mike will be leaving the department in December, he has accepted a postdoctoral position at the Waksman Institute of Microbiology at Rutgers University in New Jersey.

ENDOWED FELLOWSHIPS FROM GRAD SCHOOL

Graduate Students: Check the bulletin board outside 411 Borlaug Hall for information about Endowed Fellowships for 1989/90 through the Graduate School. Three of these fellowships should be of special interest to graduate students in plant sciences: The Alexander P. Anderson and Lydia Anderson Fellowship; Louise T. Dossall Fellowship in Science; and the Shevlin Fellowship.

FALL QUARTER FACULTY ASSEMBLY

The College of Agriculture will hold a Fall Quarter Faculty Assembly on Monday, December 5 from 10 a.m.-noon in 335 Borlaug Hall. Plan to attend.

HICKS QUARTERLY REPORT

Dale Hicks' quarterly report on his work in Morocco is available for review on the table in the Agronomy Library and in 411 Borlaug Hall. Dale will return to work in our Department around July 1, 1989. He will stay in Morocco for a couple of weeks longer than originally planned in order to finish the small grain harvest.

PLEASE RETURN NOTEBOOK

Avis is missing a 3-ring binder - reference manual - containing information on Civil Service Job Evaluation Questionnaires, Performance Evaluations, hiring procedures, etc. She loaned it to someone in the department but now she needs it back. If you have it please return it to her immediately. Thank you.

STUDENT ADVOCATE SERVICE

The Student Advocate Service has moved to a new office in 306B Nicholson Hall on the East Bank. Their phone number is 624-3369.

FAREWELL RECEPTION FOR SAUERS

A farewell reception for Richard and Elizabeth Sauer will be held on December 30 from 3-6 p.m. in the North Star Ballroom, St. Paul Student Center. All faculty, staff and students are welcome.

NEW UNIVERSITY PRESIDENT

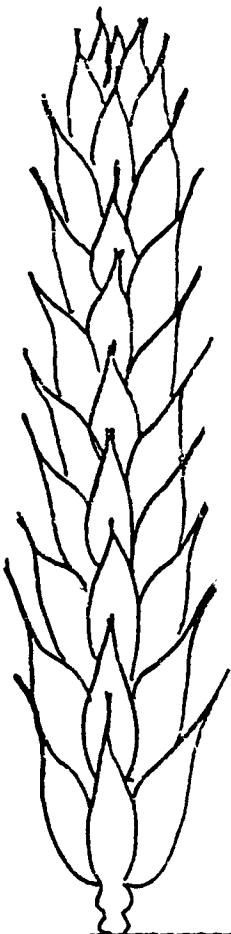
Nils Hasselmo has been selected as the new president of the University of Minnesota. A starting date has not yet been set.

CIVIL SERVICE MEETING

The civil service staff will meet on Tuesday, December 6 at noon in 306 Borlaug Hall for pizza and letter writing. Check with Suzanne Livingston or Teresa Schoeder for details.

NCWCC MEETING IN MINNEAPOLIS

The North Central Weed Control Conference will be held December 12-15 at the Minneapolis Marriott City Center in downtown Minneapolis.



POSITION ANNOUNCEMENTS

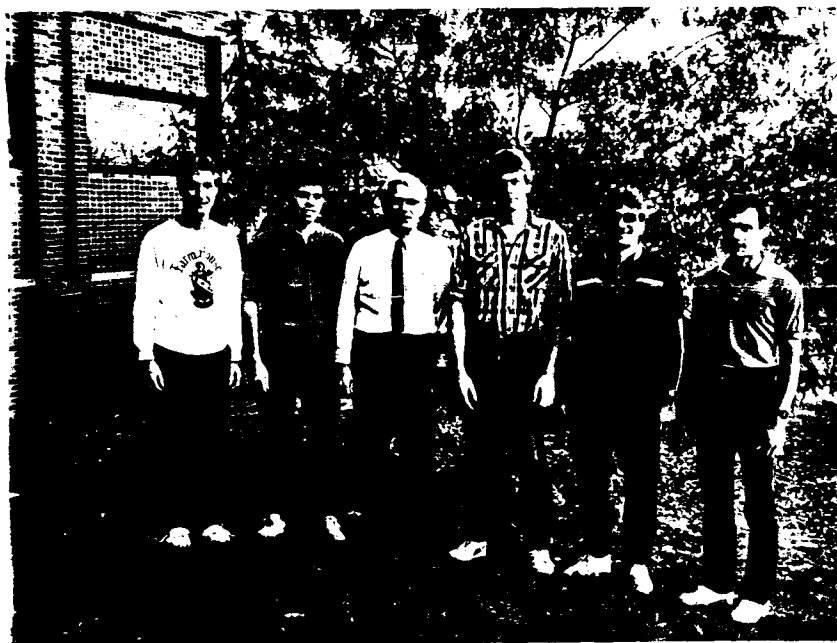
- Faculty position in plant molecular biology at the University of Missouri-Columbia, MO.
- Assistant Extension Specialist - Crop Pest Management, University of Minnesota, West Central Experiment Station, Morris.
- Asst. or Assoc. Prof, Dept. of Ag. Engineering, University of Georgia, Georgial Exp. Station, Griffin, GA.
- Two positions at Walt Disney World in Florida. Greenhouse operation and research support person (MS or BS) and Plant nutritionist (Ph.D.)
- Assistant Professor, Washington State University, Dept. of Horticulture and Landscape Arch., Pullman, WA.
- Asst. Professor, Plant Growth and Development, Botany Department, Washington State Univ., Pullman, WA.
- Plant Geneticist and Breeder, Asst. Prof. level, Dept. of Viticulture and Enology, University of California, Davis, CA.
- Extension Associate III - Agronomy (MS) to work with programs in groundwater contamination, Iowa State University, Dept. of Agronomy.
- Extension Specialist - Research Agronomist in Dryland Crop and Soil Management Systems, Univ. of Nebraska - Lincoln.
- Agronomist-Conservation Tillage; Rodale Research Center, Kutztown, Pennsylvania.

SEMINARS THIS WEEK

- Monday**
Dec. 5 **FOREST RESOURCES SEMINAR**
Forest ingrowth: What it is, why does it happen and how can it be modeled when forecasting forage change?
Stephen Shifley in 365 Borlaug Hall at 3:00 p.m.
- Wednes.**
Dec. 7 **HORTICULTURE SEMINAR**
Screening *Phaseolus vulgaris* L. *Phaseolus acutifolius* gray interspecific hybrids for drought tolerance.
Akil Petersen in 415 Alderman Hall at 4:00 p.m.
- Thurs.**
Dec. 8 **PLANT PHYSIOLOGY SEMINAR**
Recent advances in the understanding of biotin-containing proteins of plants.
Dr. Basil Nikolau, Dept. of Biochemistry, Iowa State Univ., in 335 Borlaug Hall at 3:00 p.m.

CROPS TEAM PLACED SECOND IN CHICAGO

The U of M - Twin Cities Collegiate Crops Team placed second in the 60th Chicago Collegiate Crops Contest in Chicago, Illinois on November 19. Bill Kukowski, a junior in Ag. Education and Agronomy, was high individual in the contest. Congratulations to the team.



Crops Team - 1988

L. to R. - Gary Hauser (TA), Andy Sandkamp, Dr. Joe Goodding (coach), Tom Kellen, Bill Kukowski, and Glenn Anderson.

The Agronomy & Plant Genetics Grad Club

presents

Mark Twain in India

Being an account of Twain's visit to India in 1896,
illustrated with magic lantern pictures of breathtaking
beauty.

by

Robert N. Andersen

(Twainologist, Indologist, and Sisypheanologist)

Friday Dec. 16, 1988 8:00 PM

Room 335 Borlaug Hall
St. Paul Campus, University of Minnesota

In which mention will be made of matters:
political, agricultural, religious, and aesthetic.
The Holy City of Benares and the Taj Mahal
will also receive proper attention.

A Splendid Orchestra

is in town, but has not been engaged.

Also

Magnificent Fire Works

were in contemplation for this occasion, but the
idea has been abandoned.

A Grand Torchlight Procession

May be expected; in fact, the public are privileged
to expect whatever they please.

Admission \$1.00 Proceeds will go to a local food shelf.

Coffee and cookies will be served
DOORS OPEN AT 7:30 PM THE TROUBLE BEGINS AT 8

17/12/88
December 9,

agronomy gleanings 1988

Department of Agronomy and Plant Genetics

CORRECTION

The farewell reception for Sauer is on December 20th, not December 30th. It will be held from 3:00 - 6:00 in the North Star Ballroom in the Student Center.

FAREWELL COFFEE

We will have a farewell coffee for Mike Benner on Thursday, December 15, at 9:30 a.m. in 306 Borlaug Hall.

FAREWELL COFFEE

Tim Miller is leaving the department in December for a new position in Washington. We will hold a farewell coffee for him on Monday, December 12 at 9:30 a.m. in 306 Borlaug Hall.

CURRENT ADDRESS

Robert B. Bertram
Agricultural Research
CGIAR Staff
U.S. Agency for International Development
Bureau for Science & Technology
Director for Food and Agriculture
Room 513D, SA18
A.I.D./S&T/FA
Washington, DC 20523

CONGRATULATIONS!!!!!!!

Gary Heichel has been selected as a Fellow in the 1989 National Leadership Development Program, National Center for Food and Agricultural Policy; Resources for the Future, located in Washington, D.C. Dr. Heichel will be in residence at the Center for two weeks in February, and for two weeks in March, 1989.

CONGRATULATIONS!!!!!!!

Dr. Neil Martin and Dr. Vern Cardwell were made Fellows at the American Society of Agronomy meetings. Also, Congratulations to Dr. Ron Phillips who received the Crop Science Research Award.

POSITION ANNOUNCEMENTS

- Extension Associate - Geological Survey Specialist, Soil Science, 50% time, Univ. of Wisconsin, Madison.
- Extension Specialist - 4-H and Youth Agent, Masters Degree required, Univ. of Wisconsin, Madison.
- Extension Faculty Position - Community Resource Development, Univ. of Wisconsin, Madison.
- Molecular Biologist/Floriculturist, Univ. of California, Davis Dept. of Environmental Horticulture.
- Research Associate - Soil Microbiology (Post-doctoral), Univ. of Arkansas, Fayetteville.
- Plant & Soil Science Graduate Research Assistantships, Univ. of Tennessee, Knoxville.
- Research Associate - Molecular Genetics Lab., Pioneer Hi-Bred Int'l, Inc., Dept. of Biotechnology Research, Johnston, Iowa.
- Physical Science Aid - USDA/ARS/Midwest area, Univ. of Minnesota, St. Paul.

SPECIAL SEMINARS

- Tuesday** SOIL SCIENCE SEMINAR
Dec. 20 Modelling in Agriculture.
Dr. Joseph G. Benjamin in 375 Borlaug Hall at 11:00 a.m.
- Wednesday** FOREST RESOURCES SEMINAR
Dec. 14 The Effects of Atmospheric Deposition on Forest Tree Growth.
Dr. Keith F. Jensen in the Conference Room 2nd Floor, North Central Forest Exp. Station at 10:00 a.m.
- Thursday** FOREST RESOURCES SEMINAR
Dec. 15 Northern Red Oak: Nonconformist of the Temperate Forest.
Dr. Patricia Tomlison in the Conference Room 2nd Floor, North Central Forest Exp. Station at 10:00 a.m.
- Thursday** SOIL SCIENCE SEMINAR
Dec. 22 Evaluation of NIRM on the Oaks, North Dakota, Lysimeters.
R. Samuel Alessi in 375 Borlaug Hall at 11:00 a.m.

MILEAGE REIMBURSEMENT
As of November 7, the mileage reimbursement for personal is .24 cents/mile.

DELIVERY SLIPS
Remember to turn in your delivery slips on all orders from the Storehouse and Vendors.

NCWCC MEETING IN MINNEAPOLIS
The North Central Weed Control Conference will be held December 12-15 at the Minneapolis Marriott City Center in downtown Minneapolis.

BORROWED EQUIPMENT
Those of you who have borrowed equipment from the Undergraduate Teaching Lab (for seminars, ASA meetings, Weed meetings) Please return items as soon as you have finished using them. Items include: slide trays, black slide mounters, white cotton gloves, transparencies & pens, slide projectors and the movie screen. If you need these items for extended periods of time, you may want to consider purchasing your own. Thank you.

Teresa Schoeder



CHRISTMAS WORD SEARCH

As you scramble to get your last minute Christmas shopping done, here's something to get you in the right mood.....

The following words are hidden frontwards, backwards and diagonally. Take a break and have some fun!

- | | |
|-----------|--------------|
| ANGEL | REINDEER |
| CANDLES | SANTA CLAUS |
| CAROLS | SLEIGH BELLS |
| CHURCH | SNOWMAN |
| COOKIE | STOCKING |
| EGGNOG | TREE |
| HOLLY | YULE |
| MISTLETOE | WREATH |
| ORNAMENTS | |

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Q W T Y U R E I N D E E R
K H S T N E M A N R O P I
C B L R G E J R M E T S P
A Y E E K G T V I X C A O
R Y I E J G H K S Z A N D
O C G O S N O W M A N T K
L H H G F O L D S Z D A T
S U B H C G L E I R L C A
W R E A T H Y U L E E L E
S C L H N B W L R T S A P
E H L D A N G E L S T U E
A F S K G N I K C O T S J
D M I S T L E T O E G G A
U P O E W R T V C D E S G

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HOLIDAY PARTY

Don't forget the Annual Holiday Party on December 16, from 4:00-6:00 p.m. in 306 Borlaug Hall. Donations are being taken by Lisa in 411 Borlaug.

agronomy gleanings

Department of Agronomy and Plant Genetics

CHRISTMAS EVENTS GALORE

Today - Departmental Christmas Party from 4-6 p.m. in 306 Borlaug Hall featuring home-made goodies and an ornament contest. Cost: donations of \$3 for individuals, \$4 for couples.

Tonight - Dr. Robert Andersen will present "Mark Twain in India", a lecture-slide show at 8:00 p.m. in 335 Borlaug Hall. Fund-Raiser for a local food shelf (suggested donation \$1). Refreshments will served. Doors open at 7:30 p.m.

Wednesday, December 21, the Agronomy secretaries will have a cookie open house in the office featuring Christmas goodies coffee and cider. Stop by any time.

Thursday, December 22, is the 12th Annual Crops Research Christmas Party at noon in the corn room, #28. This is a pot luck lunch - each person should bring an item to share (baked beans, salad, pie, etc.) and their own silverware and a cup. They will furnish ham, coffee, and plates. The cost is \$3.50 (sign up in the oat room, #10, by December 21). Extra money will be used for door prizes.

FIRE ALARM TESTING

The fire alarms in Borlaug Hall will be tested on December 28/29 starting at 10:00 a.m. each day. The fire alarm horns will sound during the test.

FUND FOR FRED MUTISYA'S FAMILY

This is a reminder that I am collecting contributions for Fred Mutisya's wife Jacinta and their two children. Fred earned his Ph.D. degree on the corn project in 1986 and had returned to Kenya, where he was killed in a car accident this spring. If you would like to make a contribution to help Fred's family, please talk to me (phone 5-1208) or leave a note in my box. Thank you.
Virginia Peschke

CHARTER BUS AND INTER-OFFICE SHUTTLE

University transit offers these two services: 1) a charter bus service with 4 different types of buses from mini-buses to luxury coaches. Call 5-7800 for information; 2) an inter-office shuttle bus providing free transportation between the Administrative Services Center at 1919 University and both the Minneapolis and St. Paul campuses from 8 a.m. to 5 p.m., Monday through Friday. Call 5-9000 for a schedule and route map.

FAREWELL RECEPTION FOR SAUER

The farewell reception for Richard and Elizabeth Sauer is scheduled for Tuesday, December 20 in the North Star Ballroom, from 3-6 p.m.

THANK YOU NOTE

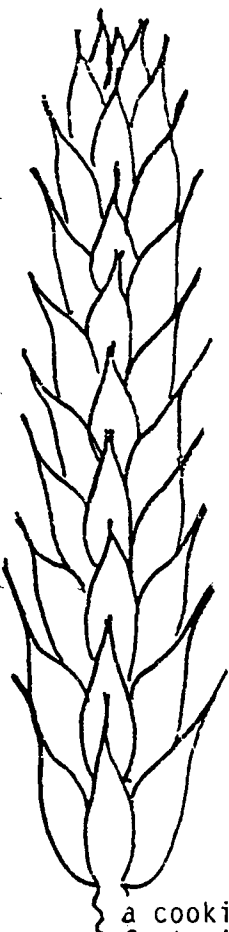
Judy and I and a number of Hmong families say a big thank you to all who generously purchased some needlework. So far sales have exceeded \$300 and will brighten the Christmas of a number of people. A special thanks to Lisa for a super sales job. Deon Stuthman

CHANGES IN CAMPUS MAIL

Support Services and Physical Plant have agreed that as of Jan. 1, 1989 Support Services will operate all campus mail services on both Twin Cities campuses. The final details have not all been worked out but some of the possible changes will be two pick ups and two delivers each day. All currently employed Campus Mail, St. Paul staff will be retained. If you have questions please contact Neil Bakkenist at 5-5878.

HOLIDAY CLOSINGS

The University will be closed for the Christmas holidays on Friday, December 23 and Monday, December 26. It will be closed for the New Year's holiday on Friday, December 30 and Monday, January 2. Have a good and safe holiday season!!



RECRUITING LETTER CONTEST

Attention Faculty: We have received only one entry in the recruiting letter contest for the Ordway Tickets (and he wrote six letters). We need competition or "you know who" is going to win. "You know who" needs the culture of attending an event at the Ordway but we should try to give him some competition. Get your letters in soon.

SEMINARS

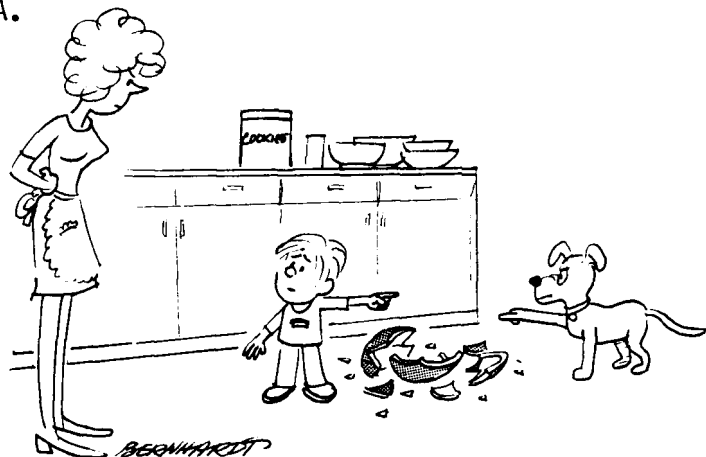
- Monday** SOIL SCIENCE SEMINAR
Dec. 19 A comparison of dical-super and superphosphate as phosphorus fertilizers for temperate pastures.
Cameron J.P. Gourley at 3:00 p.m. in 375 Borlaug Hall.
- Tuesday** SOIL SCIENCE SEMINAR
Dec. 20 Modelling in agriculture.
Dr. Joseph G. Benjamin, Iowa State University, at 11:00 a.m. in 375 Borlaug Hall.
- Thurs.** SOIL SCIENCE SEMINAR
Dec. 22 Evaluation of NTRM on the Oakes, North Dakota, Lysimeters.
R. Samuel Alessi, North Dakota State University, at 11:00 a.m. in 375 Borlaug Hall.

NORTHROP KING AWARD

Neal Martin and Carroll Vance received the Northrup King Outstanding Faculty Performance awards for 1988 on Friday, December 9. Neal received the education award, and Carroll received the research award. Congratulations to both.

POSITION ANNOUNCEMENTS

- Forage agronomist, Research Station, Manitoba, Canada.
- Asst. or Assoc. Professor, Dept. of Crop Science, Extension Seed Certification Specialist and Project Leader, Oregon State University, Extension Service, Corvallis, OR.
- Asst. Professor, Extension/Research Seed Production Specialist, Oregon State University, Extension Service, Corvallis, OR.
- Farm Advisor-Plant Sciences Contra Costa County, educational and research programs with producers and other clientele in fruits, nuts, grapes, vegetable and field crops. University of California, Oakland, CA.
- Several Internship Opportunities with the Nature Conservancy, Glyndon, MN.
- Postdoctoral Research Associate, to work with herbicide antidotes, Washington State University, Pullman, WA.



December 29

msw
9/19/86

agronomy gleanings 1988

Department of Agronomy and Plant Genetics

THANK YOU

I'd like to thank everyone in the Department for making me feel like one of you during my recent stay. The kindness and friendship shown by all of you will remain with me always. I offer an invitation for one and all to come up to Canada and see the canola in bloom.
LeeAnne Murphy

NOTE FROM BURNSIDES

Orvin and Delores Burnside wish all of you a joyous 1989. We want to thank you for your many expressions of concern about Delores' health. Her chemotherapy treatments have caused the liver tumors to disappear, but in the process she has suffered considerable liver damage. She has been undergoing surgery for the past two days and will go in for further surgery today in an attempt to open the main duct in her liver. If this procedure is successful we hope she will enjoy a more normal life. We will keep you informed, and thanks again for you thoughtfulness.
Orvin Burnside

BRANCH STATION PLANNING CONFERENCE

Mark your calendars! The Branch Station Planning Conference will be held January 17-18 here in Borlaug Hall. This year's theme is Water Quality. The annual dinner is scheduled for Tuesday, January 17 at the Cedarwood Inn at 6:00 p.m. RSVP and preference for steak or walleye pike are needed by January 12.
Thanks - Deon Stuthman

HOLIDAY GREETINGS

Herb Johnson sends holiday greetings to everyone in the Department from Arizona (where it is currently 80°).

Harold Scott sends holiday greetings to his friends in the department. He was sorry he couldn't make it to the Crops Research Christmas Party.

FACULTY SINGLE QUARTER LEAVES

Tenured and probationary faculty are encouraged by the College of Agriculture to consider applying for a single quarter leave. Single quarter leaves are "designed to forward special studies, research, scholarly writing, and self-improvement programs that will enrich and strengthen individual knowledge and understanding of scholarship and/or university teaching". The University will fund 10 College of Agriculture faculty on full salary for single quarter leaves next year. Quarter leaves do not have to involve travel. The original and nine copies of your application are due to the attention of Deb Cran in the College of Agriculture Office no later than Wednesday, January 18.

PERSONAL SAFETY AWARENESS WORKSHOP

Two personal safety awareness workshops are scheduled: Session I: Friday, January 6, 1989 from 8:30-11:30 a.m. in 306 Borlaug Hall and Session II: Friday, January 6, 1989 1:00-4:00 p.m. in 365 Borlaug Hall. Presenters will be Irene Greene and Anita Bendickson. The workshops will covers such things as: What areas have you identified as unsafe in your workplace? and, What is needed to make these problem areas safe? Reservations for the Personal Safety Awareness Workshop can be made by calling 5-8200 by Wednesday, January 4.

ATTENTION COPY MACHINE USERS

Do not use the copy machine with the cover up. We have been having some problems with the machine and the copy repairman says it may be caused by people leaving the cover up when copying.

TAX MEMO

Attention graduate students: For those of you who received the memo from Payroll regarding your W-2 tax statement. The memo is in error. "Personal Use of University Vehicles" is actually tuition. The Graduate Assistants Office said they will issue a memo next Tuesday to explain the first memo.

GREATER MINNESOTA CORPORATION GRANTS

I have received a set of guidelines for the Greater Minnesota Corporation's "Agriculture Energy Savings Program". Letters of intent are due to GMC January 14 and detailed proposals are due February 14. Under this program, you can apply for grants of up to \$100,000 to fund projects that develop and publicly demonstrate new techniques for reducing energy and chemical use on Minnesota farms. See me for further details.
Avis

HOLIDAY CLOSINGS

The University will be closed for the New Year's holiday on Friday, December 30 and Monday, January 2. Have a good and safe holiday season!!



GOLD LABELING WORKSHOP VIDEOTAPE LIBRARY
 All of the Minnesota Electron Microscopy Society (MEMS) April 1988 Gold Labeling Workshop lectures and laboratory sessions were videotaped onto 4 VHS video cassettes. The total viewing time is about 13 hours. A syllabus includes a description of topics covered on each tape and an index used to locate the beginning of each lecture or lab. A set of tapes is available for viewing at: the Plant Pathology Library, 395 Borlaug Hall (5-6977) (These tapes do not circulate and may not be checked out.) Tapes can be checked out from the Electron Optical Facility, 10 Christensen Hall (formerly Plant Sciences) (5-8249 - contact Gib Alstrand). The tapes contain a wealth of good information. All researchers and microscopists doing gold labeling or planning to begin labeling experiments are encouraged to make use of this valuable resource maintained by MEMS.

FEDERAL REGISTER OF SPECIAL GRANTS
 We have received a copy of the Federal Register notice of the Special Research Grants Program for FY 1989. See Lynne in 411 Borlaug if you would like to look at it. If you need copies of the application kit please call Elsa Batca at 625-4211.

RFF SMALL GRANTS PROGRAM
 Resources for the Future (RFF) each year awards several small grants for the support of research on issues related to the environment, natural resources, or energy. The program is intended to address a need that is not now being met by most funding agencies, which tend to emphasize large projects and require complex lengthy applications. RFF's Small Grants Program provides start-up funding for new projects or supplementary support to complete specific aspects of ongoing projects. Proposals for RFF small grants may deal with theoretical or applied topics, but they must be focused on research. The maximum grant will be \$30,000 including overhead, but most grants will be for smaller amounts. Projects should run for at least two months and not more than two years. The deadline for applications is March 1, 1989. Awards will be announced in April 1989. See the bulletin board outside 411 Borlaug Hall for details. For further information and application forms write to Ms. Helen Marie Streich, Resources for the Future, 1616 P Street, N.W., Washington, D.C. 20036, (202-328-5000).

SEMINARS
Wednes. Jan. 4 ECOLOGY AND BEHAVIORAL BIOLOGY
 Vegetation response to past climatic changes in the Northwestern USA.
 Dr. C. Barnosky, Division of Earth Sciences, Carnegie Museum of Natural History, in 313 Zoology Building at 4:00 p.m.
TECHNICAL COMMUNICATION SEMINAR
 Dissemination of dairy product import information.
 Roger Kittelson, Master of Ag. Student, in 239 Classroom Office Building at 1:00 p.m.
Thurs. Jan. 5 PLANT PHYSIOLOGY SEMINAR
 Regulation of nitrate utilization in corn seedlings.
 Dr. Ann Oaks, Biology Dept., McMaster University, in 335 Borlaug Hall at 3:00 p.m.

POSITION ANNOUNCEMENTS
 - Asst. Prof. of Soil Physics, Dept. of Agron. and Hort., New Mexico State Univ., Las Cruces, NM.
 - Asst. or Assoc. Prof. of Soil Science, School of Agriculture, The University of Tennessee, Martin, TN.
 - Internships for 1989 at Rodale Research Center, Kutztown, PA.
 - Field Research Manager (Ph.D. or M.S.), and Research Tech. (B.S. or M.S.), Agricultural Custom Research Experimental Services (ACRES) in Cedar Falls, IA.
 - Research Specialist (M.S. or B.S.), Southwest Research and Extension Center, Univ. of Arkansas, Hope, AR.
 - Asst. Prof., vegetable crops. Horticulture and Landscape Architecture, Washington State Univ., Pullman, WA.
 - Asst. Prof., Plant Molecular Biology, Dept. of Horticulture and Landscape Architecture, Washington State Univ.
 - Farm manager (B.S.), Ridgeway Enterprises in Monticello, Minnesota. Write to Jim Ridgeway, P.O. Box 125, Monticello, MN 55362. Farm back-ground to work on corn, soybean, irrigated and non-irrigated.
 - Res. Assoc., Soil Testing Lab., Agron. Dept., Colorado State Univ., Fort Collins, CO.
 - Area Extension Agent, Southeast Research/Extension Area, Colorado State University, Lamar, CO.
 - Asst. Prof., Agro-Ecologist to work with microbially mediated nutrient cycling in soil. Univ. of Georgia, Institute of Ecology, Athens, GA.
 - Farm Advisor/4-H Youth Advisor, Univ. of California, Oakland, CA.
 - Post-doctoral scientist to conduct research in the area of forage carbohydrate composition and digestion, USDA-ARS, the Ruminant Nutrition Lab at Beltsville, MD.

January 6,
1989

agronomy gleanings

Department of Agronomy and Plant Genetics



THANK YOU

Friends in the Agronomy Department: Thank you for all the beautiful flowers delivered to my room during my recent surgery. I am grateful for the visits, calls and series of get well cards. Glad to be back in school again!!! Gbadebo Olaoye

HAYES AWARD

Peggy Egli has been selected as this year's H.K. Hayes Graduate Student Award recipient. The award is based on scholarship, research competency, and leadership. Presentation of the award will be at the H.K. Hayes Memorial Lecture on April 3, 1989. (Please mark your calendars) The lecturer will be Dr. Garrison Wilkes, Boston

College, University of Massachusetts-Boston, speaking on plant exploration.

PROFESSIONAL DEVELOPMENT WORKSHOP

Graduate Students: Plan to attend the Professional Development Workshop on Saturday, February 11, 1989, 9:00 am-2:30 pm. Schedules and registration forms will be distributed soon. This year's topics are: Stress Management, by University Counseling Services; Science Writing for the Public, by Pioneer Press science reporter Walter Parker; Technical Writing, by Dr. Robert Andersen, and another topic to be announced.

GRAD STUDENT ASSOCIATION WINTER MEETING

The winter meeting of the Graduate Student Association will be held on Friday, Jan. 13, 1989, at 3:30 pm in room 408 Borlaug Hall. All graduate students are encouraged to attend. Anyone who has something to report should contact Bob Buehler or Brent Delzer if they have not already done so.

THANK YOU FOR YOUR DONATIONS

The Graduate Student Association sponsored a presentation of "Mark Twain in India" by Dr. Robert N. Andersen. Proceeds from the talk amounted to \$116.00 and were donated to the St. Paul Foodbank. Thanks to all those who attended and donated.

BORROWED EQUIPMENT

Those of you who have borrowed equipment from the Undergraduate Teaching Lab, PLEASE return items as soon as you have finished using them. Items include: slide trays, transparencies & pens, slide projectors and the movie screen. If you need these items for extended periods of time, you may want to consider purchasing your own!

Teresa Schoeder

FRENCH CLASSES TO START

The ongoing French Language classes will again be offered to faculty, staff, graduate students and their spouses at five levels during Winter Quarter. Classes start on Monday, January 9. Check the bulletin board for more information.

SEMINARS

**Monday
Jan. 9**

PLANT BREEDING SEMINAR

Methods for identifying germ-plasm to be used to improve parents of single cross hybrids. Hakima Bahri, in 306 Borlaug Hall at 4:00 p.m.

SOIL SCIENCE SEMINAR

Life without water: A discussion of anhydrobiosis in nematodes.

Monica Wallace, in 375 Borlaug Hall at 3:00 p.m.

PLANT PATHOLOGY SEMINAR

A molecular analysis of the stress response of Neurospora crassa.

Dr. Nora Plesofsky-Vig, in 365 Borlaug Hall at 4:00 p.m.

**Thursday
Jan. 12**

PLANT PHYSIOLOGY

Structural and functional alterations of plant cell membrane during pathogenesis: Case history-hypersensitive reaction to plant pathogenic bacteria.

Dr. Anton Novacky, Univ. of Missouri, Dept. of Plant Path. in 335 Borlaug Hall at 3 p.m.

LAB MEDICINE AND PATHOLOGY

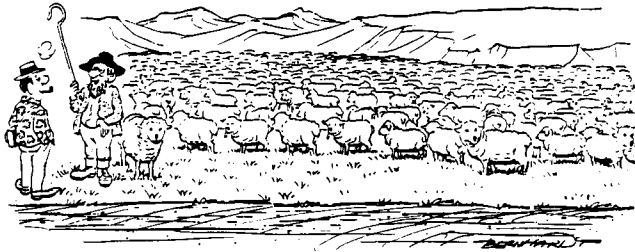
Chromosomal changes seen in fumigant industry workers. Dr. Vincent Garry in Eustis Amphitheatre at 8:00 a.m.

COUNSELING SERVICES

University Counseling Services offers support groups in dissertation/thesis support; anti-procrastination; grief/loss; and men's issues. Call 4-3323 for more information. They also offer classes in self-hypnosis.

HOLIDAY

The University will be closed on Monday, January 16th in observance of Martin Luther King's Birthday.



"I don't know how many there are. Never been able to stay awake long enough to count 'em all."

• What we anticipate seldom occurs; what we least expected generally happens.

—Benjamin Disraeli
(1804-81)

Surprise!

• When the anesthetic wore off:

Patient: "Well, Doctor, was my operation a success?"

Person in white: "Sorry, Sir, but I'm not your doctor, I'm St. Peter."

• This downhill path is easy, but there's no turning back.

—Christina Rossetti
(1830-94)

• A stand can be made against invasion by an army; no stand can be made against invasion by an idea.

—Victor Hugo
(1802-85)

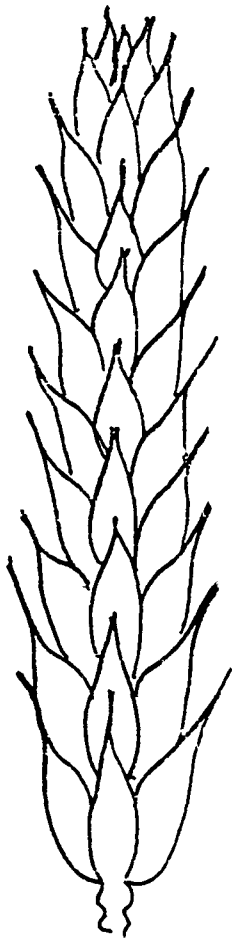
• A polite man is one who listens with interest to things he knows all about when they are told him by a person who knows nothing about them.

—Philippe Duplessis-Mornay
(1549-1623)

7111 5 Feb 89
January 17,

agronomy gleanings 1989

Department of Agronomy and Plant Genetics



THANK YOU

We want to thank Dr. Vern Cardwell for spending 3 hours last Saturday morning cleaning out the refrigerator and cleaning up the coffee room in 302 Borlaug Hall. Presumably various food items had been accumulating for some time. Please help keep the kitchen clean, especially those of you that use it regularly.

Orvin Burnside

NEW STUDENTS

We have two new graduate students in the Department. Steve Plehn is from Waukesha, Wisconsin. His office is 413 Agronomy. Frantz Clotaire is from Haiti. His office is 413 Agronomy. Both of these students are working toward the M.S. with Dr. Jim Orf on the Soybean Breeding Project. Please welcome them to the Department.

DOUGLAS BUHLER - NEW ARS WEED SCIENTIST

Gordon Marten was informed on January 9 that Dr. Douglas Buhler, University of Wisconsin, has accepted the weed scientist position formerly held by Robert Andersen. He plans to start his new research project, which features the development of weed management practices that reduce the movement of herbicides to ground water, on March 13, 1989. Dr. Buhler and his wife visited last week and will return intermittently between now and March to locate housing. Mrs. Buhler will also be seeking employment in the Twin Cities. Thanks to all of the faculty, students and support personnel who aided in the recruitment process for this very important position.

CONGRATULATIONS TO ERIC

Congratulations to Eric Ristau who was recently promoted from Associate Scientist to Scientist in recognition of his increased responsibilities on the Forage Quality and Utilization Project.

PEOPLE GOING TO MOROCCO WINTER QUARTER

Three people from our department will be traveling to Morocco during winter quarter: Robert Stucker, Jan 27-Feb. 12; Neal Martin, Feb. 18-March 4; Don Barnes, March 4-March 14.

GAMMA SIGMA DELTA NOMINATIONS

The Minneosta Chapter of Gamma Sigma Delta is now accepting nominations for their Award of Merit to be presented at their Annual Initiation and Recognition Banquet scheduled for April 27, 1989. Nominations should include the person's name, address, phone number, and a brief biographical background with sufficient details to assist the selection committee in evaluating career accomplishments. Nominations are due by February 15. Contact Vern Cardwell with nominations.

HAPPY BIRTHDAY DR. BURNHAM

Friday, January 13th was Dr. Charles Burnham's 85th birthday. Happy Birthday to Dr. Burnham. Flowers were sent by the department.

ALTERNATIVE CROPS AND PRODUCTS LUNCH

The Center for Alternative Crops and Products is sponsoring a diversity lunch. They will showcase many of the new crop and animal products that can be produced in our area. Menu items include: lupine pasta, sheep cheese, fava bean soup, shiitake/tempeh stir fry, triticale bread, amaranth cookies, and many other items. The lunch will be held on January 26 from 12:00-1:00 in 306 Borlaug Hall. To cover costs, a fee of \$3.00 will be collected at the door. The event is open to faculty, staff and graduate students in the Departments of Agronomy, Animal Science, Food Science, and Horticulture who have an interest in alternative crops, animals or products. A limited number of spaces have been allotted per department. A more extensive event may be planned in the future if this is successful. To reserve your space at the lunch, call 625-5747 by January 20.

CAN YOU HELP SUE NIELSEN?

Sue Nielsen is student teaching a grade school science class. She needs 30 paper towel cardboard cores for a class project. Please save them for her. She needs them by the middle of February. Thanks.

NEW NAME

The Commission on Minnesota Resources (LCMR) has officially changed its name to: Minnesota Future Resources Commission (MFRC).

SEMINAR SCHEDULE FOR THIS WEEK

Tuesday
Jan. 17 PLANT PATHOLOGY SEMINAR
Rhizobacteria - Friend or Foe
Cheryl Engelkes in Room 365
Borlaug Hall at 4:00 p.m.

Wednes.
Jan. 18 ENVIRONMENTAL ENGINEERING
Practical applications of
bioremediation in hazardous
waste cleanups.
Mike Martinson, Research
Microbiologist, Biotrol, Inc.,
in 210 Civil and Mineral Eng.
Bldg. at 2:15 p.m.

AGRONOMY-ENTOMOLOGY SEMINAR
Sustainable Agriculture Series:
Challenge of sustainable
agriculture in Minnesota.
Patrick Madden in 335 Borlaug
Hall at 4:00 p.m.

ECOLOGY AND BEHAVIORAL BIOLOGY
Plant apparency and the evolu-
tion of anti-herbivore defenses.
Dr. F. Chew, Dept. of Biology,
Tufts University, in 313
Zoology at 4:00 p.m.

Thurs.
Jan. 19 PLANT PHYSIOLOGY SEMINAR
Transgenic soybean plants and
their progeny obtained through
electric discharge particle
acceleration.
Dr. Paul Christou, Agracetus,
Inc., in 335 Borlaug at 3:00 p.m.

FISHERIES AND WILDLIFE
Mallard duckling growth and
behavior in methoprene treated
wetlands.
Dr. James Cooper in 495 Hodson
Hall at 2:15 p.m.

GENETICS AND CELL BIOLOGY
Basis for biosensing:
Microbial metabolic heating.
Dr. Rex Lovrien, in Rm 70
BioScience at 4:00 p.m.

Friday
Jan. 20 FINAL MASTER'S DEFENSE
A predictive formula for
estimating optimum progeny size
in plant breeding programs.
Frank J. Treadwell, in 415
Alderman at 9:00 a.m.

SPECIAL PH.D. FINAL EXAM
Purification and characteriza-
tion of asparatate kinase in
wild-type corn and lysine plus
threonine resistant mutants.
Stanton Dotson in 306 Borlaug
at 3:00 p.m.

Monday
Jan. 23 SPECIAL PH.D. FINAL EXAM
Selection and characterization
of sethoxydim - and haloxyfop
tolerant corn.
William Parker in 306 Borlaug
Hall at 9:00 a.m.

FINAL MASTER'S DEFENSE
Plant regeneration from tissue
cultures and Agrobacterium -
mediated transformation of
Minnesota adapted soybean
germplasm.
Brent Delzer in 306 Borlaug
Hall at 1:30 p.m.

POSITION ANNOUNCEMENTS

- Plant Physiologist, Gettysburg
College, Dept. of Biology, Gettysburg,
PA.
- Research Specialist (vegetables),
Dept. of Horticulture, Univ. of
Missouri-Columbia, MO.
- Extension Weed Scientist and Research
Asst. Prof. of Agronomy, Univ. of
Arkansas, Southeast Res. and Ext.
Center, Monticello, AR.
- Asst. or Assoc. Prof., Soil Physics,
Dept. of Plant and Soil Science, Univ.
of Tennessee, Knoxville, TN.

PLANT SCIENCE LECTURES AT IOWA STATE

Iowa State University has extended an
invitation to anyone interested in plant
sciences to attend their 1989 series of
Plant Science Lectures. This year's
series features the topic "Molecular
Regulation of Plant Development and
Differentiation." A list of speakers,
dates and topics is posted on the
bulletin board outside 411 Borlaug Hall.
A collection of papers based on this
lecture series will also be published as
a special issue. Plan to attend if you
are in the Ames, Iowa area.

A rancher, delighted with his new \$60,000 Rolls-Royce, said the thing he liked best
was the glass partition between the front and back seats.

"Why?" asked a puzzled friend.

"Keeps the cows from licking my neck when I'm taking 'em to the stock shows."

Globe.

*

An agitated young man ran frantically down the ferry slip, leaped across a strip
of water, and landed with a crash on the deck of the boat. "Whew," he gasped,
as he picked himself up, "I made it!"

"What's your hurry?" asked a deck hand. "This boat's coming in."

Companion of St. Francis and St. Anthony.

*

January 23,
1989

agronomy gleanings

Department of Agronomy and Plant Genetics

THANK YOU

Thanks for the beautiful azalea marking my 85th.
Charles Burnham

NEW BABY

Polly and Dan Froehlich had a baby girl on Wednesday, January 18. They've named their new daughter Amy Marie and she weighed 5 lbs. 13 oz and was 20 inches long.

THANK YOU

Thanks to everyone for their concern and support during Bonnie's illness. After 2 months in the hospital she is really glad to be home, and seems to be on the road to recovery. Thanks again to all.
Don and Bonnie Ralston

SAFETY MEETING

A representative from 3M Occupational Health and Environmental Safety Products Division is going to be here on February 2nd at 9:00 am in 306 Borlaug Hall. He will be showing us a new type of respirator for our use in spraying pesticides in the fields and greenhouses. We will learn how to properly use and fit test a respirator. If you are doing any spraying you should attend this meeting.
Tom Warnke

STUDENT/STAFF DIRECTORIES STILL AVAILABLE

We still have 2 1/2 boxes of 1988-89 Student/Staff Directories left. If you need one for your office or lab please take one from the boxes in the xerox room (412 BH).

INTERNATIONAL-INTERDEPARTMENTAL POTLUCK

All Graduate Students in Agronomy and Soils are invited to an International-Interdepartmental Potluck night, sponsored by the Gopher Crops and Soils Club on Tuesday, February 7 at 5:30 p.m. in 306 Borlaug Hall. If you would like to provide part of the program on your home country see Dr. Terry Cooper in 244 Borlaug or call him at 625-7747.

FACULTY MEETING

There will be a faculty meeting for Agronomy faculty on Monday, January 30 at 1:00 p.m. in 306 Borlaug Hall.

CIVIL SERVICE MEETING

Civil Service personnel will meet on Tuesday, January 31 at 12:00 (noon) in 306 Borlaug Hall for pizza and an update on the letter writing efforts.

SPECIAL SEMINAR IN HORTICULTURE

Disposal of Agricultural Pesticides,
Dr. Mathew Zabik, from Michigan State University, on Wednesday, January 25, at 4:00 p.m. in 415 Alderman. Dr. Zabik will be available to meet with faculty and students between 10 a.m and 4 p.m. on the 25th. Contact Drs. Bartz or Hertz to schedule a visit.

REQUEST FOR EARLY STAGE TECH. PROPOSALS

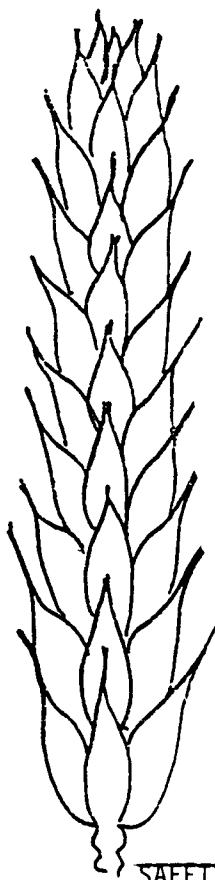
The Office of Research and Technology Transfer has announced that they are accepting proposals for the the Early Stage Technology Development Fund. This is a \$500,000 grant from the Blandin Foundation to develop faculty discoveries which have commercial potential and which can be commercialized in non-metropolitan Minnesota. The first-round deadline for faculty to submit proposals to the ORTTA to be considered for funding is February 15, 1989. This fund is an innovative way for the University and the Blandin Foundation to combine resources to enhance technology transfer and economic development in Minnesota. All faculty will receive program guidelines soon.

NORMAN BORLAUG TO SPEAK AT ST OLAF

Nobel Laureate Norman Borlaug will give an address at the Peace Prize Forum at St. Olaf College in Northfield, Minnesota. Dr. Borlaug will speak at 9:15 a.m. on Saturday, February 18 in Urness Recital Hall. The topic of the Forum is: Striving for Peace: Past, Present, Future. Check the bulletin board outside 411 Borlaug Hall for more details. The cost for students/faculty to attend the forum is \$5 which includes lunch.

SPECIAL SEMINAR

Dr. Peter Carlson from Crop Genetics International, Inc., will give a special seminar on "InCide: A New Delivery System for Biological Crop Protection" on Monday, February 13 at 2:00 p.m. in 335 Borlaug Hall. Crop Genetics International has approval for 1989 Minnesota field testing of corn inoculated with a genetically engineered endophytic bacterium that protects against the corn borer insect. The seminar is intended to provide the background on how this product was developed. Contact person for this seminar is Ron Phillips.



SEMINARS**Monday
Jan 23****FINAL MASTER'S DEFENSE**

Plant regeneration from tissue cultures and *Agrobacterium*-mediated transformation of Minnesota adapted soybean germplasm.

Brent Delzer in 306 Borlaug Hall at 1:30 p.m.

SOIL SCIENCE SEMINAR

Nitrogen fertilizer equivalent for alfalfa in alfalfa-corn rotations.

John Lory in 375 Borlaug Hall at 3:00 p.m.

DEPARTMENT HEAD CANDIDATE**GENETICS AND CELL BIOLOGY**

Dr. Carol S. Newton, Univ. of Medicine and Dentistry of New Jersey Medical School, "Replication of yeast chromosome III", at 4:00 p.m. in 335 Borlaug.

PLANT BREEDING SEMINAR

4432 days until the 21st century-future thinking in international education.

Prof. Joseph A. Mestenhauser, Director of Intl. Education at U of M., in 306 Borlaug Hall at 4:00 p.m.

ENTOMOLOGY SEMINAR

Host plant response and learning in *Macrocentrus Grandii*.

Richard Jones in 490 Hodson Hall at 3:00 p.m.

GLOBAL PERSPECTIVES CONFERENCE

Two day conference sponsored by the COA/Project Sunrise featuring exhibits, seminar and discussion sessions on religions of the world, what it is like to live and work in another country, developing countries, the European Economic Community, how faculty bring global perspective into their courses, etc., in the North Star Ballroom from 1-4 pm or 6-9 pm on Tuesday and 9-5 pm Wednesday.

ST. PAUL FORUM

Two versions of how it all began: The creation accounts in Genesis 1-3.

Dr. Gale Yee, Asst. Prof. of Theology, College of St. Thomas, in 202 St. Paul Student Center at 12:00 noon.

SPECIAL PLANT PHYSIOLOGY SEMINAR

Regulation of enzyme activity in plants by reversible phosphorylation.

Raymond Budde, U of Missouri, 306 Borlaug Hall at noon.

**Tuesday
Jan 24****Wednes.
Jan 25****CITIZEN EDUCATION SEMINAR SERIES**

The role of the scientist in seeking solutions to public policy problems.

Robert J. Jones in Room 205 of the Humphrey Center at 12:00 (noon).

ENVIRONMENTAL ENGINEERING SEMINAR

Minnesota Solid Waste Policy Report - Your responsibility as a citizen and a professional. Janet Green, Minnesota Pollution Control Agency, St. Paul Student Center at 12:00 (noon).

AGRONOMY SEMINAR

Mycorrhizae: Its Applications and Research Needs in Agronomy. Paulo Zucula in 306 Borlaug Hall at 4:00 pm.

ECOLOGY AND BEHAVIORIAL BIOLOGY

Shared preference niche axes: There are unifying principles in ecology.

M. Rosensweig, Univ. of Arizona, in 313 Zoology at 4:00 p.m.

**Thursday
Jan 26****PLANT PHYSIOLOGY SEMINAR**

Effects of cell wall absorption and root cell exudation on nutrient availability.

Deborah Allan, at 3:00 pm in 335 Borlaug Hall.

GENETICS AND CELL BIOLOGY

Microtubules in plant cell division.

Sue Wick, Dept of Botany, in Rm 70 Bioscience Center at 4:00 p.m.

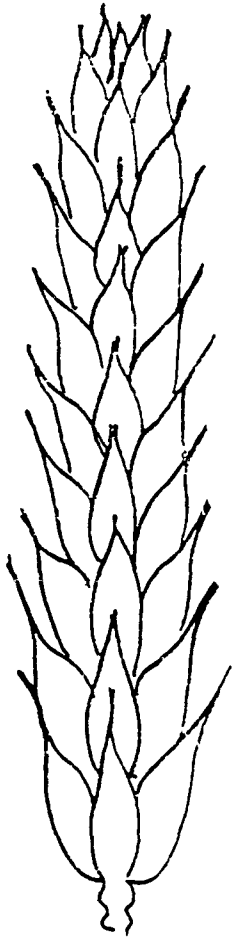
POSITION ANNOUNCEMENTS

- Associate Vice Chancellor for Academic Administration, Univ. of Minn.-Duluth.
- Three USDA-ARS positions for natural product chemists in the Bioactive Constituents Research Unit of the Northern Regional Research Center in Peoria, IL.
- Asst. Prof/Extension Specialist in Water Quality, Univ. of Arkansas, Dept. of Agronomy, Fayetteville, AR.
- Extension Weed Scientist and Research Assistant Prof. of Agronomy, Univ. of Arkansas, Southeast Research and Extension Center, Monticello, AR.
- Director, Rice Research and Extension Center, Univ. of Arkansas, Division of Agriculture, Stuttgart, AR.
- Several Internship Opportunities with the Minnesota Chapter of the Nature Conservancy, Glyndon, MN.
- Two positions with the Minnesota Peregrin Falcon Reintroduction Project at the Univ., The Nature Conservancy, Mpls. MN.
- Associate Director, Dept. of Prof. Development and Conference Services, Continuing Education and Extension, Univ. of Minnesota, Mpls., MN.
- Forage Research Technician, Univ. of Alaska, School of Agriculture, Fairbanks, AK.
- Two County Extension Director Positions, Pueblo County and Weld County in Colorado.

Jan. 27, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics



UPDATE ON DELORES BURNSIDE

We promised to provide an update of Delore's medical progress. The surgical procedure placed a 7 1/2 inch plastic tube in the main duct of the liver and it is allowing drainage. The tube will have to be replaced in three months. Delores is feeling better. Thank you for the many expressions of concern. Orvin Burnside

MINNESOTA PROGRAM GUIDELINES

We have put a copy of the Greater Minnesota Corporation Technology Research Grants 1989 Program Guidelines in the Departmental Library. Avis has a copy also.

FACULTY MEETING

There will be a faculty meeting for Agronomy faculty on Monday, January 30 at 1:00 p.m. in 306 Borlaug Hall.

SAFETY MEETING

A representative from 3M Occupational Health and Environmental Safety Products Division is going to be here on February 2nd at 9:00 a.m. in 306 Borlaug Hall. He will be showing us a new type of respirator for our use in spraying pesticides in the fields and greenhouses. We will learn how to properly use and fit test a respirator. If you are doing any spraying you should attend this meeting.

Tom Warnke

SUMMER AND FALL FIELD DAYS

	1989	
	Summer	Fall
Waseca	June 27	Sept 14
Lamberton	June 28	Sept 13
Morris	July 13	Sept 12
Crookston	July 19	
Grand Rapids	July 20	

FERTILIZER AND HERBICIDE REQUESTS

I will be ordering fertilizer for the Department's use on the St. Paul Campus on Friday, February 3rd. If there are any special requests let me know by the 3rd, otherwise I will order the same quantity and analysis as last year. I will also be contacting Chemical Companies for quantities of herbicides to be used on the St. Paul and Rosemount Stations. In addition to your request I would like a description of the research being done by your project and specifically how the chemical you are requesting will be used. This should be written. Better yet, typed in a form suitable to be sent directly to the company. I would like to have all requests by February 15th. Tom Warnke

TO USERS OF REC SPORTS FACILITIES

I am circulating a petition (prepared by Dr. Dietmer Rose of the College of Natural Resources) which expresses concern for the lack of funding for Rec Sports Facilities at the U of M, particularly at the St. Paul Campus. A copy is posted on my office door, 507 Borlaug. Also, there will be a Sports Facilities Forum on January 31st, 2-4 p.m., in 335 Borlaug Hall. All users of Rec Sports Facilities should consider both the petition and attend the meeting.

SEED CONDITIONING

Anyone interested in learning more about seed conditioning? Harlan Stoehr is taking a bus to the Carter-Day Co., 5073 Ave N.E., Fridley, MN on February 1 at 8:30 a.m. and 1:00 p.m. for a tour with many demonstrations of seed cleaning. If interested contact Harlan at 625-7766.

CIVIL SERVICE MEETING

Civil Service personnel will meet on Tuesday, January 31 at 12:00 (noon) in 306 Borlaug Hall for pizza and an update on the letter writing efforts. Please contact Suzanne Livingston if you are planning to attend. Cost is \$3.00, you may pay at the door.

A race horse is an animal that can take several thousand people for a ride at the same time.

Quote.

INTERNATIONAL-INTERDEPARTMENTAL POTLUCK

All Graduate Students in Agronomy and Soils are invited to an international - Interdepartmental Potluck night, sponsored by the Gopher Crops and Soils Club on Tuesday, February 7 at 5:30 p.m. in 306 Borlaug Hall. If you would like to provide part of the program on your home country see Dr. Terry Cooper in 244 Borlaug or call him at 625-7747.

PLANT BREEDING STUDENTS AND FACULTY

Anyone interested in purchasing Walter Fehr's text books entitled "Principles in Cultivar Development"? I have contacted the publishing company and I've learned through Steve Openshaw that we may purchase these books through the publishers for \$25.00 less than through the book store.

Volume 1	Theory and Technique	\$40.00
Volume 2	Crop Species	\$40.00
Both		\$75.00

If you would like to place an order, contact me before Monday, Feb. 6th in 303 Agronomy at 625-6794. Brent Delzer

POSITION ANNOUNCEMENTS

- Agricultural Agent, Univ. of Wisconsin-Extension, Cooperative Extension Service, Price County.
- State Leader - Agriculture and Natural Resources, State Leader - Community Development, Univ. of Arkansas Cooperative Extension Service, Little Rock, AR.
- Postdoctoral Research Associate, Univ. of Missouri Forage Systems Research Center, Linneus, MO.
- Position of Director, School of Agric., California State Univ., Chico.
- (2) Senior faculty positions in large scale computing, Minnesota Supercomputer Institute, Univ. of Minn., St. Paul, Mn.
- Molecular Biologist/Floriculturist, Dept. of Environmental Horticulture, Univ. of California, Davis, Davis, CA.
- Assistant Professor, Molecular-Cellular Biologist, Institute of Food and Agricultural Sciences, Gainesville, Florida.
- Several Internship Opportunities with the Minnesota Chapter of the Nature Conservancy, Glyndon, MN.
- Scientific Programmer, Asgrow Seed Company, Ames, Iowa.
- Director of Cooperative Extension Service, South Dakota State Univ., Brookings, SD.
- Postdoctoral Fellowship in Agronomy-Malawi, The Rockefeller Foundation, New York, New York.

SEMINARS

Monday
Jan. 30

PLANT BREEDING SEMINAR

Approaches to mapping quantitative trait loci using RFLP markers.

Shawn Kaeppler in 306 Borlaug Hall at 4:00 p.m.

SOIL SCIENCE SEMINAR

Applying soil physics to Horticulture.

Robert Ewing in 375 Borlaug Hall at 3:00 p.m.

FOOD SCIENCE SEMINAR

Bacteriocin Production in Lactic Acid Bacteria.

Sue Spelhaug in FScN Room 15 at 4:00 p.m.

ENTOMOLOGY SEMINAR

METHOTREXATE RESISTANT MOSQUITO CELLS: A Model for analysis of gene amplification.

Ann Fallon in 490 Hodson Hall at 3:00 p.m.

AGRONOMY SEMINAR

Rubisco Activase - A Regulatory Role in Photosynthetic CO₂ Fixation.

Chris Zinselmeier in 306 Borlaug Hall at 4:00 p.m.

FORESTRY SEMINAR

Effects of Clark's Nutcrackers on the population genetic structure of Whitebark Pine.

Dr. G. Furnier in Zoology 313 at 4:00.

ENVIRONMENTAL ENGINEERING SEMINAR

Landfill Problems; Superfund and New Technologies.

Jim Warner in 210 Civil and Engineering Bldg. at 2:15 p.m.

NCFES SEMINAR

Ecology Research at the Natural Resources Research Institute.

Dr. Gerald J. Niemi in 203 2nd Floor Conference Room (203)

North Central Forest Exp. Stn. at 10:00 a.m.

PLANT PHYSIOLOGY SEMINAR

Plant Genetic control of Nodulation in Leguems.

Dr. Peter Gresshoff in 335 Borlaug Hall at 3:00 p.m.

GENETICS & CELL BIOLOGY SEMINAR

The bacterial degradation of halogenated compounds: mechanisms and applications to environmental problems.

Dr. Larry Wackett in Room 70 Bio-Science Center at 4:00 p.m.

GEOGRAPHY SEMINAR

The Mythical City: Do Geographers Have a Realistic Image of the Future City?

Richard Morrill at 3:30. Call office for location (625-6080).

Tuesday
Jan. 31

Wednes.
Feb. 1

Thurs.
Feb. 2

Fri.
Feb. 3

The jury foreman announced: "We find the defendant not guilty."
"What possible reason can this jury have for such an astonishing verdict?" asked the judge in amazement.

"Insanity, Your Honor," was the response.

"What?" exclaimed the judge. "All of you?"

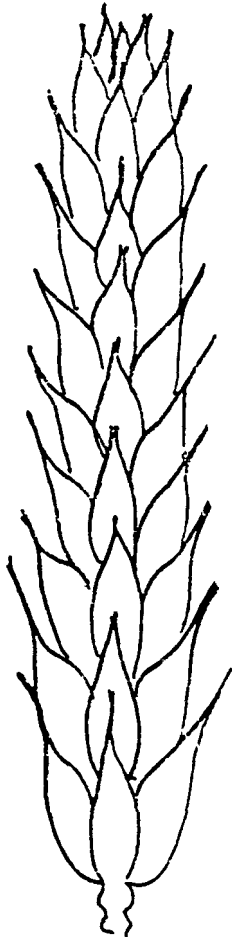
Ken Kruzel.

MW/9/9/86

February 6

agronomy gleanings 1989

Department of Agronomy and Plant Genetics



FREEZER CLEANOUT

I will be going through the contents of the cold room and freezers in Rm 7 of the Crops Research Building the 1st week of March. Each sample should have your Dept. name, your name, and a current date from 1988 or 1989. Any sample without this information will be thrown out. Labels to identify your samples are provided in Rm 7. PLEASE USE THEM.

Tom Warnke 625-3153

WELCOME

Please welcome 2 new people to our department., Holly Tillis, Sr. Secretary, is working in the Agronomy Extension office, 217 Agronomy. Vicky Mackerman is working as a secretary for

the USDA faculty in the main office, 411 Borlaug Hall. Welcome to the department!

FLOWER AND GIFT FUND

Avis is now accepting donations for the Departmental Flower and Gift Fund. This fund is used to provide flowers during births, illness, or death. These flowers have been greatly appreciated by the people who have received them. Donations are excepted from faculty, post docs, civil service, and students.

UNDERGRAD RECOGNITION BANQUET

The date for the Undergraduate Recognition Banquet has been changed from April 18 to April 13. Please mark your calendars for April 13, 1989 from 5:30-9:00 in the Earle Brown Center.

ITEMS FOR DAILY

The Daily has a new reporter for the St. Paul Campus. Contact Betty at 625-6666 if you have items you would like to see reported in the Minnesota Daily.

ILLNESS

Dick Kowles is in the hospital in Rochester. Flowers were sent by the department.

ILLNESS

Dr. John R. Campbell, formerly Dean of the College of Ag. with the University of Illinois, now President of Oklahoma State University, suffered a "massive heart attack" February 2, 1989.

NEW JOURNAL IN LIBRARY

The first issue of The Plant Cell, published by the American Society of Plant Physiologists is in the library. This is a new journal which the ASPP hopes to establish or the premeir journal of plant cellular, molecular and developmental biology. The journal will emphasize papers concerning the regulation of gene expression, molecular and genetic basis of plant development, plant-microbe interactions, and molecular aspects of plant cell organization and functions.

NEW CENTER

A Center for Rural Social Development has been formed in the Institute. The Center's major purpose will be to mobilize broad-based University resources, including all UM campuses, for conducting research and extension programs on rural social issues. Dario Menanteau, Professor of Rural Sociology, has agreed to serve as interim director of the Center, Jan. 1 - June 30, 1989.

FARM FAMILY RECOGNITION BANQUET

Mark your calendars. The Farm Family Recognition Banquet is set for Thursday, March 16 at 6:30 p.m. in the North Star Ballroom. This banquet recognizes men and women throughout Minnesota who have contributed to agriculture and have been actively involved in community activities

CALL FOR REX PROPOSALS

Continuing Education and Extension is now accepting proposals for the Research Exploration (REX) Program Public Volunteer Assistance for Faculty Research. In this program public volunteers assist with field and laboratory work. Submit proposals by February 28. Check the bulletin board outside 411 Borlaug Hall for more information.

SEMINAR

Monday
Feb 6

SOIL SCIENCE SEMINAR

Nitrogen loss to tile lines as affected by tillage.
Patrick L. Kelly, in 375 Borlaug Hall at 3:00 p.m.

FOREST RESOURCES SEMINAR

New perspectives on oak wilt management in Minnesota.
Dixon Shelstad, in 302 Kaufert Lab at 3:00 p.m.

PLANT BREEDING SEMINAR

Proprietary rights--contrasting industry positions.
Dr. Roger Kleese, Vice President of Plant Research and Development, Molecular Genetics, Inc., Monnetonka, in 306 Borlaug Hall at 4:00 p.m.

FOOD SCIENCE SEMINAR

Sensory Evaluation.
Dr. Michael O'Mahony, U of California, Davis, in Rm 15 FScN at 4:00 p.m.

Tues.
Feb.7

ENTOMOLOGY SEMINAR

Role of Nicotine in the Dynamic Interactions Between Manduca Sexta and its Parasitoid Cotesia Congregata. Pedro Barbosa, Dept. of Entomology, Univ. of Maryland, College Park, M.D. Tues., Feb.7, 3:00 p.m. 490 Hodson Hall.

SOIL SCIENCE SEMINAR

Groundwater Pollution by Ag Chemicals. Dr. Samuel King, Univ. of Wisconsin, Madison. Tues., Feb.7, 12:00 noon, 375 Borlaug Hall.

ENVIRONMENTAL SEMINAR

A Third Wave of Environmental Concern: Can Technology and Human Institutions Sustain Economic Growth?
Dr. Vernon W. Ruttan, in Rm 203 North Central Forest Exp. Station at 2:00 p.m.

Wed.
Feb. 8

AGRONOMY SEMINAR

Glutathione: A mediator of plant stress.
Scott Twary, in 306 Borlaug hall at 4:00 p.m.

ECOLOGY AND BEHAVIORAL BIOLOGY

Plant quality or host herbivore quality: is it the same for some insect parasitoids?
Dr. P. Barbosa in 313 Zoology at 4:00 p.m.

Thurs.
Feb. 9

PLANT PHYSIOLOGY SEMINAR

Characterization of auxin receptors.
K.R. Libbenga, Dept. of Plant Molecular Biology, Rijks universiteit, Leiden, in 335 Borlaug Hall at 3:00 p.m.

Fri.
Feb.10

ENVIRONMENTAL ENGINEERING

Closure and corrective actions program for seven surface impoundments - case pre-history.
Beth Wheat, in 210 Civil and Mineral Engineering Bldg. at 3:15 p.m.

POSITION ANNOUNCEMENTS

- Head, Dept. of Ag. Sciences, East Texas State Univ., Commerce, TX.
- Farm Advisor - Plant Pathology, nematology, and irrigated row crops, Monterey/Santa Cruz Counties, Univ. of Calif., Oakland, CA.
- Chairperson, Dept. of Horticulture and Landscape Architecture, Washington State Univ., Pullman, WA.

KERMIT A. OLSON MEMORIAL LECTURE

The Dept. of Horticulture will hold the Kermit A. Olson Memorial Lecture and student awards ceremony on Thursday, February 16 at 7:15 p.m. in 135 of the Earle Brown Center. This year's seminar will be presented by Dr. Robert E. Lyons on "Aspects of Horticultural Photography". Dr. Lyons is an Assoc. Prof. of Hort. at Virginia Polytechnic Institute and State Univ.

HOUSING NEEDED

The Dept. of Food Science and Nutrition has a Visiting Hill Professor arriving in the Middle of March. He would like to find a furnished, 3-bedroom house near campus from March-August. Call Ed Zottola at 624-9274 if you have something available.

Shoe / By Jeff MacNelly



no. 14 A-9815
FEBRUARY 10,

agronomy gleanings 1989

Department of Agronomy and Plant Genetics

CONGRATULATIONS!!!!

Congratulations to Dr. Burnside who was named a Fellow of WSSA, in Dallas.

THANK YOU

Thank you! Thank you! I now have enough paper towel rolls for my science class. Thanks to everyone for saving them for me.

Sue Nielson

MARK YOUR CALENDARS

Soil Science is planning an all day Symposium to mark Bill Larson's retirement on March 16, 1989.

MISSING TAPE DISPENSER

A box sealing tape dispenser has been taken from 408 Borlaug Hall and not been returned. Please check your lab and office area and return it to 408 Borlaug Hall. It is for use by everyone.
Marilyn

SURGERY

Doug Miller had back surgery on Monday. He is at home recovering. Flowers were sent by the Department.

HOSPITALIZED

Dr. Charles Burnham is in St. Joseph's Hospital in St. Paul after suffering a heart attack on Monday night. He is in good condition.

PLANT BREEDING CURRICULUM

There will be a meeting of Plant Breeding Faculty, students and all interested individuals to Discuss the Plant Breeding Curriculum Review on Monday February 20 at 2:30 p.m. in 306 Borlaug Hall.

PEOPLE TRAVELING TO MOROCCO

Neil Martin	2/25 - 3/10
Kent Crookston	2/25 - 3/11
Donald Barnes	3/03 - 3/22

SOIL SCIENCE NAME CHANGE POSSIBLE

The faculty of the Soil Science Department are proposing a Departmental name change to the "Department of Soil, Water, and Climate".

TASTY SEMINAR

"Flavors From the Wild - Another Aspect of Plant Breeding" by Margaret Stahler. Investigates variability and genetics of 6 flavor compounds found in strawberries. Come at 3:45 p.m. for strawberries flavor fiesta (tasting) or 4:00 p.m. for seminar. Raw flavor chemicals (6) and various strawberry products to be samples. Bring your taste buds! 415 Alderman Hall. For best results, please refrain from tea and coffee products for 30-45 minutes beforehand.

LETTER FROM DAVID SOMERS

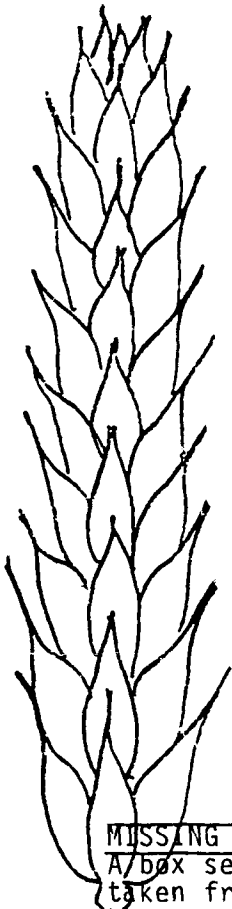
We made it! Been here 4 days and still adjusting to jet leg, culture shock, etc. We live in a "foreign researchers compound", somewhat isolated from "real" Japanese life but loaded with all kinds of foreigners with kids so my family is thrilled to bits. Can't get the kids home for supper. Our apt. is a townhouse in Japanese style, we find it plush as I'm sure most Japanese would as well. Once we figure out how to run the appliances - everything programmable - we will be in good shape! Work is going to be a challenge, but I came here for a challenge, right!
Dave Somers

EXEMPT W-4'S AND MWR FORMS

Exempt W-4's submitted to payroll in 1988 expire on 2/15/89. To avoid having taxes withheld after that date, new exempt W-4's should be received in this office by the following dates: Biweekly Payroll - noon on 2/14/89 and Regular Payroll - noon on 2/20/89. MWR forms (Reciprocity) expire on 2/28/89. To avoid having Minnesota taxes withheld, new forms must be in payroll by the following dates: Biweekly Payroll - noon on 2/28/89 and Regular Payroll - noon on 3/7/89. MWR forms are available from the Minnesota Department of Revenue.

ATTENTION GROWTH CHAMBER USERS

Convion Growth Chamber Data/Logger and Host Computer Company will present an orientation: 8:00 a.m. - 5:00 p.m. Tuesday and Wednesday February 21 & 22. Stop by anytime. Location: Room 121 Borlaug Hall. Come and see what Convion can offer you in support, technology and equipment.



The sign on the university bulletin board read, "Shoes are required to eat in the cafeteria."

Below someone had scribbled, "Socks may eat wherever they wish."

NEW COORDINATORS FOR COA

Ag. Business Mgmt. - Rob King; Ag. Ed. - Roland Peterson; Ag. Industries & Marketing - Dale Dahl; Ag. Sciences - Steve Simmons; Nat. Res. & Env'l Studies - Terry Cooper; Nutrition - Louise Mullen; Sci. & Tech. Commun - Ann Duin; Animal & Pl. Systems - Don Otterby; Applied Econ. - John Waelti; Food Sci. - David Smith.

POSITION ANNOUNCEMENTS

- Extension Soil Conservation Specialist, Dept. of Agronomy, Purdue Univ., West Lafayette, IN.
- Assistant and/or Associate Professor - Forage Geneticist, Dept. of Crop Science, Guelph, Ontario, Canada.
- Assistant Professor, Whole-plant Physiologist, Dept. of Hort. Sciences and Landscape Arch., Univ. of Minn, St. Paul, MN.
- Assistant Professor, Plant Breeder/Geneticist, Dept. of Hort. Sciences and Landscape Arch., Univ. of Minn., St. Paul, MN.
- Corn Research Station - interest in corn breeding and performance evaluation, Crow's Hybrid Corn Co., Milford, IL.
- Senior Lab. Tech, Dept. of Soil Science, Univ. of Minn., St. Paul, MN.
- Preserve Worker, The Nature Conservancy, Crystal Springs Preserve, Clear lake, South Dakota.
- Intern - Bio-Technician, Niobrara Valley Preserve, Johnston, NE
- Intern - Preserve Worker (2 Pos.), Niobrara Valley Preserve, Johnston, NE
- Registry Intern, The Nature Conservancy, North & South Dakota.
- Bio-Tech/Intern, The Nature Conservancy, Cross Ranch Preserve, Hensler, ND.
- Preserve Worker/Intern., The Nature Conservancy, Cross Ranch Preserve, Hensler, ND.

SEMINAR

MONDAY
FEB 13 CROP GENETICS SEMINAR
"InCide; A New Delivery System for Biological Crop Protection".
Dr. Peter Carlson, in 335 Borlaug Hall at 2:00 p.m.
PLANT BREEDING SEMINAR
An overview on stability analyses. Nicholas R. Degenhart in 306 Borlaug Hall at 4:00 p.m.
FOOD SCIENCE SEMINAR
Sensory Evaluation.
Dr. Michael O'Mahony, in Rm 15 FScN 8205 at 4:00 p.m.

SOIL SCIENCE SEMINAR

Forensic pedology: A kidnap-murder case.
Bob Munter in 375 Borlaug at 3:00 p.m.

ECOLOGY & BEHAVIORAL BIOLOGY

Plant-herbivore interactions: The good, the bad and the ugly.
Dr. T. Whitham in Zoology 108 at 4:00 p.m.

FOREST RESOURCES SEMINAR

Yearning For A Tropical Isle? Let Bob Haack Take You To The Caribbean (While he checks a bug outbreak).

Dr. Robert Haack, 2nd floor conference room, North Central Forest Exp. Stn. at 11:30 a.m.

ENTOMOLOGY SEMINAR

Tues.
Feb. 14

Trypanosomatids of Lactiferous Plants.

Isaac Roitman, in 490 Hodson Hall at 3:00 p.m.

Wed.
Feb. 15

AGRONOMY SEMINAR

Sustainable Agriculture Series
Rhonda Janke, in 306 Borlaug Hall at 4:00 p.m.

ECOLOGY & BEHAVIORAL BIOLOGY

Hybrid zones as sinks for herbivores.

Dr. T. Whitham, in Zoology 313 at 4:00 p.m.

PH.D. FINAL SEMINAR

Selection for response to nitrogen fertilizer in a tropical maize population.

Peter Sallah, in 306 Borlaug Hall at 9:30 a.m.

PHYSICS SEMINAR

Kelvin vs. Maxwell: Telegraph Engineering vs.

Electromagnetic Field Theory.
M. Norton Wise in 131 Physics at 4:00 p.m.

Thurs.
Feb. 16

PLANT PHYSIOLOGY SEMINAR

Making a Better Bean: Heat and Drought Tolerance.

Dr. Albert Markhart, in 335 Borlaug Hall at 3:00 p.m.

GENETICS & CELL BIOLOGY

"Acetylcholine receptor clustering".

Dr. Robert Bloch, in Rm 70 Bioscience Center at 4:00 p.m.

BIOCHEMISTRY SEMINAR

Real Time Imaging of Membrane Potential and Ion Fluxes by Fluorescence Microscopy.

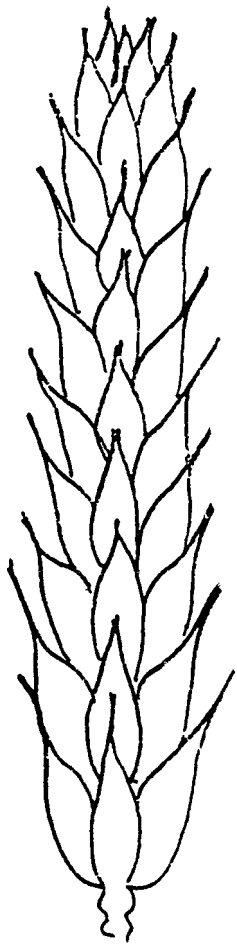
Dr. Kazuhiko Kinoshita, in 239 Gortner Laboratory at 3:00 p.m.

Fri.
Feb. 16

HORTICULTURE SEMINAR

Aspects of Horticultural Photography.

Kermit Olson, in 135 Earle Brown Center at 7:15 p.m.



M.W.
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1989

agronomy gleanings

Department of Agronomy and Plant Genetics

THANK YOU

Doug Miller says thank you to the Department for the beautiful cyclaman plant. He will return to work next week.

HOME FROM HOSPITAL

Dr. Burnham came home from the hospital on Thursday and is doing well. He was happy to get out of the noisy hospital.

HOSPITALIZED

Delores Burnside is in the hospital this week for further surgery. She is currently in intensive care.

RAY DERRY HONORED

Ray Derry, Field Rep. for Minnesota Crop Improvement Association, located at

Roseau, MN, will be inducted into the Red River Valley Winter Shows Hall of Fame, on Saturday, February 19. This is a significant honor for persons living and working in that area.

CONGRATULATIONS TO JOHN GRONWALD

Congratulations to John Gronwald who was promoted to GM-13 by USDA-ARS in recognition of his substantial production of high-quality research in mode of action of herbicides.

CONGRATULATIONS TO DAVE SANDSTROM

Dave Sandstrom, from the Rosemount Experiment Station, was recognized for Outstanding Service to the Station at the Annual Station Dinner on January 31. He was nominated for the award by several of his peers at the station and in the Dept. of Agronomy. Dave was cited for being friendly, cooperative, and easy to work with and for his understanding of layout and innovative ideas on how to manage research plots and machinery efficiently. Congratulations, Dave!

THANK YOU NOTE

Thank you for your great support following my recent illness. The concern, encouragement, and lovely plants all helped immensely. Hopefully, I will be able to visit with all of you again soon.
Dick Kowles

AD HOC COMMITTEE TO PLAN FOR SPACE NEEDS

An ad hoc committee was formed to plan for additional instructional equipment and laboratory space needs in the department. John Gronwald, Ron Phillips and Steve Simmons volunteered to be on this committee. They will inventory all the space we have available in our various buildings and make suggestions for use and renovations to make the space more efficient. As they get going they will ask faculty and staff for suggestions and input.

COMING UP - GRAD STUDENT POTLUCK DINNER

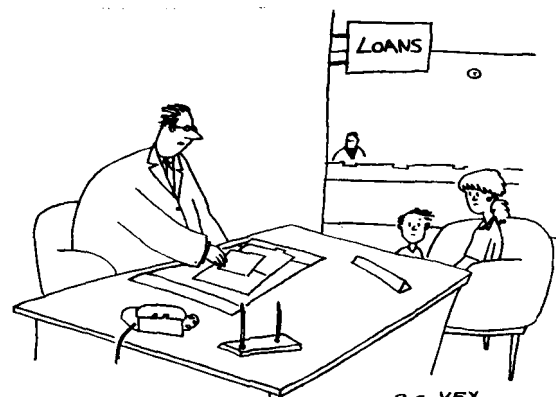
On Saturday, March 11 there will be a potluck dinner for grad students and their families. The dinner will be at 5:30 p.m. in 306 Borlaug. Watch your mail for more details. Peggy Egli

CAREERS NIGHT

The Gopher Crops and Soils Club will host a Careers Night on Tuesday, February 21 in 306 Borlaug Hall starting at 5:00 p.m. Representatives from Cenex, Servitech, and the Soil Conservation Service will be here to discuss the types of job opportunities available in each of their areas.

RESEARCH DAY

The U of M will hold Research Day on Wednesday, Feb. 22, 10 a.m.-2 p.m. in the State Capitol Great Hall, Ground Floor, St. Paul. This will be a showcase of the latest U of M research covering a broad range of academic disciplines.



P.C. VEY

"I'm sure your father would like a brand new car for Father's Day, but do you think he'd appreciate your putting up your little brother as collateral?"

SEMINARS

**Monday
Feb. 20** PLANT BREEDING SEMINAR

Genetics and biotechnology in forest tree improvement. Dr. Don E. Riemenschneider, Res. Plant Genetist, USDA Forest Service, Reinlander, WI, in 306 Borlaug Hall at 4 p.m.

FOREST RESOURCES SEMINAR

Consistent estimation of site index curves fitted to temporary plot data. David Walters, in 302 Kaufert Lab at 3 p.m.

SOIL SCIENCE SEMINAR

The 1988 drought and heat wave - climatic anomaly or greenhouse effect?

Donald G. Baker in 375 Borlaug Hall at 3 p.m.

FOOD SCIENCE SEMINAR

Influence of growth conditions of *S. aureus* on detection of enterotoxins.

Lynn McLandsborough, in Rm 15 FScN at 4 p.m.

**Tuesday
Feb. 21** NORTH CENTRAL FOREST EXP. STATION

The importance of the black church in the life and history of Black Americans. Reverend Kathleen Gatson, Asst. Pastor, Pilgrim Baptist Church, in 2nd floor conference room of NCFES at 2 p.m.

**Wednes.
Feb. 22** AGRONOMY SEMINAR

Mechanisms of genetically engineered herbicide resistance. Roger Baerg in 306 Borlaug Hall at 4 p.m.

ECOLOGY AND BEHAVIORAL BIOLOGY

Investigations of trees in three dimensions: ecological interactions in tropical forest canopies.

Dr. N. Nadkarni, Dept. of Biology, U of Calif-Davis, in 313 Zoology at 4 p.m.

**Thurs.
Feb. 23** PLANT PHYSIOLOGY SEMINAR

Membrane lipids, hydrolytic enzymes and antioxidants of stored potatoes.

Jim Spychalla, in 335 Borlaug Hall at 3 p.m.

GENETICS AND CELL BIOLOGY

Molecular biology of the Sindbis virus.

Dr. Henry Huang, Microbiology, Wash. Univ., in Rm 70 BioScience.

**Friday
Feb. 24** ENVIRONMENTAL ENGINEERING SEMINAR

Technical and policy issues of the Boston harbor cleanup. Eric Adams, Principal Res. Engineer, MIT, in 210 Civil and Mineral Eng. Bldg.

SEMINARS

- Asst. to the Dean, Graduate School, U of M, Mpls. campus.
- Groundskeeper for 18 hole golf course from April 1 to Nov. 1, 1989, Sawyer Air Force Base, Michigan.
- Director of Cornell Plantations (botanical garden, arboretum and natural areas of Cornell Univ.), Cornell University, Ithaca, NY.
- Research Associate II, Plant, Soil, and Insect Science Dept., Univ. of Wyoming, Laramie, WY.
- Research Assistant, Asgrow Seed Company, Ames, IA.
- Post-doc Research Associate in Plant Evolutionary Genetics and Genetic Resources, Univ. of Calif., Davis, CA.
- Extension Specialist in Nursery Management, Rutgers Coop. Exten., New Brunswick, NJ.

Nationally, Minnesota ranks: (1987 statistics)

1st	sugar beets	6th	number of farms, total cash receipts, cash crop receipts, red meat products
2nd	spring wheat, oats, sweet corn and green peas for processing, turkeys, cheese, milk	7th	cash receipts for livestock and related products, all wheat, dry edible beans, ice cream, exports
3rd	soybeans, sunflowers, flaxseed, hogs, butter	8th	none
4th	corn, barley, hay, rye, milk cows, milk products	9th	all potatoes
5th	honey	10th	cattle and calves

Ag Brags!

One U. S. farmer provides food and fiber for 93 people, 75 in the U.S. and 18 in foreign countries.

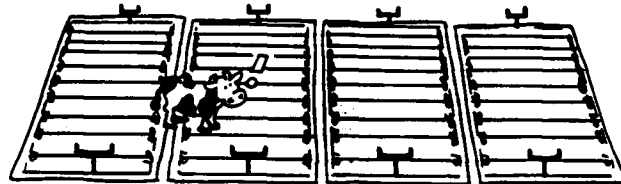
For every farmer there are 16 support persons working to carry and supply his/her goods.

The U.S. is the world's largest exporter of farm products. (Japan receives more of our agricultural exports than any other country.)

Cotton is the world's most important non-food crop. Guess who is the world's biggest cotton producer? (China, but the U.S. is second.)

More than half of the 2.3 billion land acres in the U.S. is used to produce food.

How much land do you think it takes to produce the food and clothing you need? In America, an average 4½ acres is farmed for every man, woman and child. That's about the size of four football fields.



Put all these acres together and what do you get?

The things each one of us uses or eats every year:

616 lbs. paper	85.8 lbs potatoes (including sweet)
306.2 lbs. dairy products	67.5 lbs. turkey and chicken
193.2 lbs. vegetables (except potatoes)	56.5 lbs. fats and oils
153.6 lbs. red meat	33 lbs. eggs
149.2 lbs. flour and cereal products	24.9 lbs. melon
146.6 lbs. sugar and sweeteners	15.5 lbs. fish
138.8 lbs. fruit and juice	14.2 lbs. cotton
	11.9 lbs. coffee, tea, cocoa
	.5 lbs. wool.

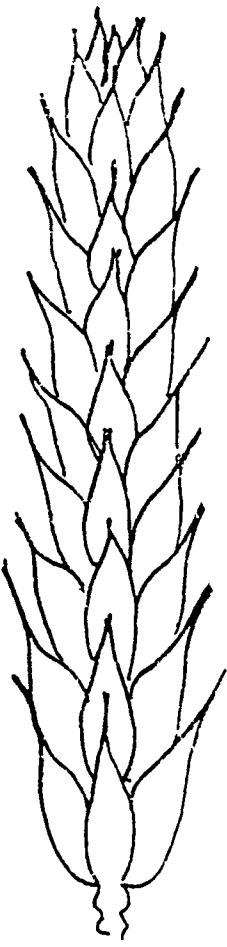
That's a whopping 2013.4 lbs. for each of us each year...and it's all thanks to agriculture!

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February 27

agronomy gleanings 1989

Department of Agronomy and Plant Genetics



RETIREMENT

Jim Bartz will be retiring from the University of Minnesota on July 15, 1989. Jim has been an effective Head of the Department of Horticulture Science and Landscape Architecture for six years.

FACULTY & GRAD STUDENTS

I loaned my Snedecor and Cochran statistics book to one of you and my Proceedings of the Second International Quantitative Genetics Symposium to someone else. I would appreciate having them back immediately. I need them for preparing courses.

R.E. Stucker

FAREWELL ICE CREAM SOCIAL

There will be a farewell ice cream social for Charlotte Eberlein on Monday Feb. 27 at 3:00 p.m. in room 306 Borlaug Hall.

ATTENTION COMPUTER ROOM USERS

Files are not to be saved on the hard drive (IBM) or program disks (Macintosh). Henceforth, unauthorized files will be deleted on a weekly basis. If you have any important files, remove them by March 1, or they will be sent to the file heaven in the sky.

Computer Room Committee

GOPHER CROPS & SOILS CLUB WORKSHOP

The workshop will be Tuesday, February 28 in the Undergraduate Room (101 Agronomy Building) at 5:00 p.m. Dinner will be provided.

NEWLIN HEADS CAPITAL CAMPAIGN

Owen J. Newlin, senior vice president and director of Pioneer Hi-Bred International Inc., Des Moines, has accepted the position of general campaign chairperson for Iowa State University's most ambitious fund-raising effort to date. Newlin earned his PhD in plant breeding and genetics from the University of Minnesota in 1955.

NEW DEPARTMENT HEAD FOR SOIL SCIENCE

The new Head of the Department of Soil Science will be H.H. Cheng. He will arrive about the end of May 1989.

DEB CRAN RESIGNS

Ms. Deb Cran has resigned effective May 1, 1989 to go with the Hunphrey Institute.

OFFICE OF RESEARCH & TECH TRANSFER

They have extended the deadline for faculty to submit proposals for the Early State Technology Fund, which will support development of faculty discoveries and new technologies with commercial potential for nonmetropolitan Minnesota. Deadline is now March 10. Call Tony Potami at (612) 624-1648 or John Thuente at 624-2816.

TWIN CITIES TASK FORCE

A task force will review support and service units at the U of M: Intercollegiate Athletics Personnel, Physical Planning/Physical Plant, Police, Purchasing, Student Support Services, Support Services and Operations (Bookstores, Food Services, Housing, Parking, etc.), and U Relations. Faculty, Staff, and Students are invited to comment on the impact of the units on academic programs. Both positive comments and suggestions for improvement are encouraged. Send comments to Carol Balthazor, Office of Academic Affairs 217 Morrill Hall.

FOR SALE

8 lamps for sale \$75.00 each. 100 st. Metal Halide. Contact Len Hertz or Roger Meisner, Hort. Dept. 4-3080.

PHONEBOOK COLLECTION FOR RECYCLING

Please neatly stack all old phonebooks for recycling near your building's central drop-off site for the new phonebooks. All phonebooks for recycling need to be at the drop-off site by 8:00 a.m. on the 14th of March.

NEW POSITION

On February 15, 1989 the responsibilities were drafted for the position of: Vice President for Agriculture, Forestry and Home Economics and Director of the Agricultural Experiment Station.

COUNTY EXTENSION AGENT POSITIONS

Gerald Miller is presently recruiting for seven County Extension Agents. Let him know of any suggestions you may have for these positions.

HOST FAMILIES NEEDED

Host families needed March 20-23 for international agricultural student trainees that will be attending a three day orientation on the St. Paul Campus. If you think you would be interested in hosting a student or two from England, Australia, Denmark, Sweden, Norway, Finland, New Zealand, France or Germany in your home for three nights or if you would like additional information, please contact Sue Rains-Johnson at the MAST International Office at 625-1745.

POSITION ANNOUNCEMENTS

- Farm Advisor - Dairy/Forage, Univ. of California Division of Ag. and Natural Resources.
- Dairy and Livestock Agent. Univ. of Wisc. Extension, Madison, WI.
- Extension Weed Specialist and Asst. or Assoc. Professor. Washington State Univ. Pullman, WA.
- Director of Administrative Services/Fiscal Officer. College of Ag. Univ. of Idaho. Moscow, Idaho.
- Director of Univ. Relations, U of M. St. Paul, MN.
- Extension Associate in Weed Science. Ohio State University, Columbus, Ohio.
- Soil Lab Manager. MN. Valley Testing Laboratories, New Ulm, MN.
- Plant Scientist. MN. Valley Testing Laboratories, New Ulm, MN.
- Assistant Prof. of Plant & Soil Science. Tennessee Technological University, Cookeville, Tennessee.

SEMINARS

- Monday**
Feb. 27 **SOIL SCIENCE SEMINAR**
Soils of Stonehaven: An investigation of Scottish Soil Survey methods. Laurie Brown in 375 Borlaug Hall at 3:00 p.m.
- PLANT BREEDING SEMINAR**
Controlling plant diseases with genetically heterogeneous populations. Harold Mickelson in 306 Borlaug at 4:00 p.m.
- FOOD SCIENCE SEMINAR**
Heat Processing of Viscous Materials in Axially-Rotating Cans: an Engineering Approach. Sam Saguy in FScN 8205, Room 15 FScN at 4:00 p.m.
- Tuesday**
Feb. 28 **PLANT PATHOLOGY SEMINAR**
Siderophore Mediated Uptake of Iron and its Role in Suppressive Soils. Javier Plasencia in 365 Borlaug Hall at 4:00 p.m.

SEMINARS (continued)

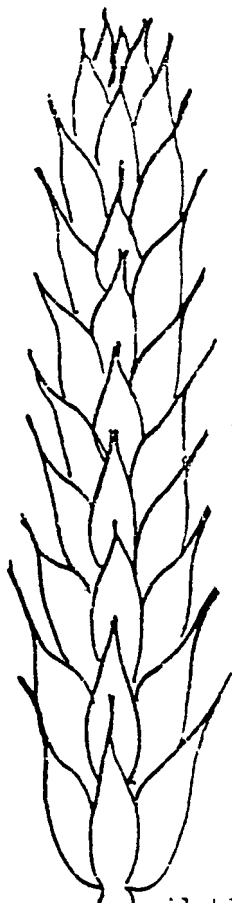
- Wednes.**
Mar. 1 **AGRONOMY SEMINAR**
An Assessment of Photosynthesis: Research Designed to Increase Crop Productivity. Kelly Whiting in 306 Borlaug Hall at 4:00 p.m.
- ENVIRONMENTAL ENGINEER SEMINAR**
Progress on Waste Minimization at State and Federal Levels. Cindy McComas in 210 Civil and Mineral Engineering Building at 2:15.
- CITIZEN SEMINAR**
Baby Boomers And The Future Politics Of Social Security. Paul Light in the Humpfrey Center, West Bank Commons, Room 205 at 12:00 p.m.
- ECOLOGY & BEHAVIORAL BIOLOGY**
Natural disturbances and Structure in the primeval Great Lakes forest. Lee Frelich in 313 Zoology at 4:00 p.m.
- FORESTRY SEMINAR**
The Role of Forests in the Gaia Hypothesis. Dr. Norman Myers at the Bell Museum of Natural History Auditorium at 7:30 p.m.
- Thurs.**
Mar. 2 **AGRONOMY SEMINAR**
Characterization of chlorophyll-deficient mutants of alfalfa. Dr. Don Lee in 335 Borlaug Hall at 3:00 p.m.
- GENTICS & CELL BIOLOGY**
Genes that control pattern formation in Drosophila. Dr. Matthew Scott in Rm 70 Bio-Science Center at 4:00 p.m.
- FOREST RESOURCES SEMINAR**
Forestry for Sustainable Development: The Role of Citizens and Non-Governmental Organizations. Dr. Norman Myers in the 2nd Floor Conference Room (#203) North Cen. Forest Exp. Sta. at 10:00 p.m.
- PLANT PATHOLOGY SEMINAR**
Techniques used in Plant Physiology Research. Beth Nixon in 408 Agronomy at 12:00 p.m.
- Friday**
Mar. 3 **GEOGRAPHY SEMINAR**
Metropolis Unraveled: Chicago in the Late Twentieth Century. John C. Hudson at 3:30 p.m. check dept. office for location.
- Sunday**
Mar. 5 **SUSTAINABLE AG SEMINAR**
Dick and Sharon Thompson on Sustainable Agriculture. For directions call 433-5198. 7:00 p.m.

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March 3,

agronomy gleanings

1989

Department of Agronomy and Plant Genetics



COA FACULTY ASSEMBLY

There will be a Faculty Assembly for faculty in the College of Agriculture on Wednesday, March 15 from 10:00-noon in 335 Borlaug Hall. A final agenda will be distributed to faculty on March 8.

3 CANDIDATES FOR BIOCHEM SPOT

Three people are scheduled to visit our department to interview for the biochemist position. Each candidate will give a seminar in 306 Borlaug Hall at 9:00 a.m. The seminars will be videotaped in case you are unable to attend. Tapes will be available from Teresa in 209 Borlaug Hall. The application files are

available
Hall from

March 6 -

for your review in 411 Borlaug
Avis.

Dr. Jim Connelly, "Metabolism of the herbicide Bentazon in soybean and corn"

March 9 -

Dr. Raymond Budde, "Protein phosphorylation in plants and regulation of the mitochondrial pyruvate dehydrogenase complex"

March 16-

Dr. Chrissl Roeske, "Regulation of pyruvate, orthophosphate dikanse in Zea mays"

NEW USDA FACULTY MEMBER

Douglas Buhler will start his new position as a USDA-ARS scientist in our department on Monday, March 13. His office number will be 130 Borlaug Hall and his phone number will be 625-6719. You may want to add this information to your phone list. Dr. Buhler's research project will feature the development of weed management practices that reduce the movement of herbicides to ground water.

THESIS DONATED TO LIBRARY

Frank J. Treadwell, plant breeding graduate student in Horticulture, has donated a copy of his M.S. Thesis, "A Predictive Formula for Estimating Optimum Progeny Size in Potato Breeding Programs" to our departmental library. Thank you.

HOLIDAY SCHEDULE FOR 1989-90

Mark your calendars, the following University holiday schedule has been approved for Civil Service Staff on the Twin Cities campus for 1989-90.

Memorial Day (1989) - May 29, 1989
Independence Day - July 4
Labor Day - September 1-4
Thanksgiving - November 23-26
Christmas - December 23-26
New Year's - Dec 30-Jan 1
Martin Luther King - January 15, 1990
Memorial Day (1990) - May 28, 1990
Plus a personal holiday for 1989-90.

CONGRATULATIONS TO HAL MICKELSON

Harold Mickelson has announced his engagement to Heidi Lillibridge. The wedding is scheduled for June 10, 1989 at Manning, ND. Congratulations!

CONGRATULATIONS TO KAY WELSCH

Kay Welsch will be ordained at the St. Anthony Park United Church of Christ on Sunday, March 12, 1989, at 4:00 p.m. Congratulations!

INT'L STUDIES GRANT FOR GRAD FELLOWSHIPS

The Institute of Int'l Studies in the CLA has received a \$1 million grant from the MacArthur Foundation to develop a program focusing on developing countries. The grant will include fellowships for graduate students in the COA. For more information about the fellowship program, contact Brian Job at 624-9007.

CIVIL SERVICE EXCELLENCE AWARD FOR 1989

The Civil Service Liaison Committee is now accepting nominations for the Civil Service Excellence Award for 1989. Submit your nomination to Lynne in 411 Borlaug Hall by March 20.



"Do you realize that every one of us had the same doctor?"

SEMINAR SCHEDULE

Monday Mar. 6 PLANT BREEDING SEMINAR
 Variation in inbred lines due to mutation and genetic drift. David Gebhardt in 306 Borlaug Hall at 4 p.m.

SOIL SCIENCE SEMINAR
 Landfills, who needs them? Terry Bovee in 375 Borlaug Hall at 3 p.m.

FOOD SCIENCE SEMINAR
 Production of staphylococcal enterotoxin A and D in processed carrots, spinach, and green beans. Roger Fisher in 15 FScN at 4 p.m.

Wednes. Mar. 8 SUSTAINABLE AG. SERIES SEMINAR
 Human sustainability in agriculture. Dr. William Friedland, Dean, College of Soil Sciences, Univ. of Calif., Santa Cruz, in 335 Borlaug Hall at 4 p.m.

ECOLOGY AND BEHAVIORIAL BIOLOGY
 Little evolution and big evolution: Rethinking the history of population genetics. Dr. M. Adams, Univ. of Penn., in 313 Zoology at 4 p.m.

Thurs. Mar. 9 PLANT PHYSIOLOGY SEMINAR
 Ionic and osmotic effect on permeability and lipid partiality in salt sensitive and tolerant lines and cultivars of wheat and barley. Mr. Mohamed Monsour in 335 Borlaug Hall at 3 p.m.

GENETICS AND CELL BIOLOGY
 Gene regulation through mRNA instability. Dr. Donald Cleveland, Johns Hopkins Univ., in Rm 70 BioScience at 4 p.m.

POSITION ANNOUNCEMENTS

- Ag. Res. Tech. II., B.S. or M.S. in Horticulture or related Plant Sci. field. North Dakota State Univ., Dept. of Horticulture and Forestry, Fargo, ND.

- Katherine Esau Chair in Plant Biology, Full Prof., Univ. of Calif.-Davis, CA.

- Director - Southern District, Cooperative Extension, Univ. of Wisconsin, Madison, WI.

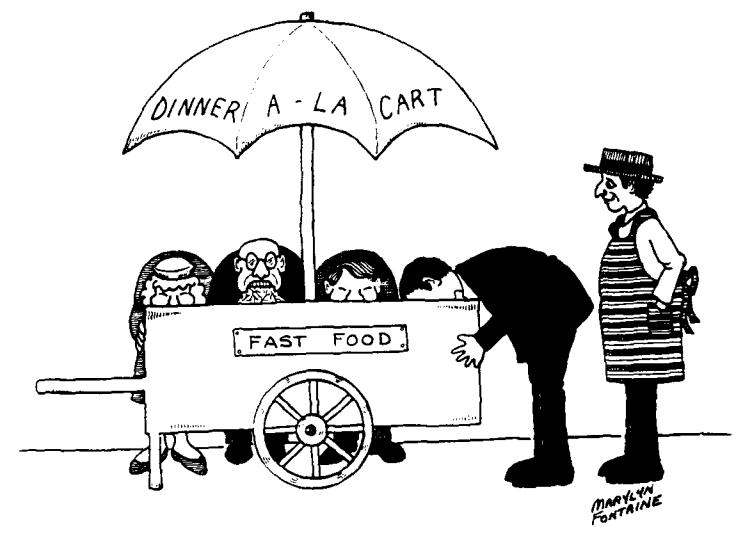
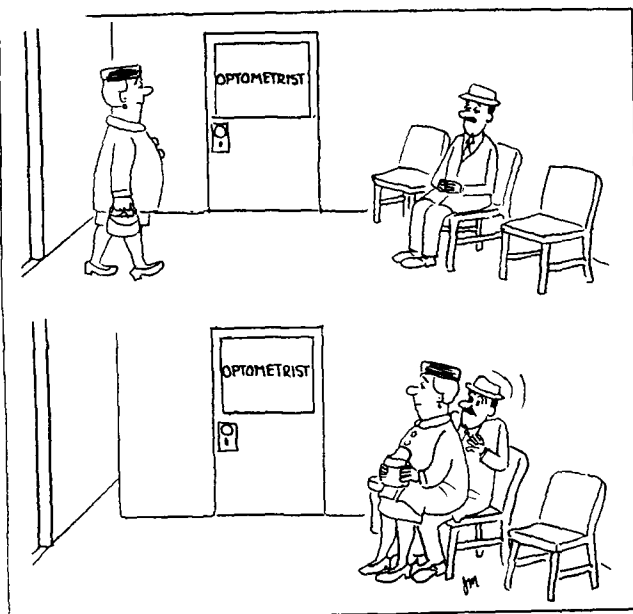
- Asst. or Assoc. Prof. - Cytogenetics, Clemson Univ., Dept. of Agronomy and Soils, Clemson, SC.

- Research Technician to work with corn breeder, B.S. Garst Seed Company, Woodburn, IN.

- Director of Summer Session, Continuing Education and Extension, Univ. of Minnesota, Minneapolis, MN.



"You're eating too much fish."

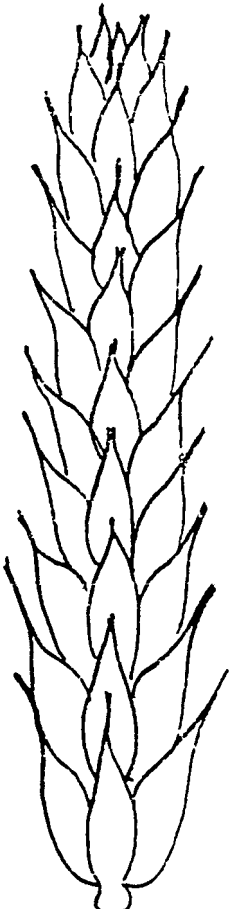


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March 13, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics



CONGRATULATIONS

Ed and Betty Schiefelbein are the proud parents of a new baby boy. Gregory James was born on Saturday, March 4, 1989, and weighed 9 lbs. 13 oz. Congratulations.

THEFT

Several thefts of billfolds have been reported in the department over the last few weeks especially in Crops Research and the Weed Lab. Please do not leave your offices unlocked or your personal items unattended.

WELCOME

Please welcome Andrew Tommey to the department. Andrew is working as a Post-doc with

Dave Somers and Burle Gengenbach through the Plant Molecular Genetics Institute. He completed his Ph.D. at the University of Newcastle-Upon-Tyne in England in the area of Crop Physiology. Andrew's wife's name is Ruth. They just got married before leaving England. His office is 520 Borlaug Hall.

PLOT SPACE ON ST. PAUL CAMPUS

Anyone requiring field space on the St. Paul Campus this season who is not assigned permanent space should get their written request to me by Monday, March 27th. Included in your request should be details concerning: number of square feet needed, herbicide and fertilizer requirements, length of time needed, past crop requirements, etc.

Thanks - Tom Warnke

JOHN VANDER CROMMERT HAS A NEW JOB

John Vander Crommert, head of Foundation Seed with MCIA, has accepted a job with Pioneer Hybrids, International. His last day of work will be March 31, 1989. John has been a good cooperater, he will be missed from Foundation Seed, and we wish him well in his new position.

MISSING LIGHT BOX

The light box is missing from Dave Somers' lab (507 Borlaug) - Any ideas where it might be? Please call 5-8107 or return it if you know where it is.

WRITING WORKSHOP

The Graduate Student Information Program is offering a Writing Workshop for Graduate Students on Saturday, April 15 from 8:30 a.m. to 3:30 p.m. in Coffman Union. Experienced writing staff will lead sessions on: understanding the academic audience; finding, organizing, supporting your idea; documenting your work; writing clear prose; writing the essay exam; literature reviews. Cost of the workshop is \$5. See the bulletin board outside 411 Borlaug for details.

FACULTY MEETING

There will be a departmental faculty meeting on Monday, March 20 at 8:00 a.m. in 306 Borlaug Hall.

SEARCH COMMITTEE FOR EBERLEIN POSITION

A search committee has been appointed to find a replacement for the Eberlein position: Don Wyse, chair, Beverly Durgan, Gary Heichel, Craig Sheaffer, Brent Sorenson, and Dave Tillman. There will be further discussion regarding the position announcement during the faculty meeting on Monday.

GREETINGS FROM DR. SMITH

I am pretty well into a routine here. The students are in the interships and I've visited each twice. We meet as a group Friday evenings for a small fiesta and review the week. My Spanish is quite good now. We've traveled quite a bit on weekends by bus and visited several old Spanish colonial towns. The weather continues in the 70's, I get sunburnt easily because of the UV rays. Hope all is well back in Minnesota. See you soon. Larry Smith

MARK YOUR CALENDARS

Faculty, staff, graduate and undergraduate students are all invited to the Seventeenth Annual Parent-Student Dinner on Thursday, April 13, 1989 at the Earle Brown Continuing Education Center, Shingle Creek Room. A cheese and cider reception will be held at 6:00 p.m. with dinner following at 6:45 p.m. Tickets can be purchased from Pat Kessler in 302 Agronomy by Monday, April 10th. Come and share an evening with our undergraduate students and their parents as we review the achievements and accomplishments of our undergraduate students.

NORTH CENTRAL ASA MEETING

The North Central Branch of ASA will hold their Annual Meeting at the Missouri University on June 28, 1989. They are accepting abstract submissions for oral presentations or posters until June 1, 1989. There will be a contest for undergraduate papers. Check the bulletin board outside 411 Borlaug Hall for more details.

ATTENTION UNDERGRADUATE STUDENTS

Gopher Crops and Soils Club members: A group of students will be attending the Regional meetings of AAS-ASA at the University of Illinois. The group will leave Friday, March 31 and return Sunday, April 2. Sign-up on the sheet in 302 Agronomy if you are interested.

DEATH

Our sincere sympathy to Debo Olaoye whose mother died last weekend. Debo is returning to Nigeria today for the funeral. Debo's mother has been caring for his four children in Nigeria.

PROPOSALS FOR MSI COMPUTER GRANTS

The Minnesota Supercomputer Institute is accepting proposals for MSI Computer Resource Grants and for Supercomputer Institute Research Grants for the July 1 to December 31, 1989 grant period. The deadline for application is April 15, 1989. Check the bulletin board for more details.

LAND STEWARDSHIP PROJECT MOVED

The Land Stewardship Project has moved to a refurbished farmhouse near Marine, Minnesota nine miles north of Stillwater. Their new address and telephone number is:

Land Stewardship Project
14758 Ostlund Trail North
Marine, MN 55047
(612) 433-2770

CIVIL SERVICE EXCELLENCE AWARD

Get your nominations in now for the Civil Service Excellence Award. Anyone may nominate a member of the civil service staff for this departmental award. Submit nominations to Lynne in 411 Borlaug Hall.

SPRING GET-TOGETHER FOR AGRONOMY WOMEN

The Agronomy Faculty Women's Committee has planned a Spring Get-Together for Agronomy Women (this includes female faculty, staff and graduate students and wives of faculty, staff and graduate students). They have planned a program for Thursday, April 13 at 7:30 p.m. at 1666 Coffman in the Social Room on the 3rd floor. The program will be a musical group from the Music Section of the University Faculty Women's Club. They will do a presentation of Irving Berlin's Music.

THIRD CANDIDATE FOR BIOCHEM POSITION

The third candidate for the Biochemistry position, Dr. Chrissl Roeske will be interviewing on Thursday, March 16 and Friday, March 17. She will present a seminar at 9:00 a.m. on Thursday, March 16 in 306 Borlaug on "Regulation of pyruvate, orthophosphate dikinase in Zea mays". A complete schedule for her visit is posted on the door of 411 Borlaug Hall.

SEMINARS

Monday

March 13

PLANT BREEDING SEMINAR

Choosing yield testing locations.

Baffour Asafo-Adjei, in 306 Borlaug Hall at 4 p.m.

SOIL SCIENCE SEMINAR

The behavior of soil-applied cyclotri- and cyclotetraphosphate in Texas soils.

Calvin Trostle in 375 Borlaug Hall at 3 p.m.

FOOD SCIENCE SEMINAR

Characteristic flow properties, density, and renneting properties of milk rennetates made by ultrafiltration.

Brenda Stepp in 15 FScN at 4 p.m.

Friday

March 17

SPECIAL PLANT BREEDING SEMINAR

RFLP mapping in wheat and applications in genetics and breeding.

Dr. Michael Gale, Institute of Plant Science Research, Cambridge, England in 306 Borlaug Hall at 9:30 a.m.

POSITION ANNOUNCEMENTS

- Post-doc, Dept. of Plant Path. and Crop Physiology, Louisiana State Univ., Baton Rouge, LA.
- Assistant to the Dean of the College of Agriculture, Univ. of Minnesota, St. Paul, MN.
- Post-doc in molecular biology, Dept. of Horticulture, Oregon State Univ., Corvallis, OR.
- Regional Irrigation Specialist and Research Scientist, Southeast Research/Extension Area, Rocky Ford, CO
- Asst. Prof. and Asst. Environmental Physicist/Water Scientist in Ag. Experiment Station, Univ. of California, Davis.
- Research Technician, Soils/Agronomy, Michael Fields Agricultural Institute, East Troy, WI.
- Extension Agronomist/Weed Management Specialist/Asst. Prof., Iowa State Univ., Ames, IA.
- Research Assistant, Dekalb-Pfizer Genetics, Spencer, IA.

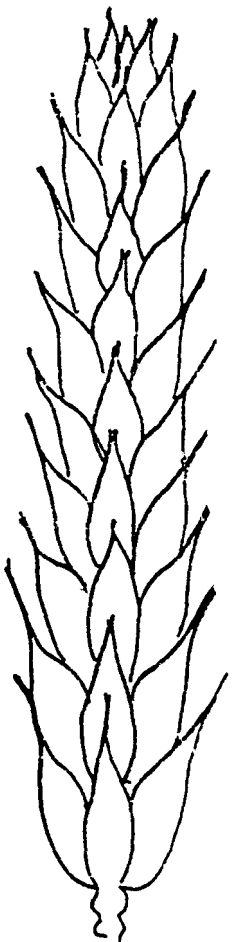
March 17,

agronomy gleanings

1989

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Department of Agronomy and Plant Genetics



CONGRATULATIONS

Congratulations to Dr. Jones and Dr. Rasmusson who have been granted single-quarter leaves fall quarter.

PHONEBOOKS AVAILABLE

Minneapolis (white and yellow pages) phonebooks are available at the campus post office.

GRAND RAPIDS NEW ADDRESS

When sending mail to either Robert Nyvall or David Rabas at Grand Rapids please include the street address:

North Central Exp. Sta.
1861 Hwy 169 E
Grand Rapids, MN 55744

HOSPITALIZED

Beverly Wyse had knee surgery on Thursday. She is doing well. Flowers were sent by the Department.

MARK YOUR CALENDARS

Faculty, staff, graduate and undergraduate students are all invited to the Seventeenth Annual Parent-Student Dinner on Thursday, April 13, 1989 at the Earle Brown Continuing Education Center, Shingle Creek Room. A cheese and cider reception will be held at 6:00 p.m. with dinner following at 6:45 p.m. Tickets can be purchased from Pat Kessler in 302 Agronomy by Monday, April 10th. Come and share an evening with our undergraduate students and their parents as we review the achievements and accomplishments of our undergraduate students.

CIVIL SERVICE EXCELLENCE AWARD

Get your nominations in now for the Civil Service Excellence Award. Anyone may nominate a member of the civil service staff for this departmental award. Submit nominations to Lynne in 411 Borlaug Hall.

SPRING GET-TOGETHER FOR AGRONOMY WOMEN

Cancellation: The date of the spring get-together for agronomy women will not be on April 13 due to a conflict. A new date will be announced later.

NEW BOOK IN LIBRARY

The Library has received Plant Breeding Methodology by N.F. Jensen. The book is a comparative analyses of procedures used in crop breeding and selection.

H.K. HAYES AWARD

The H.K. Hayes Lecture is scheduled for Monday, April 3 at 8:00 p.m. in the Earle Brown Center, Room 135A-C on the St. Paul Campus. This year's recipient is Peggy Egli. The lecture will be given by Garrison Wilkes, Professor of Biology at the Univ. of Massachusetts.

RETIREMENT

Trudy Peplinski will be retiring from her position as Senior Accountant at the Ag. Experiment Station on March 31. There will be a wine and cheese retirement reception in honor of Trudy on Tuesday, March 28, 2:30 - 4:00. Further details and invitations are forthcoming.

LOST CHECK

I have a check from Cenex Land O'Lakes for \$131.34 for travel expenses for 3/6/89. Please come in and let me know if it is yours. Judy Slyter

SOIL SCIENCE COLLOQUIUM

Soil Science & Ecology will offer An Interdisciplinary Colloquium during spring quarter on Tuesdays from 3:15 - 5:00 in Soils S415. For more information call Jonathan Haskett 625-5268.

INTERRUPTION OF BUILDING STEAM SERVICE

The interruption is to occur between the hours of 8:30 a.m. and 4:00 p.m. on Wednesday, March 22, 1989 in Borlaug Hall.

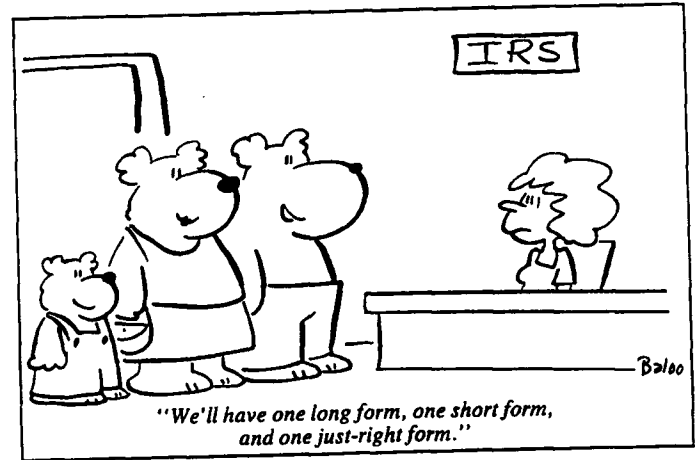
FOOD SERVICE HOURS DURING BREAK

The Cherrywood Room - 11:30-1:00 lunch
Grainery Cafe - will be closed during spring break but will reopen Mar. 27.
The Student Center Terrace Cafe -
Saturday, Mar. 18 11:00 am - 3:00 pm
Sunday, Mar. 19 Closed
Monday, Mar. 20 7:00 am - 4:30 pm
Tuesday Mar. 21 - Friday Mar. 24 -
7:00 am - 4:40 pm.

SEMINARS

**Wednes.
March 22** Agronomy Seminar
The Implications of Crop Choices in Tropical Agricultural Systems.
Rosheila Vather in 306 Borlaug Hall at 4:00 p.m.

**Monday
March 27** Special Seminar
"Developing Crop Ideotypes for the Western Australian Wheat Belt".
Dr. R.H. Sedgley from the Univ. of Western Australia in 306 Borlaug Hall at 4:00 p.m.



POSITION ANNOUNCEMENTS

- Research Asst., Hop Research, Dept. of Crop Science, Oregon State Univ., Corvallis, OR.
- Extension Specialist, Grain Crops, Dept. of Agronomy, Univ. of Missouri - Columbia.
- Extension Agronomist, Plant and Soil Science Dept., Univ. of Vermont, Burlington, Vermont.
- Crop Environmental Physiology - Research Teaching, Inst. of Ag. & Natural Res., Univ. of Nebraska, Lincoln, NE.
- Assistant or Associate Professor, Dept. of Hort., Washington State Univ., Pullman WA.
- Graduate research teaching Asst., Dept. of Agronomy, Univ. of Kentucky, Lexington, KY.
- Research Associate, Dept. of Agronomy, Louisiana State Univ., Baton Rouge, LA.
- Postdoc Fellow, Plant Physiology/Biochemistry, Dept. of Hort., North Carolina State Univ., Raleigh, NC.
- Openings with Management Recruiters,
 - Molecular Genetics Ph.D (2)
 - Plant Phys/Biochemistry BS/MS (2)
 - Tissue Culture Ph.D (1)
 - BS/MS (2)
- Quantitative Geneticist Ph.D (1)
- Extension Specialist, Pesticide Impact Assessment and Pesticide Applicator Training, Univ. of Kentucky, Lexington Kentucky.
- IPM Specialists, (1) plant pathology, (1) weed science, Managua, Nicaragua.



Arfo 'N' Janis / By Jimmy Johnson



March 24, 1989

agronomy gleanings 1989

Department of Agronomy and Plant Genetics

WELCOME BACK DR. SMITH

Welcome back Dr. Smith who has just returned from a quarter leave in Columbia. It's good to have you back!!!

WELCOME LEON VAN BEUNINGEN

Please welcome Leon Van Beuningen and his wife Erica to the department. Leon will be working on his Ph.D with Dr. Busch. He received his BS and MS at the University of Wageningen in the Netherlands. He has been working as a wheat pathologist/breeder for CIMMYT in Asuncion, Paraguay.

VISITING PROFESSOR

Geraldo Antonio Tosello will be visiting our department for 6 months working with Dr. Phillips. He is a corn breeder from Sao Paulo University in

Piracicaba, Brazil. He received his Ph.D. at Purdue with Dave Glover. His wife Darcy and two children Denise (13) and Debra (11) will visit at the end of July. Welcome to Minnesota.

THANK YOU!!!!

We would like to thank all of you for the beautiful planter and best wishes for the birth of our new son Greg. Mom and baby are doing fine.
Ed and Betty Schiefelbein

IT'S SPRING!

Tom has moved the cars out of crops service. They are parked on the west side of Crops Research for the summer months.

EASTER WISH

Harold Scott called to wish everyone a "Happy Easter"!!!

SPRING GET-TOGETHER

The Agronomy Faculty Women's Committee would like to invite the agronomy women to their spring get-together which will be held Thursday, April 20 at 7:30 p.m. in 1666 Coffman in the Social Room on the 3rd floor.

INTERNATIONAL STUDENTS!!!!

Financial Aid Applications are available for Interantional Students. Plan to attend one of the financial aid information meetings:

Tues., Apr. 4 4:15-6:15 Nicholson 209A
Thurs., Apr. 6 12:00-2:00 Coffman 320
Tues., Apr. 11 12:15-2:00 Wulling 230
Thurs., Apr. 13 4:15-6:15 Nicholson 122
Tues., Apr. 18 12:15-2:00 Wulling 230
After April 18, 1989, applications will be available at the Office of International Education, 10 Nicholson Hall. Deadline to submit completed applications and requested materials is July 1, 1989.

ST. PAUL CAMPUS RETIREMENT LUNCHEON

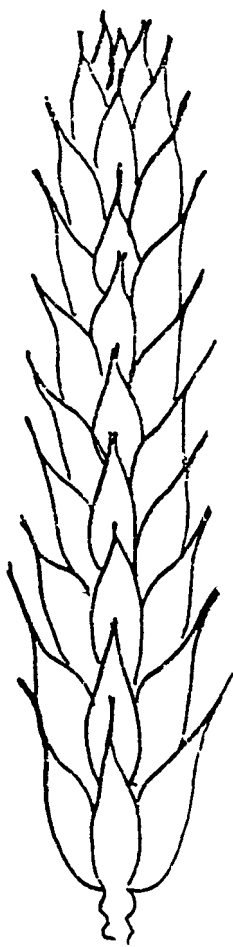
The Retirement Luncheon will be held Tuesday, May 9 at the Earle Brown Center. The buffet opens at 11:30 and the program begins at 12:30. The cost is \$3.00. Tickets must be purchased in advance from your Avis or from Nancy Pitzer in Rm 42 of the St. Paul Student Center. For more information contact Avis Kunkel 625-1937.

SILENT BID AUCTION

The West Central Experiment Station is holding a silent bid auction. Bid forms are available from the West Central Exp. Station, Morris, MN 56267 or contact Terry Beseman at (612)589-1771 for additional information. Some items of interest: 1953 Allis Chalmers WD 45 tractor (fair running condition), John Deere model 520 tractor in fair condition, John Deere cultivator, International cultivator, John Deere grain drill, etc... The list of items will be posted on the bulletin board outside of 411 Borlaug Hall.

POSITION ANNOUNCEMENTS

-Research Associate, Univ. of Arkansas Rice Research and Ext. Center, Stuttgart, Arkansas.
-Agricultural Agent, Univ. of Wisc. Ext., Madison, Wisconsin.
-Asst./Assoc. Prof. (Molecular Biologist), Dept. of Plant Sciences, South Dakota State Univ., Brookings, SD.
-Agronomy Graduate Research Assistantship, Dept. of Plant Sciences, South Dakota State Univ., Brookings, SD.
-Asst. Prof., Vegetable Breeding/Genetics, Dept. of Hort., Univ. of Wisc., Madison, WI



SEMINARS

Tues. March 28 **PLANT PATHOLOGY SEMINAR**
 "Temperature Sensitivity in Graminis Tritici - Triticum Aestivum Interaction".
 Beatriz Perez in Rm. 365 Borlaug Hall at 4:00 p.m.

Wednes. March 29 **ECOLOGY & BEHAVIORAL BIOLOGY**
 "Attraction and Aggregation in Territorial Animals".
 Dr. J. Stamps in Zoology 313 at 3:30 p.m.

Thurs. March 30 **AGRONOMY SEMINAR**
 Sustainable Agriculture Series.
 Richard Lewiston in 306 Borlaug Hall at 4:00 p.m.

PLANT PHYSIOLOGY SEMINAR
 Cellular and Molecular Aspects of Freezing Injury and Cold Acclimation with Reference to the Plasma Membrane.
 Dr. Peter Steponkus in 335 Borlaug Hall at 3:00 p.m.

FOREST RESOURCES SEMINAR
 Biomass and Nutrient Fluxes on Disturbed and Undisturbed Sites at the Hardies Creek Forest, Wisconsin.
 Xiwei Yin at 2:00 p.m. in Rm 100 Natural Resources Administration Building.

GENETICS & CELL BIOLOGY
 "Replication and functional alteration of the immune system by pseudorabies virus"
 Dr. Tom Molitor at 4:00 p.m. in Rm. 70 BioScience Center.

SAFETY SEMINARS

The Civil Service Liaison Committee has planned two safety seminars for early April and everyone is encouraged and welcome to attend:

1. Prevention of back injuries. April 5 at 3:00 p.m. in 306 Borlaug Hall, Kim Devine-Johnson, a Physical Therapist from Boynton Health Service. She will cover three areas body mechanics, proper posture, and prevention of back pain and injuries. (talk plus question and answer period)
2. Handling and Safety When Using Agricultural Chemicals. April 6 at 10:00 a.m. in 306 Borlaug Hall, Charles McJilton, Assistant Professor in Environmental and Occupational Health.

Plan to attend these seminars. Nearly everyone is at risk for back injuries, (especially people who sit at desks or at meetings all day) and many people handle agricultural chemicals in their jobs and are at risk for injuries. Refreshments will be served.

Have a safe and happy Easter weekend!!!!



March 31, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics

DAYLIGHT SAVINGS TIME

Daylight Savings Time starts this weekend. Don't forget to set your clock ahead by one hour when you go to bed on Saturday night.

GROWTH CHAMBER USERS

The Growth Chamber Committee recently distributed to the faculty and project scientists the new guidelines for the use and maintenance of the Agronomy growth chambers. For those of you who did not receive a copy, but would like one, see Lynne in 411 Borlaug Hall. She has a copy of the guidelines which you can xerox.

HAYES LECTURE AND AWARD

The H.K. Hayes Lecture is scheduled for Monday, April 3 at 8:00 p.m. in the Earle Brown Center, Room 135A-C on the St. Paul Campus. This year's recipient of the graduate student award will be Peggy Egli. The lecture will be given by Garrison Wilkes, Professor of Biology at the University of Massachusetts. He will discuss "Plant Exploration for Weeds and Crops". Dr. Wilkes travels throughout the world exploring for new sources of food crops and learning about their uses in society.

GRADUATE STUDENT DISCUSSION SESSION

GRAD STUDENTS - A discussion session with Dr. Garrison Wilkes is scheduled for Sunday, April 2, from 7:30-9:00 pm in 306 Borlaug Hall. These sessions have been very well received in the past and this year's discussion with Dr. Wilkes should be especially interesting. All grad students are encouraged to attend. Refreshments will be served!

GRAD CLUB MEETING

The Spring Grad Club Meeting is scheduled for Thursday, April 6, beginning at 3:30 in 306 Borlaug Hall. This is an especially important meeting since we will hold officer and committee elections for the upcoming year. Please take time to consider potential nominees. Cookies and beverages will be provided.

DRUG FREE WORKPLACE ACT

Copies of the University's statement on the Drug Free Workplace Act will be distributed to all employees through the March 31 payroll. Please read it.

CAR WANTED

Dr. Burnham's car has given out. If you know of a used car for sale please contact him by leaving a note in his mailbox or call us in the main office and we will get the message to him. Also, Dr. Burnham has a room for rent in his home in St. Anthony Park. Contact him if you know of someone who needs a place to live. THANK YOU.

STEAM SERVICE INTERRUPTION

The steam service in Borlaug Hall will be interrupted to repair a steam leak on Wednesday, April 5, between the hours of 8:30 a.m. and 4:00 p.m. This will affect the following units: Dishwasher, Sterilizer, Autoclave, Distiller, Humidifier, Domestic Hot Water Systems and the Heating System.

MISSING MUG

Has anyone seen a white coffee mug with "University of Wisconsin" printed in red letters on the side? Please return it to the main office of Agronomy. It has sentimental value.

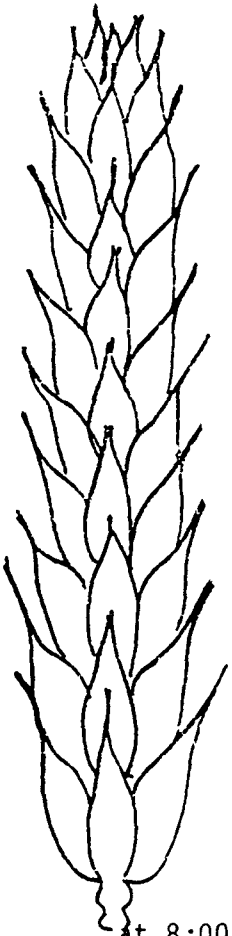
AGRONOMY WOMEN'S GET-TOGETHER

All Agronomy Women (female faculty, staff and graduate students and wives of faculty, staff and graduate students) are invited to a spring get-together at 1666 Coffman on Larpenteur Avenue in the Social Room (3rd floor) on Thursday, April 20 at 7:30 p.m. The program will be a musical group for the Music Section of the Faculty Women's Club. They will do a presentation of Irving Berlin's music.

POP BOTTLES NEEDED

Doug Miller needs some 1 and 2 liter pop bottles for their project. They use them for spraying. If you have any please bring them in. Thanks

Before you give someone a piece of your mind, make sure you can get by with what you have left.



SAFETY SEMINAR

The Civil Service Liaison Committee has planned two safety seminars and everyone is encouraged and welcome to attend.

1. Prevention of back injuries. April 5 at 3:00 p.m. in 306 Borlaug Hall, Kim Devine-Johnson, a Physical Therapist from Boynton Health Service. She will cover three areas, body mechanics, proper posture, and prevention of back pain and injuries.

2. Handling and Safety When Using Agricultural Chemicals. April 6 at 10:00 a.m. in 306 Borlaug Hall, Charles McJilton, Assistant Professor in Environmental and Occupational Health. Everyone should plan to attend these seminars.

POSITION ANNOUNCEMENTS

- Minnesota Extension Service is seeking applicants for Extension Agriculture Agent positions.

- Asst. to the Executive Director, Board of Regents, Univ. of Minnesota.

- Asst. Extension Specialist in Entomology, Minn. Extension Service.

- Post doc, Dept. of Plant Pathology and Crop Phys., Louisiana State University, Baton Rouge, LA.

- Ag. Research Position in Finland for 2 months (Aug.1-Sept. 30), Dept. of Plant **Breeding, Univ. of Helsinki, Finland.**

- Asst./Assoc. Extension Professor-Crop Management Specialist, Southwest Idaho Res. and Ext. Center at Parma, ID.

- Weed Scientist - Asst. Ext. Prof., University of Idaho, Twin Falls, ID.

- Scientific Aide I - Plant, Soils, and Ent. Sciences, Univ. of Idaho, Parma, ID.

- Ag. Officer (Cereals), Crop and Grassland Service, FAO-United Nations, stationed in Rome, Italy.

- Senior Ag. Specialist in Crop Variety Evaluation, Dept. of Agronomy, Univ. of Georgia, Tifton, GA.

- Vegetable IPM Program Associate, Rutgers, The State Univ. of New Jersey, Vineland, NJ.

- Asst. Prof., Dept. of Landscape Arch. and Regional Planning, Univ. of Mass. at Amherst.

- Asst. Prof. and Asst. Environmental Physicist/Water Scientist in Dept. of Land, Air, and Water Resources, Univ. of Calif., Davis, CA.

- Asst. or Assoc. Horticulturalist, Dept. of Botany, Univ. of Calif., Riverside, CA.

- Ag. Agent Door County, Wisconsin Extension Service, Strugeon Bay, WI.

- Horticulture Education Assistant, Milwaukee County, Milwaukee, WI.

1990-91 FULBRIGHT SCHOLAR PROGRAM

The Council for International Exchange of Scholars has announced the 1990-91 Fulbright Scholar Program. For more information see the bulletin board outside 411 Borlaug Hall.

PLANT BREEDING FACULTY

Please take the time to update your Graduate Student's Progress Reports in the file at Lynne's desk. Thank you.

SEMINARS

Monday SOIL SCIENCE SEMINAR

April 3 Fertilizer management for hard red spring wheat.
Dr. John Lamb, Northwest Exp. Station, in 375 Borlaug Hall at 3:00 p.m.

FOREST RESOURCES SEMINAR

Too much aluminum in the forest - is it more than beer cans?
Dr. Edward Sucoff in Rm 100 Natural Resources Admin. Bldg. at 3:00 p.m.

Tuesday PLANT PATHOLOGY SEMINARS

April 4 The Use of Biotechnology to Produce Disease Resistant Trees.
D. Skilling and M. Ostry, North Central Forest Exp. Station, in 203 NCFES at 3:30 p.m.

Thurs. GENETICS AND CELL BIOLOGY

April 6 Human spectrin genes.
Dr. John Winkelman, Human Genetics Institute, U. of M. in Rm 70 BioScience at 4:00 p.m.

PLANT PHYSIOLOGY SEMINAR

Hormonal Regulation of Gene Expression in Aleurone Layers in Cereal Grain.
David T-H Ho, Dept. of Biology, Washington Univ., in 335 Borlaug Hall at 3:00 p.m.

Friday SPECIAL AGRONOMY SEMINAR

April 7 Elicitation of phytoalexin synthesis in soybean.
Dr. Jurgen Ebel, Albert Ludwigs Universitat, Freiburg, in 306 Borlaug Hall at 3:00 p.m.

UNDERGRADUATE BANQUET

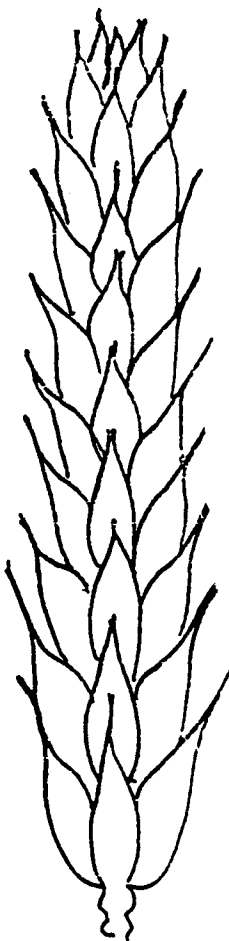
Purchase your tickets for the Undergraduate Banquet from Pat Kessler in 302 Agronomy by Monday, April 10. The banquet is scheduled for Thursday, April 13 in the Shingle Creek Room of the Earle Brown Center. A cheese and cider reception will be held at 6:00 p.m. with dinner following at 6:45. Come and share and evening with our undergraduate students and their parents as we review the achievements and accomplishments of our undergraduate students.

M.W.
9/9/86

April 10 1989

agronomy gleanings

Department of Agronomy and Plant Genetics



GRAD CLUB ELECTIONS

The Departmental Grad Club held elections on Thursday, April 6. Newly elected officers are:

- Brent Delzer - President
- Shawn Kaeppler - Vice Pres.
- Hakima Bahri - Secretary
- Paul Viger - Treasurer

Congratulations!!

SCIENTIFIC BIOTECHNOLOGY SHOW

Curtin Matheson Company will hold a scientific biotechnology show on Wednesday, April 12, 9-2 at Coffman Memorial Union, presenting products and seminars. Everyone is welcome.

MISSING BIT

Would whoever removed the small carving bit from the

rotary tool in the Agronomy shop-room please return it to Doug Miller. Thank you.

CARROLL VANCE HONORED IN TENNESSEE

Congratulations to Dr. Carroll Vance who has been selected to receive the Alumnus Award of Honor from East Tennessee State University (Johnson City, TN). The award recognizes ETSU graduates who have distinguished themselves in their careers. Dr. Vance will travel to Tennessee to receive the award on May 5.

NEW CAR

We have received a new car to replace the Ford Tempo in our pool. It is a camel brown Pontiac 6000, four-door sedan. The vehicle number is 2366. The keys will be in 408 Borlaug Hall. Tom Warnke

COMPUTER ROOM USERS

The combination to get into the computer room will be changed on Monday, April 17. The combination maybe obtained only from Lisa Cirks at the front desk in 411 Borlaug Hall. Remember for security purposes that this number should not be shared with anyone. If someone asks you for the number tell them to see Lisa. Thank you. Computer Room Committee

FACULTY COLLOQUIUM

ATTENTION FACULTY: The Faculty Colloquium described in a recent memo from the Grad Club Committee, will be held next winter quarter instead of this spring, due to suggestions that scheduling would be easier then. Thanks to Drs. Ehlike, Openshaw, Orf, Rasmusson, and Stuthman for volunteering to participate, and to Drs. Becker, Buhler, Crookston, Durgan, Gronwald, and Heichel for indicating interest. If anyone has comments or suggestions about the plans for the colloquium, please talk to the organizing committee members (L. Marshall, A. McCullough, H. Bahri, H. Kaeppler, B. Delzer).

UNDERGRADUATE BANQUET

Don't forget the Undergraduate Banquet is Thursday night (April 13) starting at 6:00 p.m. in the Shingle Creek Room of the Earle Brown Center. You may still purchase tickets from Pat Kessler today.

BACK SAFETY HANDOUTS

If you would like a copy of the handout from the back safety seminar last week please see Lynne in 411 Borlaug Hall.

GOODING RETIREMENT

Dr. John A. Gooding is officially retiring from the University of Minnesota on April 30, 1989. The Social Committee is planning a Retirement Wine and Cheese Reception for Dr. Gooding on Friday, April 28 from 3-5 p.m. in 306 Borlaug Hall. Plan to attend!

HMONG HANDWORK SALE

The Southeast Asian Ministry is planning an Open House and Hmong Handwork Sale at the Christ Lutheran Church, 105 W. University Ave., on Friday, April 21, 11-5 and Saturday, April 22, 9-2.

SPRING GET-TOGETHER

Women in Agronomy (female faculty, civil service, and graduate students, and wives of faculty, civil service, and graduate students) are invited to a Spring-Get-Together on Thursday, April 20 at 1666 Coffman (on Larpenter, near Cleveland) at 7:30 p.m. The program will be a presentation of Irving Berlin's music.

FIRE ALARM TESTING

The fire alarms in the Agronomy Building will be tested starting at 10 a.m. on Tuesday, April 12.

SEMINARS

Tuesday
April 11 **PLANT PATHOLOGY SEMINAR**
Old Field Plant Succession and Mechanisms of Plant Competition
Dr. David Tilman, Ecology and Behavioral Biology Department, in 365 Borlaug Hall at 4 pm.

ISSUES AND IDEAS SEMINAR
Yellowstone Area Fires - 1988.

Carter Gibbs, USDA Forest Service Research Coordinator, Greater Yellowstone Area and Deputy Station Director Intermountain Forest and Range Experiment Station - Ogden, Utah, in St. Paul Student Center Theatre at 12 noon.

PLANT BIOLOGY SEMINAR

Parasitic plants: signal controlling plant development.
David Lynn, Dept. of Chem., Univ. of Chicago, in B-70 BioScience at 4:00 p.m.

Wednes.
April 12 **ECOLOGY AND BEHAVIORAL BIOLOGY**
River fertilization effects on insects.

Dr. A. Hershey, Dept. of Biology, UM-Duluth, in 313 Zoology at 3:30 p.m.

MASTER OF AG. SEMINAR

The development and prevention of phytophthora root rot in soybeans.

Jim Sallstrom in 306 Borlaug Hall at 4:00 p.m.

Thursday
April 13 **GENETICS AND CELL BIOLOGY**

Mitosis in vivo: Mechanisms of anaphase spindle elongation
Dr. Zac Cande, Botany Dept., Univ. of Calif.-Berkeley, Rm 70 BioScience at 4:00 p.m.

AGRONOMY SEMINAR

Effect of early spring clipping and herbicide treatments on maturity, quality, yield and persistence of perennial forage legume.

Russ Matheson, in 306 Borlaug Hall at 1:00 p.m.

Friday
April 14 **SPECIAL SEMINAR**

The European economic community and the USA: A British farmer explores a way out of subsidies in agricultural development.

Patrick Evans small grain/livestock farmer from near Worcester, U.K. in 335 Borlaug at 3:00 p.m.

POSITIONS

- Department Head, Dept. of Plant and Soils Science and Biometeorology, Utah State University, Logan, UT.

- Plant Biochemist Technician, Garst Seed Company, Slater, Iowa.

- Senior Agricultural Specialist in Crop Variety Evaluation, Dept. of Agronomy, Univ. of Georgia Coastal Plain Exp. Station, Tifton, GA.

- Intern positions with the City of St. Paul Division of Parks and Recreation: Naturalist/program development intern; conservatory garden aide intern; forestry naturalist intern.

- Yard waste recycling coordinator, City of Milwaukee, Milwaukee, WI.

- County Extension Agent-Agriculture, Sherburne County, Elk River, MN.

- Peace Corps Representative, Dept. of Plant and Soil Science, Montana State University, Bozeman, MT.

- Production Research Agronomist, Pioneer Hi-Bred International, Inc., Tipton, Indiana.

- Postdoc in plant molecular cytogenetics, Dept. of Plant Pathology, Kansas State Univ., Manhattan, KS.

- Assistant Professor in Horticultural Science-Weed Science, North Carolina State Univ., Raleigh, NC.

DISPLAY CASES

New displays in the display cases on the second floor of Agronomy and near 335 Borlaug Hall have now been completed by Drs. Durgan and Hardman. Other projects should begin planning and developing displays of their work to replace these in six-months. Thank you to Drs. Durgan and Hardman for their many hours of work in completing these displays.

CONGRATULATIONS TO LEE HARDMAN

Lee Hardman was awarded the "Cracked Pin" award at the Faculty Bowling League Banquet last Wednesday night. This award is given to the person with the largest difference between high and low scores. In his case the high score was 225 and the low was 85. Congratulations also to the Forageurs bowling team for winning first place for the year (Jim Halgerson, Eric Ristau, Mark Matteson, Ryan Hockensmith, and Donn Vellekson).

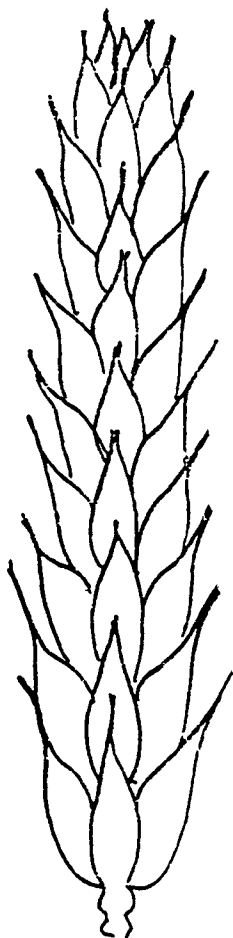
GOPHER CROPS AND SOILS CLUB MEETING

The Gopher Crops and Soils Club will meet on Tuesday, April 11, 5:00 p.m. in 306 Borlaug Hall for an election of officers for 1989-90 and to plan spring and summer activities. Free pizza will be served a 5:00 p.m.

APRIL 14,
1989

agronomy gleanings

Department of Agronomy and Plant Genetics



UNDERGRADUATE BANQUET

Our 17th Annual Parent-Student recognition dinner last night was a great success. We thank our undergraduate teachers and undergradaute students for planning and providing an excellent program. Teresa Schoeder did her usual outstanding job of recording major awards or recognitions on film. Thanks are also due to the number of faculty and their spouses who made our undergraduates and their parents feel welcome. Plan to attend this recognition dinner in 1990. O.C. Burnside

UNDERGRADUATE SCHOLARSHIPS

Congratulations to several of our undergraduates who received scholarships last night at the banquet: Daniel D. Anderson, Eric Spandl, Chris Goblirsch, Scott Reiland, Jonathan Fischer, Todd Vagts, Warren Trygestad, Todd Frank, David Reuter, Stephen Canner, Jane Grimsbo, and Lori Kelter. Joel Holthaus was awarded the W.M. Myers Outstanding Undergraduate Award.

NEW BABY GIRLS

Chris and Lisa Boerboom are the parents of new twin baby girls (fraternal twins). The babies were born on Friday, April 14 at 2:00 am and weighed 6 lbs. 3 oz. and 6 lbs. 4 oz. They have named their new daughters Emma Jean and Amy Elizabeth. Flowers were sent by the department.

NEW BABY

Tony Schenk, from the Becker Research Station, and his wife Colette are the parents of a new baby boy, Merrick Anthony Schenk, born on March 28. He weighed 6 lbs. 5.5 oz. Congratulations!

DEATH

Dr. Tom King, Professor Emeritus, from the Department of Plant Pathology died from a massive heart attack on Monday, April 10. Cards of condolence may be sent to Shirley King, Edgewater South, #222, Pequot Lakes, MN 56472.

DEPARTMENTAL PURCHASE ORDERS

Lately there have been quite a few instances of large purchases on personal credit cards for departmental supplies and equipment. This is a reminder that you should be spending your own money for departmental purchases only in an emergency and in all other cases you should be obtaining a departmental purchase order. That is one of the reasons they allow the department to dispense a purchase order for under \$500 without the hassle of going through the business office. You can spend up to \$200 for an EMERGENCY PURCHASE (for example: you are on the road and cannot do your work unless you purchase a piece of needed equipment, etc.). If it is over \$200 you must call the department, if over \$500 the business office. Judy

FULBRIGHT SCHOLAR PROGRAM WORKSHOP

Faculty and professional staff interested in applying for a Fulbright grant are invited to an application workshop on Monday, April 24 from 1-4 pm in the Dale Sheppard Room of the Campus Club, Coffman Union.

GOODDING RETIREMENT

Dr. Goodding's Retirement Wine and Cheese Reception will be held April 28 from 3-5 p.m. in 306 Borlaug Hall. RSVP to Lisa Cirks in 411 Borlaug Hall by April 18 if you plan to attend.

SPRING GET-TOGETHER

The Agronomy Women's Spring Get-together is scheduled for this coming Thursday, April 20 at 1666 Coffman (on Larpenter, near Cleveland) at 7:30 p.m. All women in agronomy are invited.

GROWTH CHAMBER USERS

When you change fluorescent tubes in your chamber, it is recommended that you wear protective goggles. This is to prevent eye injury should a tube implode. The Growth Chamber Committee has purchased goggles to be used for this purpose. Contact Kevin Betts (Borlaug Hall Chambers) or Donn Vellekson (Crops Research Chambers) if you plan to change fluorescent tubes in your chamber.

SEMINARS

Monday

April 19

HISTORY OF LIFE SCIENCES SEMINAR

Thomas Sadler Roberts: Father of Minnesota Ornithology.

Penelope Krosch, Asst. Prof., Univ. Archives, in 555 Diehl Hall at 12:00.

SOIL SCIENCE SEMINAR

Rhizobium extracellular polysaccharides in symbiotic nitrogen fixation.

Rui long Liu in 375 Borlaug Hall at 3 pm.

Tuesday

April 18

PLANT BIOLOGY SEMINAR

Plant competition, nitrogen cycling, and the structure of a grassland community.

Dave Wedin, Dept. of EBB, in B-70 BioScience at 4 pm.

PLANT PATHOLOGY SEMINAR

Microclimate factors affecting infections of beans by *Sclerotinia sclerotiorum*.

Mel Wiens, Staples Irrigation Center, in 365 Borlaug Hall at 4 pm.

Wednes.

April 19

BIOSCI POLICY COUNCIL SEMINAR

Promoter-specific and general factors regulating transcription by RNA polymerase II.

Prof. Philip Sharp, Dept. of Biol., MIT, in 10 Palmer Classroom at 2:15 pm.

ECOLOGY AND BEHAVIORIAL BIOLOGY

Effects of monarch butterfly spermatophores on reproductive success in males and females: Conflict or cooperation between the sexes?

Karen Oberhauser, in 313 Zoology at 3:30 pm

Thursday

April 20

GENETICS AND CELL BIOLOGY

Electron transfer events in the water splitting complex.

Dr. Zac Cande, Botany Dept., Univ. of CA, Berkeley, in Rm 70 BioScience at 4 pm.

SPECIAL INTERNATIONAL SEMINAR

Prof. David Biesboer, from the Dept. of Plant Biology, has recently returned from Kenya and will give a slide presentation on his experiences as a faculty mentor in the East African country, 335 Borlaug Hall at 11:30.

FOREST RESOURCES SEMINAR

Photography for documenting research and to support education efforts.

Don Breneman, Minn. Extension Service, in Rm 100 Natural Resources Admin. Bldg. at 3 pm.

POSITION ANNOUNCEMENTS

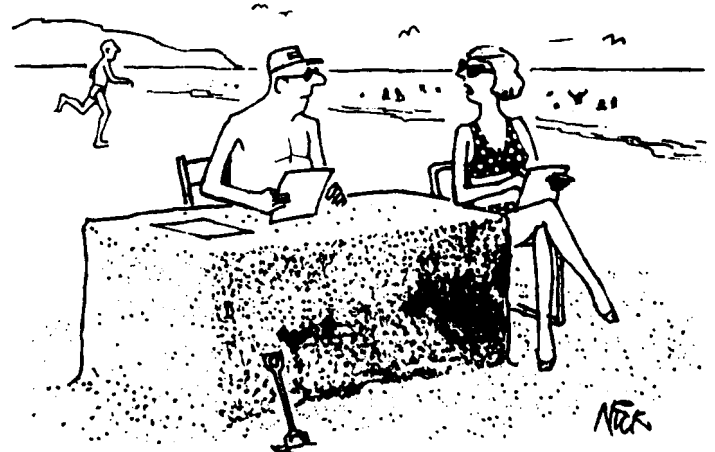
- Post-doc position in alternative/sustainable agriculture, School of Nutrition, Tufts Univ., Medford, MA.
- Asst. or Assoc. Professor, Extension Agronomist-Crop Production, North Dakota State University, Fargo, ND.
- Assistant Specialist, IPM Weed Scientist, Univ. of Massachusetts, Cooperative Extension, Amherst, MA.

GLOVES FOUND

I have a pair of black leather gloves that were found in 335 Borlaug Hall. If they are yours see Lynne in 411 Borlaug.

CONGRATULATIONS TO STEVE SIMMONS

Congratulations to Simmons who has been awarded the Horace T. Morse Award from the Minnesota Alumni Association for Outstanding Contributions to Undergraduate Education.



"George, can't you ever relax?"



"Your mom sure is a good cook!"

MW
249815

April 21, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics



CONGRATULATIONS!!!!

Congratulations to Don and Becky Lee on their new son, Samuel Jonathan Lee who was born Monday, April 17 at 2:45 p.m. Samuel weighed 8 lbs. 10 oz.

SURGERY

Ron Phillips will have surgery for a ruptured disc on Monday, April 24, at the University of Minnesota Hospital. Recuperation time is anticipated at two to four weeks.

HARLAN STOEHR LEAVING

Harlan Stoehr has resigned from MCIA to form a marketing communication firm, M-Comm., Ltd. He will continue to do work for MCIA on a contract consulting basis.

THANK YOU

Thank you for the pretty flowers that arrived so quickly after the birth of our daughters. We are at home and settling into a schedule. Thanks for all your good wishes.
The Chris Boerboom Family

CIVIL SERVICE

The University Civil Service Committee will hold a meeting Thursday, April 27 at 32 Earl Brown Center, 1:00 - 4:00 p.m. All civil service employees are welcome. Plan to attend.

REMINDER

Reminder to civil service employees to fill out and return the "Staff Opinion Survey's" that were mailed this week to your home. This is an excellent opportunity to voice your opinions about civil service issues.

ITEMS TO BE RETURNED

Would the faculty member who borrowed the portable movie screen from the teaching lab in December for a meeting, please return it or let me know its whereabouts. Anyone else who has checked out equipment (slide trays, slide mounters, movie projectors, etc.) please return these items once you are done with them. Thank you. Teresa Schoeder

CIVIL SERVICE AWARDS

Agronomy's 4th Annual Civil Service Awards Ceremony will be held on Wednesday, April 26th at 3:30 p.m. in 306 Borlaug Hall. Cake and coffee will be served. Everyone's welcome.

GOPHER CROPS & SOIL CLUB ELECTIONS 1989-1990

Gopher Crops and Soils Club held elections last week. The new officers for next year are:
President: Dan Herfurth
Vice President: Dave Reuter
Treasurer: Scott Reiland
Recording Secretary: Lori Kelter
Corresponding Secretary: Dan Anderson
Crops/Soils - Chair: Eric Spandl
Assistant: Gary Suess
Ag. Board Rep: Mark Grundmayer
Advisor (2 yr. term - Agronomy) Vern Cardwel
Advisor (returning - Soils) Terry Cooper

INTERESTED IN INTERNATIONAL AGRICULTURE?

The Gopher Crops & Soils Club presents "Agriculture in Developing Countries" on Tuesday, April 25 in 306 Borlaug Hall. A free supper will be served at 5:00 p.m. and the program begins at 6:00. Speakers include: Kathy Wagiskjold (Uganda, Africa) and Larry Smith (Columbia, South America). Come and share the experience of travel and work in Agriculture in a developing country.

RECRUITING

Mr. Ken McNamara from Lodi, Wisconsin has accepted the position as coordinator of the Sustainable Agriculture Working Group and will begin work on Monday, June 12. Dr. Chrissl Roeske has indicated that the crop biochemist (Brun) position does not fit her future research goals and she has rejected our offer. The search for the weed ecologist (Eberlein) position is well under way. We are still awaiting written approval to begin the search for the chair position in molecular genetics.

1989 AGRONOMY FISHING TRIP

Due to popular demand, this year's fishing trip will be held from Friday, June 16 to Sunday, June 18 at Cedar Springs Lodge on the south shores of Leech Lake. To reserve a cabin contact Bev Durgan at 625-7262. There is unlimited camping.

FFA STUDENT TOURS

Remember to welcome and interact with our FFA student visitors Monday, April 24 as they assemble on the third floor foyer of Borlaug Hall prior to going on tours from 2:45-4:30. This is an excellent opportunity for us to recruit future undergraduate students from a select group of outstanding high school students that come from throughout Minnesota. We appreciate all the work and planning of Vern Cardwell and his committee, plus the many individuals assisting with or conducting the various tours. Let us make this an enjoyable and educational experience for our FFA visitors.

ANNUAL MINNESOTA ALUMNI ASSOCIATION MEETING

Walter Cronkite will be this year's featured speaker at the Annual Meeting of the Minnesota Alumni Association on May 17. There is a reception in the Bierman Athletic Field Building at 5:30 p.m. followed by the dinner and program at 6:30. Tickets are \$30.00 per person and are available by calling 612/626-ALUM or the Dayton's ticket office 612/989-2987.

POSITION ANNOUNCEMENTS

- Environmental Toxicology & Water Advisor, Univ. of California, Oakland, CA.
- Extension Agronomist, North Dakota State Univ., Fargo, North Dakota.
- Horticulturist: Cranberry Research and Extension, Washington State Univ., Pullman Washington.
- Assistant Professor and Assistant Plant Nutritionist, University of California, Davis, California.
- Research Assistant, Department of Agronomy, Kansas State Univ., Manhattan, Kansas.
- Faculty Position, crop science full-time lecturer, California Polytechnic State University, San Luis Obispo, CA.
- Research/Sales Associate, Illinois Foundation Seeds, Inc., Champaign, IL.
- Three Senior Scientists, West Africa Rice Development Association.

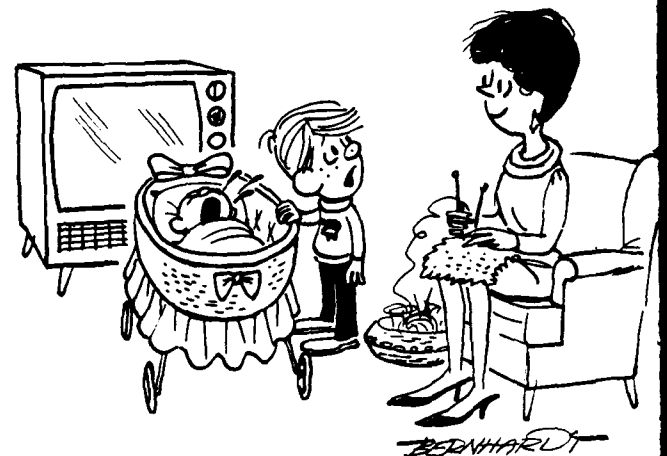
GOODING RETIREMENT

Dr. John Gooding's Retirement Wine and Cheese Reception will be held April 28 from 3-5 p.m. in 306 Borlaug Hall. RSVP to Lisa Cirks in 411 Borlaug Hall.

Fishing for compliments works every time—if you have the right bait.

SEMINARS

- Monday April 24** SOIL SCIENCE SEMINAR
Divining rods & water walkers: The impact of center pivot irrigation on the soil and water resource of Northeast Nebraska, by Steve El at 3:00 p.m. in 375 Borlaug Hall.
- FOREST RESOURCES SEMINAR
Assessing land degradation, by Karlyn Eckman at 3:00 p.m. in room 100 Nat. Res. Adm. Building.
- BIOLOGY & MEDICINE SEMINAR
Human tract into children's classic: Bibliographic studies of black beauty, by Ted Greenfield at 12:00 pm.m in 555 Diehl Hall.
- FOOD SCIENCE & NUTRITION SEMINAR
Cell structure development in mode cake systems heated by microwave and conventional methods employing different leavening systems, by Laurie Lambert in 8205 FScN.
- Tuesday April 25** ENTOMOLOGY SEMINAR
The use of caddisflies (Trichoptera) in paleoecology-literature review, by Diann Crane at 3:00 p.m. in 490 Hodson Hall.
- PLANT PATHOLOGY SEMINAR
Soil borne mosaic virus disease of wheat, by Necmettin Bolat at 4:00 p.m. in 365 Borlaug Hall.
- PLANT BIOLOGY SEMINAR
The influence of mycorrhizae on competition and succession in South western Wyoming, by Dr. Edith Allen at 4:00 p.m. in room B-70 in the Biological Sciences Center.
- Wednes. April 26** ECOLOGY & BEHAVIORAL BIOLOGY
Remembering the founder principle, by Dr. W. Provine at 3:30 p.m. in Zoology 313.
- April 27** GENETICS & CELL BIOLOGY SEMINAR
Thurs. Acetylcholine receptor clustering, by Dr. Robert Bloch at 4:00 p.m. in rm 70 BioScience Center.
- April 28** ECOLOGY & BEHAVIORAL BIOLOGY
Friday Motoo kimura and the neutral theory of molecular evolution: an historical perspective, by Dr. W. Provine at 3:30 p.m. in 313 Zoology.



"How do you adjust the volume on this baby?"

M. W. Ag 86-5
April 28, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics

AGRONOMY FISHING TRIP

This is a reminder that your reservations and deposits for this year's fishing trip are due to me on Monday, May 1. Three cabins are still available, and there is plenty of camping space. If anyone has any questions, please contact me in Room 205 Agronomy, 625-7262.

Bev Durgan

TRIP TO TWINS BALL GAME

Join us for a Twins ball game (Boston vs. Twins) Tuesday, May 2nd. Meet in undergrad room (A101 Agronomy) and we will leave from there at 5:00 p.m. Transportation furnished. Everyone welcome.

Gopher Crops & Soils Club

CONGRATULATIONS!!!!

Congratulations to Dick Halstead, USDA-ARS agricultural research technician on Dr. Rine's oat genetics project, who was recently promoted to GS-9. This promotion reflects Dick's contributions to the project over the past fifteen years and his expanded responsibilities in coordinating the Regional Uniform Oat Performance Nurseries.

SURGERY

Algem Peterson had surgery on Thursday, April 27. She is recovering at home. Flowers were sent by the Department.

CONGRATULATIONS!!!!

Congratulations to Dr. Cardwell and his family on his first granddaughter, Nicole Ashley, born last weekend.

THANK YOU

This comes to let you know just how much I appreciate your kindness and your special thoughtfulness. Thank you so much for the beautiful plant.

Bev Wyse

THANK YOU

Dear Friends in the Agronomy Department, Thank you so much for the beautiful azalea plant you sent to welcome our son "Mitch" (Mitchell Alexander) - born April 25. Baby, Dad and Mom are all doing fine and enjoying the time together. (And wasn't it nice of the kid to bring us some rain on arrival?!)

Melinda Mitchell and Frank Treadwell

THANK YOU

Thank you for the neat chlorophyll-deficient plants in the baby-blue pot sent to us the day after Samuel was born. We are all enjoying them at home now. The cards and gifts from our friends here in the Department have been very special to us.

Don and Becky Lee

JOINT VENTURE

We are pleased to inform you that Eli Lilly and Company and The Dow Chemical Company have signed a letter of intent for a joint venture that will combine the agrichemical business divisions of the two companies. The name of the new company will be Dow Elanco Inc. We strongly believe that this joint venture will afford us the opportunity to provide better products and services in the future from the combined operations of the two companies. We in Elanco have enjoyed an excellent working relationship with you in the past, and we will continue to conduct our business through Dow Elanco Inc. in the same manner in the future.

Sincerely, Kermit R. Burnside, Manager

CONFERENCE - JULY 28-29, 1989

A Conference on New Directions in Data, Information Systems, and Their Uses will be held at Louisiana State University, Baton Rouge, Louisiana, July 28-29, 1989. The Conference is hosted by The American Agricultural Economics Association. This Symposium will provide a lively form for exchanging ideas, identifying data problems and needs, and exploring new and alternative information sources and techniques. Additional information is posted on the Bulletin Board.

AIR CONDITIONING START-UP

Absorption chillers for building air conditioning systems will be started, temperatures requiring, in Borlaug Hall on May 1, 1989.

POSITION ANNOUNCEMENTS

- Agronomist, International Center for Agricultural Research in the Dry Areas, Syria, Africa.
- Research Fellow, Department of Plant Pathology, University of Minnesota, St. Paul.
- Assistant/Associate Professor, Agricultural Micrometeorologist, Department of Agronomy, Kansas State University, Manhattan, KS.
- Assistant or Associate Professor Soil Physics (Emphasis on Water Quality), Department of Agronomy, University of Illinois, Urbana, IL.
- County Extension Agent, Agriculture, Martin County, Minnesota Extension Service, St. Paul.
- Instructor/Assistant Professor, Department of Ornamental Horticulture and Landscape Design, University of Tennessee, Knoxville, TN.
- Graduate Assistants (3 positions), Department of Ornamental Horticulture and Landscape Design, University of Tennessee, Knoxville, TN.
- Part time, instructor position (1-4 positions) with rank of Instructor or Assistant Professor, Department of Ornamental Horticulture and Landscape Design, University of Tennessee, Knoxville, TN.
- Endowed Chair in Agricultural Biotechnology, Oklahoma State University, Stillwater, OK.

SEMINARS

- Monday** FOREST RESOURCES SEMINAR
May 1 Waldsterben (Forest Decline) in West Germany, by Greg Arthaud, 3:00 p.m., 100 Natural Resources Adm. Bldg.
- BIOLOGICAL & MEDICINE
After Darwin, Before Mendel: August Weismann and 19th Century Theories and Heredity, by Ted Greenfield, 12:00 Noon, 555 Diehl Hall.
- FOOD SCI & NUTRITION SEMINAR
Development of a statistical model to predict the initial freezing point of ice cream mix, by Frank Jasulka in 8205 FScN.
- SOIL SCIENCE & PLANT PATH
The impact of rotation, tillage and herbicides on cereal root diseases, by Dr. A.D. Rovira, Australia, 4:00 p.m., 375 Borlaug Hall.

Tuesday ENTOMOLOGY SEMINAR
May 2 Vitellogenesis in the lady beetle, *C. septempunctata*, by Qi-Hui Zhai at 4:00 p.m., 495 Hodson Hall.

PLANT PATHOLOGY SEMINAR

Altered virulence in recombinant fungal pathogens by Weiping Xie, 4:00 p.m., 365 Borlaug Hall.

GENETICS & CELL BIOLOGY

Telomeres: Getting a hold on the end of the chromosome by Dan Gottschling, 4:00 p.m., Rm 70 BioScience Center.

SOIL SCIENCE & PLANT PATH

Biology of the rhizosphere by Dr. A.D. Rovira, 5:00 p.m., 375 Borlaug Hall.

SOIL SCIENCE SEMINAR

Agriculture and Environment: A European Perspective by Dr. Johan Bouma, 1:00 p.m, 33 McNeal Hall.

Wednes. FOREST RESOURCES SEMINAR

May 3 The changing cost of performing forest research by David N. Bengston, 3:00 p.m., Rm 100 Natural Resources Administration Building.

ECOLOGY & BEHAVIORAL BIO

Effects of Large Mammal Browsing on Nutrient Cycling: Convergence in Boreal Forest and Savannah Woodlands by J. Bryant, Alaska, 3:30 p.m., Zoology 313.

Wednes. NORTH CENTRAL FOREST EXPERIMENT STATION SEMINAR
May 10

Prescribed Natural Fire in the Boundary Waters Canoe Area Wilderness, by Gary Lidholm and Bud Heinselman, 2:00 p.m., 2nd Floor Conference Room, NC Forest Experiment Station.

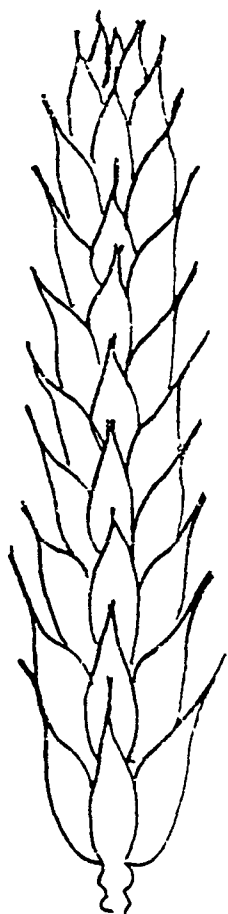
LONG-LASTING LITTER

With the touring and park-going seasons almost here, it seems like a good time to remind ourselves how long it takes litter to decompose and how much it costs to clean it up. Paper takes 2-5 months to decompose; milk cartons, 5 years; plastic bags, 10-20 years; nylon cloth, 30-40 years; plastic containers, 50-80 years; aluminum, 80-100 years; and plastic form, NEVER. Litter cleanup in national parks alone costs \$15 million a year. It's encouraging to note that biodegradable plastic bags are being developed, and fast-food places are beginning to package their take-out items in materials other than plastic containers. Let's Pitch In to Keep America Clean.

agronomy gleanings

MAY 5, 1989

Department of Agronomy and Plant Genetics



CONGRATULATIONS

Elizabeth Grabau had a baby girl. Stephanie Alexandra Wang weighs 6 lbs. 13 oz. Flowers were sent by the department.

CONGRATULATIONS

Congratulations to Jean Lambert who was awarded the Gamma Sigma Delta Award of Merit on April 27.

WELCOME

Welcome to Dr. Paolo Iosco, a visiting professor from Italy, who will be working with Ronald Phillips for 10 months. He has rented an unfurnished apartment and could use some items of furniture and a telephone. If you have anything that you are not using and would be willing to loan to Dr. Iosco, please let me know. He would particularly like to have a table and some chairs. Avis

THANK YOU

Thank each of you for making our retirement reception so enjoyable and memorable. It could not have been a more perfect occasion. Your generous gift will leave me with out a valid excuse for poor play

on the golf course this summer. Again, thank you. Jack Goodding

THANK YOU

Our thanks to Dr. Goodding. The Andrew Wyeth "Country Farm" print that has been hanging in the reception area of 411 Borlaug Hall since we moved into the building was loaned to the department by Dr. Goodding. He has decided to make the print a gift to the department and we are very grateful to him as it seems to "fit" in that area and we get many compliments on it.

1st ANNUAL MN-WI COOPERATIVE RES. WORKSHOP

Faculty: I talked to Ron Doersch and told him that we favor a joint meeting between two departments. The Sept. 28 to Oct. 1 dates are set because the reservation had been made a year in advance. Our Advisory Committee will constitute our Planning Committee with Ervin Oelke as chairman. Doersch will set up a similar planning committee from his department. Once an agenda is set we can then determine who from this department will be interested in attending. Orvin Burnside

COA RETRENCHMENT AND REDIRECTION

The COA will be retrenched \$700,000 from 0100 monies over the next several years. About \$350,000 to \$400,000 will be transferred during 1988-1989 plus 1/3 of \$300,000 to \$350,000 over the next 3 years. The COA has 68 FTE faculty positions on 0100 funds, and the retrenchment will involve closing out open faculty positions (eg. J. Goodding) or transferring of programs out of the COA (eg. Landscape Architecture). COA undergraduate enrollment has dropped from about 2000 to 700 students and it continues to drop. Cuts that have to be made will be visible, painful, programic, and from open faculty positions. You will be hearing more about this in the weeks ahead. Burnside

HAMM MEMORIAL LECTURE

The Hamm Memorial Lecture will be held on Monday, May 22 at 7:30 p.m. in Room 335 Borlaug Hall. Ann Vidaver will speak on "Bacteria Inside Healthy Plants: Properties and Role".

STOREHOUSE ORDERS

Please check the xerox room at least twice a week if you have ordered through the Storehouse. We have orders sitting for weeks at a time not being claimed. Right now we have an order - (2 boxes) of plastic bags 8 x 48 100 clear. 1 Bag of water soluble fertilizer 20-10-20 and 1 box volumetric pipets case of 12 and 2 bottles of Ferrous Sulfate. Please come and claim these if you ordered them. If you use the green carts to move boxes please return them promptly. Thank You!

SEMINARS

**Monday
May 8**

ENTOMOLOGY SEMINAR

The Chinese Academy of Science in Beijing. Vitellogensis in the Lady Beetle, *C. Septempunctata* by Zhai, Qi-Hui at 4:00 p.m. in 495 Hodson Hall.

FOREST RESOURCES SEMINAR

Database Design for Solving Forest Inventory and Planning Problems by Matt Pelkki at 3:00 p.m. in room 100 Natural Resources Admin. Bldg.

SOIL SCIENCE SEMINAR

A Method for Assessing Hydrogeologic Sensitivity by Mike Trojan at 3:00 pm in 375 Borlaug Hall.

GREY FRESHWATER BIOLOGICAL SEMINAR

Biochemistry of Herbicides Inhibiting Acetolactate Synthase by Dr. V Subramanian at the Grey Freshwater Biological Institute, County Roads 15 & 19, Navarre, MN 55392

**Tuesday
May 9**

PLANT BIOLOGY SEMINAR

Photosystems I and II Stoichiometry During Changing Photoflux Density by Dr. Elizabeth Gantt at 4:00 p.m. in room B-70 Biological Sciences Center.

POSITION ANNOUNCEMENT

- Soil Scientist, USDA, Ag. Res. Service. Southern plains area, water quality & watershed research lab. Durant, Oklahoma.
- Farm Advisor-Groundwater Toxicology, Univ of California, Oakland, CA.
- Supervisor, Soil Testing and Plant Analysis Lab. Virginia Polytechnic Institute and State University, Blacksburg, Virginia.
- Associate Alfalfa Breeder, Sun Prairie, WI
- Agricultural Agent, Marinette County, Madison, Wisconsin.
- Tenure Track Position in Forage Crop Production, University of Manitoba, Dept. of Plant Science, Winnipeg, Manitoba Canada.
- Graduate Research Assistant, Wheat Breeding Dept. of Agronomy, Kansas State Univ., Manhattan, Kansas.
- Research Associate, Dept. of Plant Pathology and Crop Physiology, Louisiana State Univ. Ag. Center, Baton Rouge, LA.
- Biochemistry Instructor, fall term 1989, Hamline University, St. Paul, MN.
- Non-majors biology, Hamline University, St. Paul, MN.

SEMINAR ANNOUNCEMENT

**MOLECULAR GENETICS ASSISTANT PROFESSORSHIP INTERVIEWS
DEPARTMENT OF PLANT PATHOLOGY**

Dr. Thomas J. Wolpert

Dr. Wolpert is currently a Research Associate at the Boyce Thompson Institute for Plant Research at Cornell University. Ph.D. & M.S. degrees in Plant Pathology from Purdue University, B.S. degree from the University of Nebraska.

Seminar - 12:00 noon, Monday, May 8 in 365 Borlaug - "Molecular Interactions in Victoria Blight of Oats"

Dr. Nevin D. Young

Dr. Young is currently a Research Associate in the Department of Plant Breeding and Biometry at Cornell University. Ph.D. and M.S. degrees in the Department of Biology from Yale University, B.S. degree in Biology/Chemistry from Indiana University.









Seminar - 12:00 noon, Thursday, May 11 in 365 Borlaug - "Map-Based Cloning of Disease Resistance Genes in Tomato: with RFLP's"















Dr. Roger W. Innes

Dr. Innes is currently a Research Associate in the Department of Plant Pathology at the University of California-Berkeley. Ph.D. degree in Molecular, Cellular and Developmental Biology from the University of Colorado-Boulder. B.A. Humboldt State University - California.

Seminar - 12:00 noon, Thursday, May 18 in 365 Borlaug - "Transposon Tagging of Resistance Genes in *Arabidopsis thaliana*".

"Match-the-Tracks"

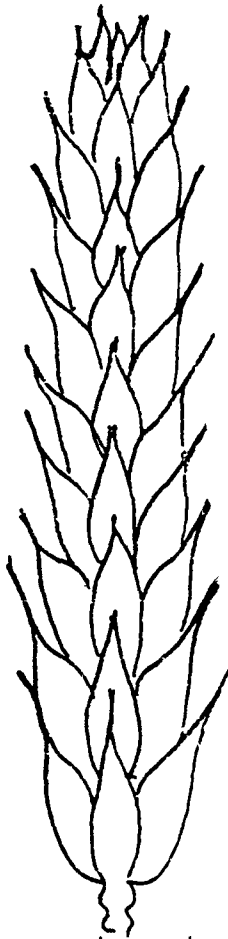
		
RIVER OTTER		COYOTE
		
MUSKRAT	BLACK BEAR	WEASEL
		
BOBCAT	RACCOON	RED FOX

				
				
3	8	4	7	
				
6	1	5		

[May 12, 1989]

agronomy gleanings

Department of Agronomy and Plant Genetics



THANK YOU

Thanks to the members of the Agronomy Department for the flowers sent during my illness. They were greatly appreciated.
Algem Peterson

THANK YOU

Thank you very much for the lovely flowering plant I received while in the hospital last week. It definitely made the stay a little cheerier and we are still enjoying it here at home. Again, many thanks.
Beth Grabau

THANK YOU

Thanks so much for the beautiful Martha Washington geranium sent to me in the hospital. It certainly cheered me along to a speedy recovery. I hope to be back to work at least part time next week. Your many thoughtful acts over the last three weeks have been greatly appreciated.
Ron Phillips

HMONG TEXTILES

Hmong textiles are on display at the Paul Whitney Larson Gallery May 1st thru the 19th. The exhibit includes traditional apparel and needlework of the Blue Hmong, White Hmong and Striped Hmong. It explores the changing traditions in their folk art.

CONGRATULATIONS!!!!

Congratulations to Steve Simmons who will receive the College of Agriculture Alumni Society 1989 Faculty Leadership Award, and to Mr. Bruce Hamnes who will receive the College of Agriculture Alumni Society 1989 Outstanding Friend Award. Mr. Hamnes and Dr. Simmons will receive their awards at the Agriculture Spring Picnic and the Annual Meeting at the Landscape Arboretum on May 21.

Simple

- Terry: "I wish you'd drive more carefully! I get nervous when you gun your motor and go roaring around these blind curves on two wheels."
- Mikey: "Shucks, just do what I do—keep your eyes closed."

GC AND SC AT CANTERBURY DOWNS

The Gopher Crops & Soils Club is sponsoring a day at Canterbury Downs Wednesday, May 17th at 3:00 p.m. Meet in A101 Agronomy Undergrad Room. Transportation is provided. Everyone is welcome!!!!

SUMMER AND FALL FIELD DAYS FOR 1989

	Summer	Fall
Waseca	June 27	Sept 14
Lamberton	June 28	Sept 13
Morris	July 13	Sept 12
Crookston	July 19	
Grand Rapids	July 20	

Mark your calendars!!!!

NEW CLASS TIMES

The Iwin Cities Campus will move to the 50-minute class module beginning winter quarter 1990. The winter quarter class schedule for Winter 1990 will be the first publication carrying winter quarter times and rooms. These will be on the new time module. The times printed in the 1989-90 CEE evening class bulletin are correct for fall, winter, and spring quarters. No adjustments are necessary.

Minneapolis	St. Paul
0800-0850	0830-0920
0905-0955	0935-1025
1010-1100	1040-1130
1115-1205	1145-1235
1220-1310	1250-1340
1325-1415	1355-1445
1430-1520	1500-1550
1535-1625	1605-1655
1640-1730	

GOPHER CROPS & SOILS STEAK & CHICKEN FRY

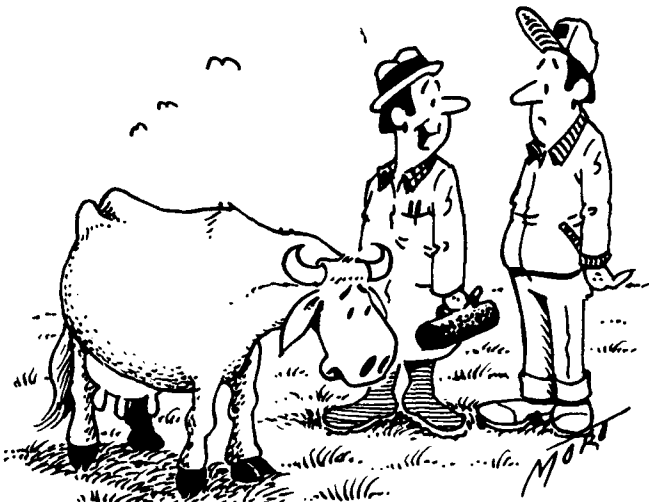
The annual student-faculty steak & chicken fry will be on May 23rd starting at 5:30. The location this year is the Roseville Central Park. The cost of tickets will be \$5.00 for faculty and \$4.00 for students. Tickets may be purchased from any Gopher Crop & Soil Executive Member or from Pat Kessler in Agronomy 302. Please let us know by May 22 on your preference either steak or chicken.

POSITION ANNOUNCEMENTS

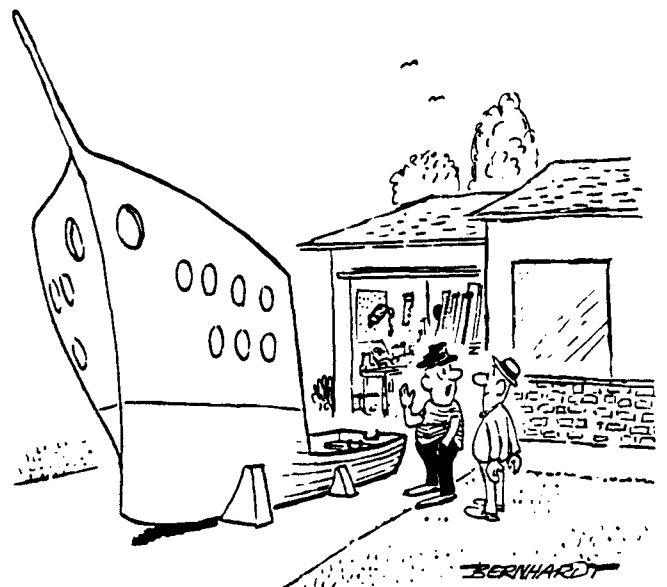
- Associate Professor or Professor, Dept. of Agronomy, Iowa State University, Ames, Iowa.
- Postdoc, Plant Physiology, Ecology, Agronomy, and Botany, Utah State University, Logan, UT.
- Chair, Dept. of Plant Biology, College of Life Sciences and Agriculture, Univ. of New Hampshire, Durham, NH.
- Molecular Biologist, Gene Regulation Lab Manager, Biotechnology Research Department, Pioneer Hi-Bred International, Johnston, Iowa.
- Administrative Manager, Biotechnology, Pioneer Hi-Bred International, Johnston, Iowa.
- Four (4) vacancies for three-year terms beginning September, 1989, are available on the University of Minnesota, Civil Service Committee, Univ. of Minnesota.
- Research Associate, Dept. of Agronomy and Soils, Auburn University, AL.
- Graduate Research Assistantship, Dept. of Plant and Soil Science, Montana State Univ., Bozeman, Montana.
- Associate/Full Professor of Turfgrass Management, The State Univ. of New Jersey Rutgers, Cook College, Dept. of Soils and Crops, New Brunswick, New Jersey.
- Professor and Head, Dept. of Soil Science, North Carolina State Univ., Raleigh, NC.
- Programming, Public Relations, International Publications, Resource Center Management, Worldspan (a center for global perspectives), for more information call Mary Petrie at 625-7200.
- Three Senior Scientists, West Africa Rice Development Association.

SEMINARS

- Monday
May 15**
- FOOD SCIENCE & NUTRITION SEMINAR**
"Use of niacin-producing lactic streptococci for the control of *Listeria monocytogenes* in cheese", by I-Wen CHIU.
- FOREST RESOURCES SEMINAR**
"Classification of native prairie using satellite imagery and geographic information systems", by Paul Maus at 3:00 p.m. in room 100 Natural Res. Admin. Building.
- BIOLOGY & MEDICINE SEMINAR**
"The problem of the organic individual in mid-19th century Germany", by Lynn K. Nyhart at 12:00 p.m. in 555 Diehl Hall.
- Wednes.
May 17**
- HORT. SCIENCE & LANDSCAPE ARCH.**
Size and scale in biology: or why all mammals get 1.5×10^9 heart beats by Bud Markhart.
- ECOLOGY & BEHAVIORAL BIOLOGY**
"Cascading trophic interactions and lake productivity", by Dr. S. carpenter at 3:30 in Zoology 313.
- Thurs.
May 18**
- GENETICS & CELL BIOLOGY SEMINAR**
"Effects of cyclosporin A on T-cell development", by Dr. Mark Jenkins at 4:00 in room 70 BioScience Center.
- BOTANY SEMINAR**
Mitochondrial DNA and the Phylogeny of the Basidiomycete *Paxillus involutus* by LaVonne Bataiden at 3:00 in room 6 BioScience Center.



"Don't worry, I've never lost a horse yet."

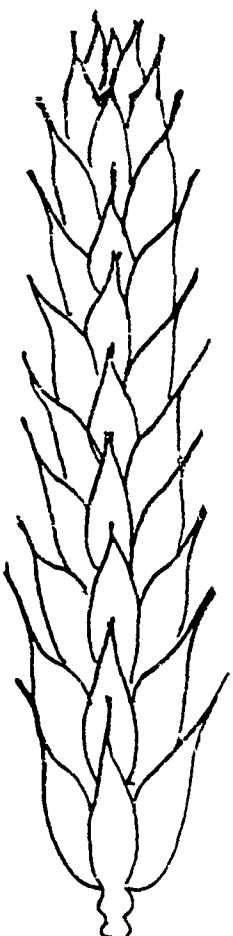


"When I ran out of money I had to alter the plans a little bit."

May 22, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics



CHAIRS FOR SALE

Agronomy personnel only: We have received approval from the Office of Vice President for Finance and Operations to sell 19 oak ladder-back chairs to department personnel only (the chairs were removed from 408 Agronomy). Please call Avis at 625-1937 if you are interested.

CONGRATULATIONS TO PUTNAM

Congratulations to Daniel Putnam who has been awarded a Grant-in-Aid Research award from the Graduate School for his proposal "Biological Basis for Overyielding in Two Intercropping Systems."

NEW HEAD OF RHETORIC DEPARTMENT

Dr. Billie Wahlstrom has accepted the position as Head of the Rhetoric Department. Dr. Wahlstrom is currently at the Department of Humanities at Michigan Technological University in Houghton, Michigan. She will take over this position in September.

DRS. RINES AND GRONWALD PROMOTED

Dr. Howard Rines has been promoted to Adjunct Professor and Dr. John Gronwald has been promoted to Adjunct Associate Professor by the U of M Board of Regents. Congratulations to both.

GREATER MINNESOTA GRANTS PROGRAM

1989 Agri-Product Research Grants Program. The Greater Minnesota Corporation is now accepting applications until July 10 for proposals which support applied agricultural utilization research leading to the development and commercialization of new products, process and value improvements of agricultural commodities.

NEW ASSISTANT TO THE DEAN OF COA

Shelly Diment has accepted the position of Assistant to the Dean of the College of Agriculture effective May 18. She has taken over Deb Cran's position.

VISITOR FROM OICD

Richard Rortved, Director of Scientific and Technical Cooperation from the USDA, Office of International Cooperation and Development, will give a presentation on Friday, May 26 at 11:20 p.m in 201 Coffey Hall to faculty who are interested in obtaining grants to do cooperative research in the 30 countries covered by OICD. This presentation may of special interest to faculty who are planning a single quarter or sabbatical leave in any of these countries.

CONFERENCE ON SMALL FARMING

The University of Missouri-Columbia will host a conference on "Expanding the Future of the Small Farm: What Works!" on September 24-27. Check the bulletin board outside 411 Borlaug Hall for registration information.

THE INCREASING ROLE OF WOMEN IN SCIENCE

Dr. Anne Vidaver and Dr. Susan Harlander will conduct a campus-wide open forum on "The Increasing Role of Women in Science" on Tuesday, May 23 in 306 Borlaug Hall from 1:30-3:00 p.m. Dr. Vidaver is the Head of the Plant Pathology Department at the Univ. of Nebraska, Dr. Harlander is an Assistant Professor in Food Science and Nutrition at U of M.

In addition to this forum, Dr. Anne Vidaver will present the 1989 Philip C. Hamm Memorial Lecture on Monday, May 22 at 7:30 p.m. in 335 Borlaug Hall. Her topic is "Bacteria Inside Healthy Plants: Properties and Role." If anyone wishes to meet with Dr. Vidaver during her visit to campus please contact Delores Huebner at 5-8200.

STEAK AND CHICKEN FRY

Get your tickets today for the annual student-faculty steak and chicken fry on Tuesday, May 23 at 5:30 in Central Park of Roseville. Ticket price is \$4 for students and \$5 for faculty. Purchase tickets from Pat Kesser in 302 Agronomy by May 22.

Quote For The Day: Experience enables you to recognize a mistake when you make it again.

SEMINARS

**Monday
May 22**

SOIL SCIENCE SEMINAR

The role of phosphorus and potassium uptake in negative plant responses to soil compaction.

Michael Shaw Dolan, in 375 Borlaug at 1:00 p.m.

SOIL SCIENCE SEMINAR

Microbe - Mediated Fe and Mn Redox Reactions in Soil.

Brian Kinkle, in 375 Borlaug at 3:00 p.m.

FOREST RESOURCES SEMINAR

The changing environment of natural resource management.

Jan Hacker, in 100 Natural Resources Admin. Bldg. at 3 p.m.

**Tuesday
May 23**

PLANT BIOLOGY SEMINAR

How to be an endangered species: the population genetics of *Lespedeza*
Chris Cole, in B70 BioScience at 4 p.m.

ENTOMOLOGY SEMINAR

The use of caddisflies (Trichoptera) in paleoecology - Literature Review.

Dianne Crane, in 490 Hodson Hall at 3 p.m.

**Wednes.
May 24**

ECOLOGY AND BEHAVIORAL BIOLOGY

Profound implications of theoretical quantitative genetics for evolutionary biology.

Dr. M. Turelli, Dept. of Genetics, Univ. of Calif.-Davis, CA.

HORTICULTURAL SCIENCE

Responses of plant microtubules to freezing. John Carter.

FOREST RESOURCES SEMINAR

Classification of native prairie using satellite imagery and geographic information systems.

Paul Maus, in Rm 100 Natural Resources Admin. Bldg. at 3 p.m.

**Thurs.
May 25**

GENETICS AND CELL BIOLOGY

Tubulin gene expression and microtubule function in *Drosophila*.

Elizabeth Raff, Univ. of Indiana, in Rm 70 BioScience at 4:00 p.m.

**Friday
May 26**

SOIL SCIENCE DEPARTMENT

Degradation of halogenated hydrocarbons by the ammonia-oxidizing bacteria.

Alan Hooper, in 375 Borlaug Hall at 1:00 p.m.

POSITION ANNOUNCEMENTS

- Post doctoral research associate to work on the molecular biology and regulation of dormancy in woody plants, Dept. of Hort., Oregon State Univ., Corvallis, OR.

- Assistant Prof. to focus on abiotic crop stress in relation to crop production. Central Oregon Exp. Station, Redmond, OR.

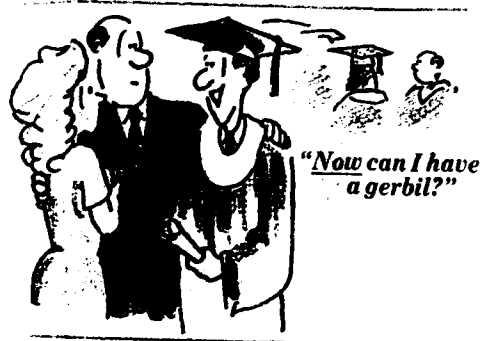
- Research Associate in weed science (M.S. or Ph.D.), Washington State Univ., Pullman, WA.

FISHING TRIP - DON'T MISS IT

The Departmental Fishing Trip for 1989 is fast approaching (June 16-18) at Cedar Springs Lodge on the south shores of beautiful Leech Lake. Check with Bev Durgan to make reservations. The departmental fishing trip is an experience you won't to miss. There are still cabins left if you are interested.

STATE EXTENSION FACULTY

Effective July 1, 1989, MES will begin using the term "state extension faculty" instead of "specialist" to more accurately describe these roles to our clientere and university colleagues.



-MILWAUKEE
May 26, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics

CONGRATULATIONS

Bob and Beth Buehler are the proud parents of a new baby girl. Natilie Elizabeth was born on Saturday, May 21, 1989, and weighed 8 lbs. 6 oz. Congratulations!

THEFT

Another theft of a billfold has been reported on campus. Please do not leave your office unlocked and your personal items unattended.

NEW DEPARTMENT HEAD OF SOILS IS HERE

The new department head of Soil Science has started. Please welcome H.H. Cheng and his wife Jo to the University and to Minnesota.

WATER QUALITY FIELD DAY

The 3rd annual field day of the U of M Water Quality center's groundwater quality and agricultural chemicals management research projects at the Rosholt Farm adjacent to Westport, Minnesota will be held on August 9th from 8:30 to 2:30. Mark your calendar. Scientists from six projects will present their research results.

VISITING PROFESSOR

Dr. Christine Nebiolo will be a visiting professor in Burle Gengenbach's lab from June 16-August 15. She would like to rent or share an apartment within walking distance of St. Paul Campus. Any information or ideas would be appreciated. See Dr. Gengenbach or Lynne in 411 Borlaug Hall.

FISHING TRIP IS FAST APPROACHING

The Agronomy Department Fishing Trip is fast approaching (June 16, 17, 18). Sign up with Bev Durgan if you are interested. Everyone is welcome to come along to Cedar Springs Lodge on beautiful Leech Lake to catch outstanding walleye, northern, bass, etc.

GRAD CLUB SPRING PICNIC

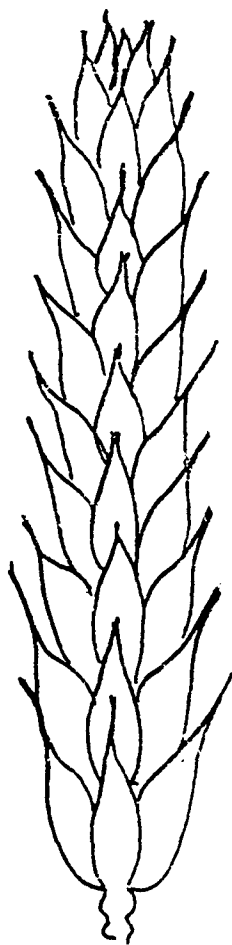
The Grad Club Spring Picnic will be held on Wednesday, June 14 starting at 5:30 p.m. It will be at the Dale Street Shelter in Central Park. Bring meat for yourself and a dish to pass. Contact Lynn Dahleen if you have any questions.

MONDAY IS A HOLIDAY

The University will be closed on Monday, May 29 in observance of the Memorial Day holiday. Have a good and safe weekend.

MALE ROOMMATE WANTED

Need a male roommate to share one bedroom apartment with an agronomy student. Call Larry at 624-0714.



SEMINARS

Tuesday
May 30

PLANT BIOLOGY SEMINAR

Ribosomal gene tracers of plant molecular evolution. Dr. Elizabeth Zimmer, Louisiana State University, in Room B-70 Biological Sciences Center at 4:00 p.m.

U OF M MEDICAL SCHOOL
CENTENNIAL EVENT

Schooling: Does it Matter? And What Makes for Success? by Robert Ferrera, Superintendent of Minneapolis Public Schools, at 2-620 Moos Tower, Minneapolis Campus at 7:00 p.m.

ENTOMOLOGY SEMINAR

Title to be announced by Margot Monson, Graduate Student, in 490 Hodson Hall at 3:00 p.m.

Wednesday
May 31

FOREST RESOURCES SEMINAR

Comparison of LANDSAT TM, SPOT and optical bar camera for assessing gypsy moth defoliation patterns in central Michigan by Peter Joria in Rm 100 Natural Resources Adm. Bldg, at 3:00 p.m.

Thursday
June 1

GENETICS & CELL BIOLOGY

Molecular characterization of the non-bacilliform viruses by Dr. Neil Olszewski in Rm 70 BioScience Center at 4:00 p.m.

FOREST RESOURCES SEMINAR

A neoclassical model of forestry in society by Marc McDill, in Rm 100 Natural Resources Adm. Bldg., at 3:00 p.m.
and
Applying dimensional analysis in forest biometrics by Marc McDill, in Rm 100 Natural Resources Adm. Bldg. at 4:00 p.m.

Monday
June 5

RHETORIC ORAL PRESENTATION

Master of Ag in Technical Communication by Mary McGowan, in Rm 224 Haecker Hall at 11:30 a.m.

POSITION ANNOUNCEMENTS

- Assistant/Associate Professor, Agricultural Micrometeorologist, Department of Agronomy, Kansas State University, Manhattan, KS.
- Research Assistant, Department of Agronomy, Kansas State University, Manhattan, KS.
- Director of the University of Minnesota Press, Minneapolis, Minnesota.
- Agricultural Agent, Door County, Sturgeon Bay, WI.
- Research Associate, Louisiana Agricultural Experiment Station, Louisiana State University, Baton Rouge, LA.
- Specialist, Plant and Soil Science, University of Tennessee, Nashville, TN.

Doodle Space

M'W la Ag 862

June 2, 1988

19897

agronomy gleanings

Department of Agronomy and Plant Genetics

LOCK OR KEY PROBLEMS

If you have any lock or key problems, please let me know as the Key Shop would be able to handle our requests right away as this is a slow time for them.
Avis

LOST CALCULATOR

A small tan Texas Instrument calculator was found in the xerox room, see Lynne in 411 if it's yours.

GRAD CLUB SPRING PICNIC

The Grad Club Spring Picnic will be held on Wednesday, June 14 starting at 5:30 p.m. It will be at the Dale Street Shelter in Central Park. Bring meat for yourself and a dish to pass. Contact Lynn Dahleen if you have any questions.

ROOMMATE WANTED

Roommate wanted to share a room in a two bedroom apartment near St. Paul Campus, available June 1st. For more information contact Aziz at 644-3871 or 625-6794.

ASA SHORT-TERM ENRICHMENT PROGRAM

The American Society of Agronomy has been awarded a Short-Term Enrichment Program (STEP) grant in the amount of \$3500. This grant is to provide funds for foreign graduate students to attend the annual meetings of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America in Las Vegas, Nevada, 15-20 October 1989. The Short-Term Enrichment Program is made possible by the Directorate for Educational and Cultural Affairs of the U.S. Information Agency (USIA), and is administered by the Institute of International Education. See Lynne in 411 Borlaug for applications.

INTERCROPPING COLLOQUIUM IN FALL 1989!!!

Announcing -- Intercropping Colloquium in Fall, 1989!
Course #: Agro 8070, Ent 8240, Soil 8111
Instructors: Deborah Allan, David Andow and Dan Putnam
Time: Tuesdays, 3 - 4:30
Location: Soils Building, S415
Credits: One credit

If you have any questions about this course call D. Allan at 5-3158 or Dr. Putnam at 4-1211.

AIDS SEMINARS

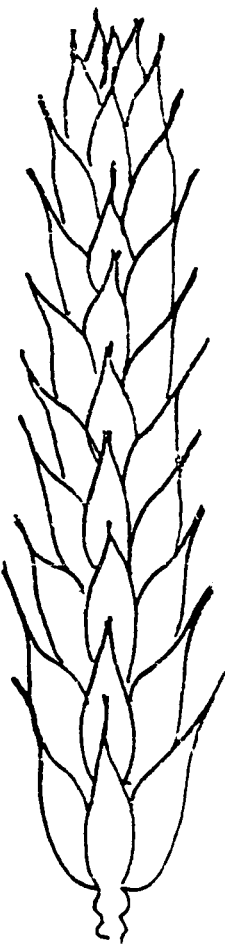
The University Employee Assistance Program and Personnel Department are planning an AIDS education seminar for Civil Service and Bargaining Unit employees on the Twin Cities Campus. Dates and times will be announced later.

SEMINARS

Tuesday June 6 PLANT BIOLOGY SEMINAR
Transcriptional and post-transcriptional regulation of chloroplast gene expression by Dr. Richard Hallik at 4:00 p.m. in Room B-70 Biological Sciences Center.

Thursday June 8 Ph.D. THESIS DEFENSE SEMINAR
Development and Characterization of Friable, Embryogenic Oat Callus, and Cellular Microinjection of DNA by Phil Bregitzer at 1:00 p.m. in 306 Borlaug.

FOREST RESOURCES SEMINAR
Database design for solving forest inventory and planning problems by Matt Pelkki at 3:00 p.m. in Room 100 Nat. Res. Admn. Bldg.

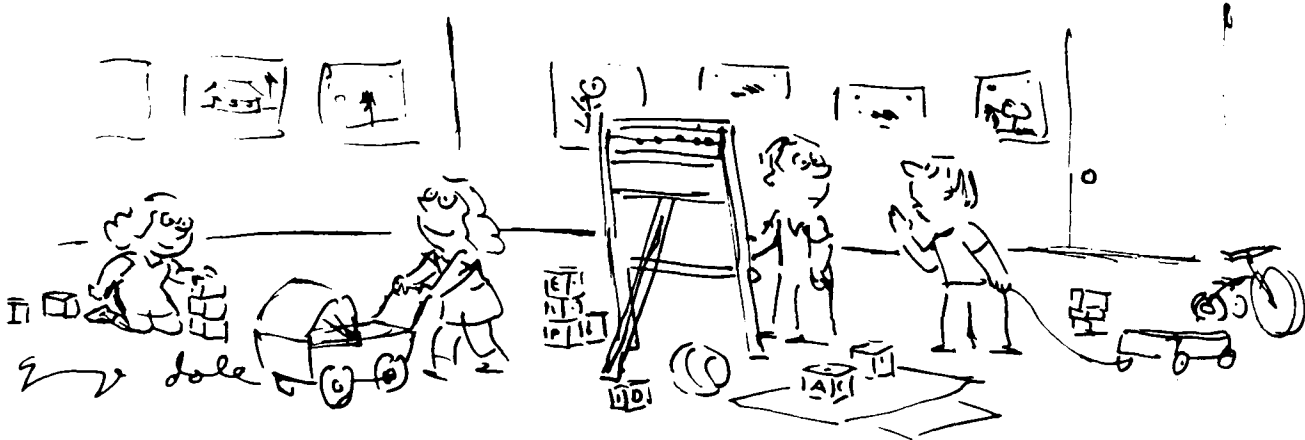


POSITION ANNOUNCEMENTS

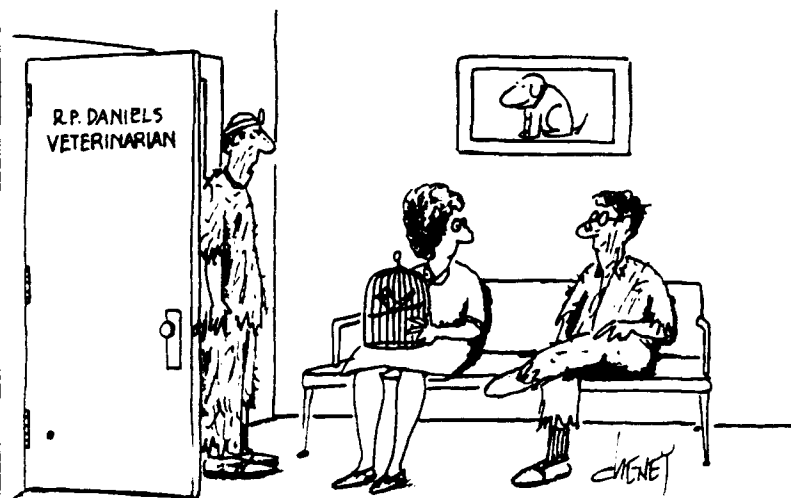
- Assistant Professor, Dept. of Agriculture, Eastern Kentucky University, Richmond, KY.
- Graduate Research Assistantships, Oregon State University, Corvallis, OR.
- Executive Vice-President, Soil and Water Conservation Society, Ankeny, Iowa (near Des Moines).
- Assistant Research Professor, New Jersey State Agricultural Experiment Station Ir-4 Headquarters - Cook College, Rutgers, The State University of New Jersey, New Brunswick, NJ.
- Agricultural Agent, Walworth County (southeast Wisconsin in the CES Southeast District).
- Plant Molecular Biologist, Department of Botany and Plant Pathology, Purdue Univ., West Lafayette, IN.



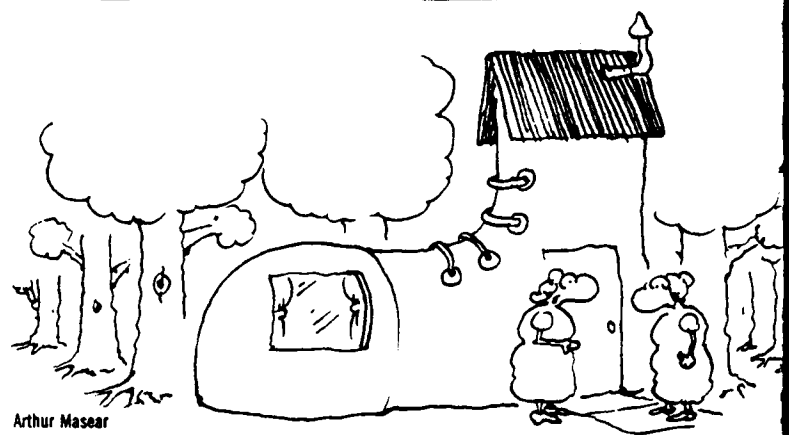
"I don't care if they are the biggest fish you ever caught! Get 'em out of here!"



"I sure hate to think about the day when we've got to start kissing them."



"Mr. Witherspoon, I think we should have a little talk about your cat."



"Well let's see . . . Johnny is working for Adidas, Doris is an orthopedic surgeon, Stuart is working for Dr. Scholl, Linda is . . ."

MW 5A815
JUNE 9,

agronomy gleanings 1989

Department of Agronomy and Plant Genetics

THANK YOU

We would like to thank the department for the flower arrangement sent to us after the birth of our daughter, Natalie. The arrangement really helped brighten our home and was greatly appreciated.

HOSPITALIZED

Mrs. Ausemus had a bad fall recently and is at the Presbyterian Home. Mrs. Myers is in Midway Hospital with a back problem.

ROOMMATE WANTED

Jim Kurle is looking for a roommate to share a 2 bedroom upper duplex located at Como and Lexington. Rent and utilities are \$320/month. Available now. call 625-8232 or 488-9512.

UNCLAIMED CHECK

Judy Slyter has a check from E.I. duPont for \$20.00 and has no idea to whom it belongs. Please see her if you have information on this.

LONG DISTANCE TELEPHONE CALLERS

Please be aware that you are charged for a call (after 7 rings - 45 secs.) even though you do not make a connection. So, do not let a phone ring too long if you do not wish to be charged for the call.

DEMOGRAPHIC UPDATE FORMS

You were recently sent a Demographic Information Update form by Administrative Information Services (AIS). Returning these forms is critical to providing staff and academic employees with new bar-coded identification cards this fall.

Information in the Staff Demographic Database will be used to personalize the cards and support an ID card validation database that will be used in conjunction with the bar code within the University. Card data will include an individual's role (i.e. staff, academic employee), name, social security number (SSN) or a system-assigned number if SSN is withheld, and an expiration date. INDIVIDUALS WHO ARE NOT IN THE DATABASE WILL NOT RECEIVE A NEW IDENTIFICATION CARD. If you have not yet completed the Staff Demographic Form, please do so now and give it to Avis -- DO NOT SEND IT IN DIRECTLY TO AIS. If you did not receive a form, please see me (Avis) for a form to complete.

CIVIL SERVICE

We received 27 ballots for the election of new representatives on the departmental Liaison Committee and for the College of Ag Civil Service Advisory Committee. The new Liaison Committee members are Tom Warnke and Eric Ristau. The new Advisory Committee members are Ed Schiefelbein and Lynne Medgaarden.

ATTENTION FACULTY

Gene Allen has sent a memo to us on how we might more effectively complete for grant funds from the Greater Minnesota Corporation. See Lynne if you would like a copy.

NATIONAL DAIRY PROMOTION GUIDELINES

The National Dairy Promotion and Research Board (NDPRB) has issued abbreviated guidelines for proposals for research projects to expand the demand/use of milk and dairy products for human consumption. If any faculty member wishes to submit a proposal we have more detailed application procedures available which you can get from Elsa Batica at 625-4211. The deadline for all proposals is July 3, 1989.

PROTECTING INTELLECTUAL PROPERTY

What is it? Who owns it? How can it be protected? Should it be protected? Need answers? Attend a day long symposium! October 2, 1989 in the Earl Brown Center, St. Paul Campus.



"Make a fuss over her peanut butter..."

MIDWEST BIOTECHNOLOGY SYMPOSIUM

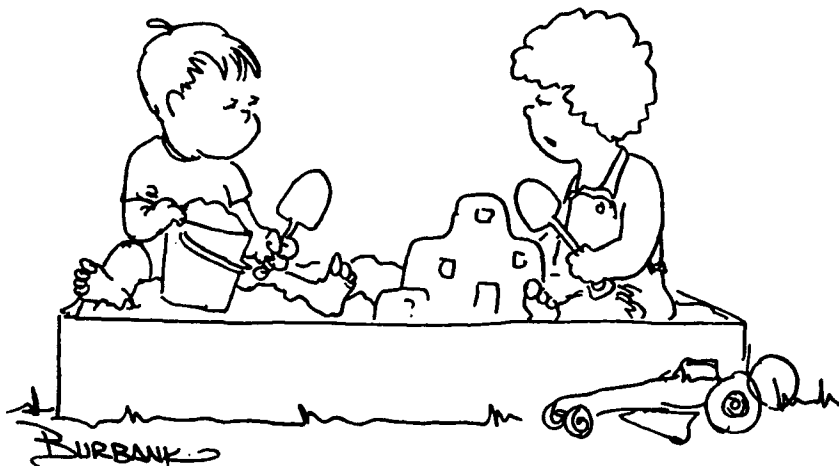
The Midwest Biotechnology Symposium for 1989 will be held June 28-30. The topics are Biocatalysis and Bioseparation and will be held in the Earl Brown Continuing Education Center.

HOUSE FOR RENT

August 1989 -- December 15, 1989. 1935 Washburn Ave. N., Minneapolis, MN 55411. Furnished, three bedrooms, formal living room, formal dining room, breakfast nook in high kitchen, family room and rec room, 1 1/2 bath, laundry room with shower stall, screened porch off living room, deck off second level, two blocks from golden valley and one block from wirth Parkway. Close to express bus (19) to downtown Minneapolis. \$700/month (utilities included). Call Robert Jones 625-1267 (Office) or 521-1302 (Home).

SEMINARS

- Monday June 12** PLANT MOLECULAR GENETICS SEMINAR
Characterization of plasmid-like DNA isolated from the red alga *Gacilaria chilensis* by Dr. Richard Villemur 12:00 noon in 239 Gortner Labs.
- FOREST RESOURCES SEMINAR
Sustainability and participation in forestry projects in adverse conditions: the case of Ali Matan refugee camp, luuq, somalia* by Karlyn Eckman at 3:00 p.m. in room 100 Nat. Res. Admin. Building.
- SOIL SCIENCE SEMINAR
Effect of tillage on upland crop establishment in rice-based cropping sequence by Susan Maghari at 3:00 p.m. in 375 Borlaug Hall.



"Was that your beeper or mine?"

POSITION ANNOUNCEMENTS

- Manager, Quality Services Laboratory and Cereal Chemist, Aberdeen, Idaho.
- Extension Agent, Crops, Resource Development, and 4-H - Youth, Gilliam County.
- Assistant or Associate Professor, Dept. of Horticulture, Univ. of Georgia, Griffin, GA.
- Agricultural Agent, Univ. of Wisconsin-Extension, Madison, WI.
- Manager, Colorado Seed Growers Association and Extension Seed Certification Specialist, Colorado State Univ., Ft. Collins, CO.
- Assistant Professor of Soils, College of Agriculture and Biological Sciences, Dept. Plant Science, South Dakota State Univ., Brookings, SD.
- Assistant Extension Specialist, Farm Management/Extension Educator, Univ. of Minn., Mn. Extension Service, St. Paul, Minn.
- Assistant Agronomist, North Central Research Center, Minot, ND.
- Assistant/Associate Professor - Soil Fertility, Dept. of Agronomy & Soils, Auburn Univ., Auburn University, AL.
- Cotton Geneticist, Stoneville, MS.
- Position in Breeding and Genetics of Durum Wheat, Crops and Weed Sciences, North Dakota State Univ., Fargo, ND.
- Three Senior Scientists, West Africa Rice Development Association.



"I'd like to see something that's sort of designy, kind of trendy, definitely zingy but not kitschy or kooky."

agronomy gleanings

1989

Department of Agronomy and Plant Genetics

CONGRATULATIONS!!!

Congratulations to Heidi Lillibridge, a Plant Breeding student in Horticulture, and Hal Mickelson who were recently married.

CONGRATULATIONS!!!

Congratulations to Lori Marshall who won a Graduate School Doctoral Dissertation Fellowship for 1989-1990.

RIDES NEEDED

Mamadou Ndiaye is looking for rides to the Grand Rapids, Waseca, Lamberton and Crookston field days, if you are going to any of these and can give him a ride please call him at 5-6794 or leave a message in his mailbox.

NEW ACTING HEAD

John Carter will serve as acting head of Horticultural Science after Jim Bartz retires on June 30.

PLANT BREEDING STUDENTS

A Plant Breeding Discussion Group meeting will be held at 7:30 p.m. on Thursday, June 22 at Dr. Stucker's home. The topic of discussion will be Management Hierarchy, featuring Dr. Ron Ferriss, Research Program Director of Northrup King, Stanton, MN. Refreshments will be provided. A map to Dr. Stucker's home is on the bulletin board.

THE SISTER'S OF MERCY FARM FIELD DAY

The Sister's of Mercy Farm, headed by Sister Esther Nickel, will hold a field day on Saturday, June 24 at their farm near Jackson Minnesota. They received a grant from the Minnesota Department of Agriculture to work on Alternative Methods of Weed Control in Corn. Jeff Gunsolus is planning to attend if anyone wants to ride along just ask him. They are planning a free hog roast during their field day. Everyone is welcome.

CHINA CENTER ADVISORY COMMITTEE MEMBERS

The China Center will sponsor a discussion featuring several U of M Chinese students concerning the current situation in the P.R.C. at the first in a series of brown bag lunches June 14 45 Nicholson Hall, 12:00-1:00 p.m.

NEW MCIA FOUNDATION SEED MANAGER

Roger Wippler, St. Paul, has accepted the Foundation Seed Manager position and will join the staff officially on July 5.

SEMINARS

Friday M.S. THESIS DEFENSE

June 30 Cover Crops: Potential for Conservation and Crop Production in Minnesota by Hal Abernathy at 2:00 p.m. in 306 Borlaug Hall.

POSITION ANNOUNCEMENTS

- Agric. Agent, Cooperative Ext. Service Univ. of Wisconsin, Madison, WI.
- Outdoor Adventures Program Assistant, apply in person in room 120 Fraser Hall.
- Crops and Soils Agent, Cooperative Ext. Service, Univ. of Wisconsin, Madison, WI.
- Research Specialist in Ag Weed Science, Dept. of Agronomy, Univ. of Illinois at Urbana-Champaign, Urbana, IL.
- Asst. Professor of Hort. and Forestry, North Dakota State Univ., Fargo, ND.
- Research Specialist, Univ. of Arkansas Division of Agriculture, Rice Research and Extension Center, Stuttgart, AR.
- Research Assistant, Soil Fertility, Univ. of Arkansas, Dept. of Agronomy, Fayetteville, AR.
- Superintendent, Univ. of Missouri's Southwest Research Ctr., Mt. Vernon, MO.
- Extension Coordinator, 4-H Youth Development Position, Univ. of Minn., St. Paul, MN.
- County Extension Agent, Univ. of Minn., Minn. Extension Service, Goodhue County, Red Wing, MN.
- Water Policy Fellowship, Minnesota Sea Grant Office, Univ. of Minn., St. Paul.
- Extension Coordinator, 4-H Youth Development, Univ. of Minn., Minn. Ext. Service, St. Paul, MN.



FAREWELL

Phil Bregitzer has received his Ph.D. in Plant Breeding and is moving to Aberdeen Idaho to work as a Research Geneticist in Barely at the National Small Grains Germplasm Research Facility. Also, Don Lee is taking over a teaching position at the University of Nebraska-Lincoln. Good Luck to both!!

WELCOME

Welcome Ken McNamara to the department, he is the new Coordinator for Sustainable Agriculture. Also, Georgia Yerk who is a Post-doc with Dr. Ron Phillips, and Weining Gu who is a technician working on Dr. Howard Rines project.

MOLECULAR GENETICS POSITION

Nevin Young has accepted the Molecular Genetics position in Plant Pathology.

FIELD DAYS

The Waseca Field Day is scheduled for Tuesday, June 27 and the Lamberton Field Day is scheduled for Wednesday, June 28.

John and Dave were hiking when they spotted a mountain lion staring at them. John froze in his tracks, but Dave sat down on a log, tore off his hiking boots, pulled a pair of running shoes from his backpack and hurriedly began to put them on.

"For crying out loud, you can't outrun a mountain lion!" John hissed.

"I don't have to," shrugged Dave. "I just have to outrun you."



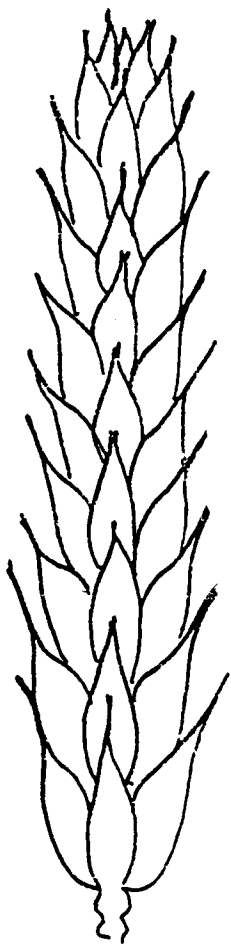
"Sorry I'm late. I cut myself shaving this morning."

A man felt he was entitled to a night out every week and he sold his wife on the idea. Every Tuesday he'd trot off by himself. One Tuesday he neglected to come home. He was gone six years. Suddenly, one Tuesday afternoon, he reappeared. His overjoyed wife began calling all their friends.

"What are you doing?" he asked.

"I'm getting up a little party to celebrate your return," she replied.

"What?" he roared indignantly, "on my night out?"



June 30, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics

NEW BABY

Sue and Doug Miller are the proud parents of a baby girl, Rebecca Lynne, born Tuesday, June 27. She weighed 7 lbs. 15 oz. Congratulations. Flowers were sent by the department.

FIELD DAY IN JACKSON

Mark your calendar. The Sister's of Mercy Farm, headed by Sister Esther Nickel, will hold a fall field day on September 16 at their farm near Jackson, Minnesota.

FIELD DAY IN GRAND RAPIDS

The Grand Rapids Field Day is set for Thursday, July 20. All faculty, graduate students, civil service and other guests are invited to attend the cookout and party on Wednesday evening, July 19 starting at 5:00 p.m.

AVIS GONE

Avis will be gone on vacation all next week. See her today if you need something.

PLANT MOLECULAR BIOLOGY DISCUSSION GROUP

Developmental expression of nodulins and nodule-enhanced polypeptides in alfalfa, Peggy Egli, Monday, July 10 at noon in 239 Gortner Labs.

CHAIR SEARCH IN FORESTRY RESOURCES

The Dept. of Forest Resources is interviewing four candidates for the F.B. Hubachek Chair in Forest Ecology. Everyone is welcome to attend the seminars as a part of the interview process. The first seminar is scheduled for Thursday, July 6 at 3:00 p.m. in 100 Natural Resources Admin. Bldg. Dr. Vogt is from Yale University.

AWARD WINNERS

Congratulations to Carroll Vance who has been selected to receive a 1989 CSSA Fellow. And to David Somers who has been selected to receive the Outstanding Young Crop Scientist Award. Both of them will receive these awards at the ASA meetings in Las Vegas, NV, on October 17, 1989.

NEW GRADUATE STUDENTS

We have several new graduate students in the Department:

Robert DeHaan is working toward a M.S. with Donald Wyse. Rob is from Hollandale, Minnesota. He received the B.S. from Dordt College in Sioux Center, Iowa. He has just finished a three-year position in Ogbomoso, Nigeria with Best Food Farms, Ltd. His office is 313 Agronomy.

Peter Dotray is working toward a Ph.D. with Donald Wyse. Pete received his B.S. in Agronomy from the U of M in 1986. He worked for Bob Andersen as an undergraduate several years ago. He recently received his M.S. in Agronomy from Washington State University. His office is 413 Agronomy.

Jonathan Fischer is working on his M.S. with Donald Rasmusson. Jon recently finished his B.S. in Biology at Bethel College. His office is 306 Agronomy.

Tom Fry is working toward a M.S. with Donald Wyse and Bev Durgan. Tom recently completed his B.S. in Plant Pathology. His office is 306 Agronomy.

Robert Murzyn received his B.S. in Integrated Pest Management from the Plant Pathology Department. He will be working toward the M.S. with Deon Stuthman. His office is 413 Agronomy.

David Robinson received his B.S. in Horticulture and his M.S. in Agronomy from the University of Arizona. He will be working toward the Ph.D. with Carroll Vance. His office is 200 Agronomy. Please welcome these new students to the department.

MONDAY IS NOT A HOLIDAY

Monday, July 3 is not a University holiday. If you plan to take off on this day you will have to use your vacation time. Tuesday, July 4 is a University holiday.

SILVIO VITERI IS LEAVING

Dr. Silvio Viteri, Post-doc with Don Barnes, has accepted a position in Honduras. Today is his last day. Good luck Silvio.

POSITION ANNOUNCEMENTS

- Res. Asst. Prof., Maize Genetics, Dept. of Agronomy, Univ. of Missouri-Columbia, Columbia, Missouri.
- Extension Assoc. in Pest Management-IPM Implementation Specialist, Cornell Univ., New York State, Geneva, NY.
- Res. Assoc./Asst. Prof. in Biochemistry, U of M, St. Paul.
- Manager for Animal Sciences Research Farm for Univ. of Illinois, Urbana, IL.
- Asst. Prof. in Plant Genetics, Dept. of Plant Science, University of Laval in Quebec, Canada.
- Assoc. Dean of Graduate School, U of M, Minneapolis.
- Asst. or Assoc. Extension Prof. of Agronomy (Forages), Univ. of Kentucky, Dept. of Agronomy, Lexington, KY.
- Assoc. Director, Ohio Ag. Res and Dev. Center, Ohio State Univ., Wooster, OH.
- One year Visiting Scientist position in environmental microbiology, Dept. of Soil Science, Oregon State Univ., Corvallis, OR.

agronomy gleanings

Department of Agronomy and Plant Genetics
University of Minnesota

July 14, 1989

NEW BABY BOY

Greg and Sue Holland are the proud parents of a new baby boy, Patrick John Holland, born Tuesday, July 11. He weighed 7 lbs. Congratulations. Flowers were sent by the department. Greg and Sue want to thank everyone for the lovely gloxina plant.

CROP SERVICE BUILDING CLEANUP

July 17th through 21st are going to be cleanup days for the Crop Service Building. Please check the dryers and drying racks in the east end of the building. Any samples not having a current "1989" date, and project name on them are going to be thrown out. I am going to be checking the dryers, racks and other storage on the 24th of July. Unless I am contacted before the 24th I will discard all samples not properly labelled.

Tom Warnke 624-3153

BIOLOGICAL SCIENCE ADDITION

The Physical Planning staff are now analyzing alternatives and preparing site development plans for the Biological Science addition. The \$18 million building will house about 22 comparative biology and ecology faculty. The main site being discussed is the Palmer Classroom building with pedestrian traffic connection corridors to CBS, Borlaug Hall, and McNeal Hall. If you have suggestions or concerns about this building site please pass them on to me or the St. Paul Campus Landscape Advisory Committee.

O.C. Burnside

PHILLIPS CREDIT CARDS

The new Phillips cards are in for your project vehicles. I need your old card before I can get a new one. The card you currently have is expired. Tom Warnke

CHECKING OUT DEPARTMENT CARS

When checking out cars please be more specific as to when you are going to have them back, then be on time and park them in the right lot. Cars are not to be kept overnight at your place of residence. If the office is closed put the keys in the mail slot by the mail boxes in the hall. Return keys promptly!

CONGRATULATIONS TO BOB BUSCH

Dr. Robert Busch was selected as a fellow to both ASA and CSSA for 1989. He will receive this award at the ASA meetings in Las Vegas, Nevada on October 17, 1989.

FAREWELL COFFEE FOR JIM BURTON

We will hold a farewell coffee for Jim Burton on Thursday, July 20 at 9:30 am in 306 Borlaug Hall.

THANK YOU NOTE

I want to express my appreciation to the staff of the department of Agronomy and Plant Genetics that make our field day events a big success. Certainly without the cooperation that we get from the department of agronomy, and the other departments on the St. Paul Campus, our field days would not be as successful as they are. Things went very smoothly at the field day and I felt we had one of our better field days in terms of program content and attendance for quite some time. Although it is difficult to put an exact figure on the number of people, our estimate was that we must have had somewhere between 1,100 and 1,200 people in attendance at this event.

Bill Lueschen

MISSING AIR COMPRESSOR

Has anyone seen a "Fini air" Pioneer air compressor, in the original box, stored anywhere in the department? It has black wheels, a red air tank, and a red handle and it looks like it is brand new. If you have seen this compressor anywhere please contact Keith Henjum or Gary Heichel at 5-7714 in 543 Borlaug Hall.

RETIREMENT RECEPTION

Wes Gray has retired from his position as a teacher at the West Central School of Agriculture and as a Horticulturist at the West Central Experiment Station. He will be honored at a reception on Saturday, July 15 from 1-5 in the Food Service Building of the U of M Morris campus.

PLANT BIOLOGY SYMPOSIUM

Mark your calendars. The Dept. of Plant Biology will hold a symposium on the "Future of Plant Biology: the Next 100 Years" on October 25-27, 1989 in the North Star Ballroom.

GRANT AWARDED TO VANCE

Congratulations to Dr. Carroll Vance who received a \$195,000 grant from the National Science Foundation to research the molecular control of ammonia assimilation in alfalfa root nodules.

FRENCH STUDENTS VISITING

We have two students from France visiting the department until September. Please welcome Jean Maisson and Phillippe Jaouen. Jean will be working with Deon Stuthman and Phillippe will be working with Steve Openshaw. They will be officed in 306 Agronomy.

NEW GRADUATE STUDENT

Please welcome Gary Muehlbauer to the Department. Gary will be working toward the Ph.D. in Plant Breeding with Dave Somers and Burle Gengenbach. He recently completed his M.S. at the University of Nebraska and his B.S. at Washington State University. His office will be 303 Agronomy.

NEW BABY

Denise and Steve Etraheim had a baby girl on Tuesday, July 11. They've named her Madeline Abbey. Denise used to work for Duane Smith on the alfalfa breeding project.

POSITION ANNOUNCEMENTS

- Agricultural agent in Door County in eastern Wisconsin, Cooperative Extension Service, Univ. of Wisconsin, Madison, WI.
- Program leader, Home Economics, Minn. Extension Service, U of M, St. Paul Campus.
- Postdoctoral associate, plant breeder, plant physiologist or microbiologist to work on a collaborative, USAID-funded program with INIAP in Quito, Ecuador. Contact Peter Graham in the Dept. of Soil Science for more details.
- Head, Dept. of Agronomy, Univ. of Illinois at Urbana-Champaign, IL.
- Specialist, Nursery-Ornamental Hort. and Landscape design. Univ. of Tennessee, Knoxville, TN.
- Asst. Prof. of Plant Breeding to work on cotton. Dept. of Agron and Hort, New Mexico State Univ., Las Cruces, NM.
- Assoc. instrumentation specialist/forage analyst, Cooperative Extension Service, U of Wisconsin, Madison, WI.
- Res. Associate/Post Doctoral Fellow - Soil Chemistry/Phycis, Montana State Univ., Bozeman, MT.
- Chair, Dept. of Environmental Biology, Univ. of Guelph, Ontario, Canada.
- Superintendent, Southern Experiment Station, Waseca, MN.
- Asst., Assoc. or Full Prof. of Horticulture, Tree Fruit Physiologist, Washington State Univ., Pullman, WA.

SPECIAL DISCUSSION

Dr. Gary Benzion will discuss "Patent examining in plant biotechnology" on Friday, July 14 at 1:00 p.m. in 306 Borlaug Hall. Gary Benzion received his Ph.D. from the U of M with Ron Phillips and is currently a Patent Examiner in the US Patent and Trademark Office.

RANGE NAMED FOR BEHRENS

A research range on the Agronomy farm of the Northwest Experiment Station will be named in honor of Professor Emeritus Richard Behrens on Tuesday, July 18 at 5:00 p.m. The dedication of this range is to mark the contributions Dr. Behrens has made to agriculture in northwest Minnesota as well as the state and nation.

Minw 9A0806

July 21, 1989

agronomy gleanings

Department of Agronomy and Plant Genetics



VISITING PROFESSOR

Dr. Kent Olson, Asst. Prof., Farm and Financial Management, Department of Agricultural and Applied Economics, will be spending the fall quarter in the Department of Agronomy and Plant Genetics. He will be working in the area of LISA (Low Input Sustainable Agriculture). His proposed arrival date is September 1. We should all make him feel welcome and get him involved in departmental activities and programs where feasible. His office will be 404 Borlaug Hall (625-8237).

THANK YOU NOTE

Thank you to the staff and faculty from the Agronomy Department who helped with the Summer Field Day at Morris.

We had almost perfect weather and nearly 600 visitors went on the various tours. The plots looked much better than last year in the drouth. Thanks again. We can't put on a good field day without substantial help from your department.
Dennis Warnes

NEW GRADUATE STUDENT

Please welcome Doug Davis to the Department. Doug will be working toward the M.S. degree with Howard Rines on the Oat Cellular and Molecular Genetics program. He has recently finished his B.S. at Oklahoma State University in Stillwater, OK. His office is 306 Agronomy.

NEW GRANDPARENTS

Kay and Delane Welsch are grandparents of a baby girl, 8 lbs. 12 oz. 21 inches long, born to their daughter Joanne in Washington, D.C.

CONGRATULATIONS TO CARROLL VANCE

Congratulations to Dr. Carroll Vance who was promoted to grade GM-15 on July 14 by USDA-ARS in recognition of his creative and high-impact research in host plant-Rhizobium interaction, as well as his high international scientific stature.

SA GRANT PROGRAM TAKING APPLICATIONS

Applications for grants to demonstrate sustainable agriculture projects are now available through the Minnesota Department of Agriculture. Grants to a maximum of \$25,000 will be awarded to projects with a potential to demonstrate agricultural practices that reduce chemical use, conserve energy, intensify crop rotations, improve livestock health or detail other profitable or environmentally-sound farming techniques. Farmers, non-profit organizations and educational institutions are invited to apply. Applications are being accepted now through November 15. All applications will be reviewed by an independent panel of farmers and agricultural specialists. Grant awards will be finalized in January. For more information or to obtain an application, contact the Energy and Sustainable Agriculture Project, Minnesota Department of Agriculture, 90 West Plato Blvd., St. Paul, MN 55107, or call (612) 296-7673.

SEMINAR

Forest Resources Seminar on "Forest Decline and Effects of Acid Rain," by Dr. Ernst-Detlef Schulze, Professor, Univ. of Bayreuth, Bayreuth, Germany. He is a candidate for the F.B. Hubachek, Sr., Endowed Chair position in Forestry. Monday, July 31, 1989 at 3:00 p.m. in 100 Natural Resources Admin. Bldg.

NEW BABY

Ingrid and Jeff Remick had a baby boy on Saturday, July 8. He weighed 8 lbs. 7 1/2 oz. and was 21 inches long. They have named their new son, Ryan Hammes. Congratulations. Flowers were sent by the Department.

POSITION ANNOUNCEMENTS

- Resident Director, Baton Rouge Station, Louisiana Ag. Exp. Station.
- Several volunteer positions with the City of St. Paul for such things as: Referee/Coach for adult or youth touch football, tackle football, soccer, or instructors for dance, crafts, etc. Call Volunteer Services at 292-7430.
- Part-time biology teacher needed at Anoka-Ramsey Community College to teach General Biology, Intro. to Anatomy and Physiology, Pathophysiology, Microbiology. Contact Dr. Davidsen at 427-2600.
- Soil Scientist/Microbiologist, USDA-ARS, Crop Protection Research at Urbana, IL, Univ. of Illinois.
- Assistant Agronomist, North Central Research Center, Minot, ND. (M.S. required).
- Asst./Assoc. Prof. in Peanut Breeding, Dept. of Crop Science, NCSU, Raleigh, NC.
- Asst. Prof., Applied Crop Molecular Genetics, Dept. of Crop Science, NCSU, Raleigh, NC.
- Asst. Prof. of Plant Breeding-Alfalfa, Dept. of Agron. and Hort., New Mexico State University, Las Cruces, NM.
- Two positions: Senior Potato Agronomist, and Associate Scientist - Plant Breeder (Corn) (B.S./M.S.), ESCA Genetics Corp. and Pioneer Hi-Bred, biotech company in San Carlos, CA.
- Research Technician, Pioneer Hi-Bred Int'l., Wilmar, MN.
- Agronomy Regulator Specialist (Agricultural Chemicals), Dept. of Ag. St. Paul.
- Farm Advisor-Soil and Water/Subtropical Horticulture, Ventura and Santa Barbara Counties, Univ. of California, Oakland, CA.

agronomy gleanings

Department of Agronomy and Plant Genetics
University of Minnesota

July 28, 1989

NEW BOOKS IN LIBRARY

"An Introduction to the Physiology of Crop Yield", (1989) by Robert Hay and Andrew Walker has been added to the departmental library.

MISSING JOURNALS

The following journals are missing from the Agronomy Library: Weed Science, Vol 36, (January, May 1988). Plant Physiology, Vol. 88 (October 1988). Agronomy Journal, Vol. 80 (Nov.-Dec., 1988). If you have any of these volumes, please return it to Pat Kessler (Rm 302 Agronomy). We need these volumes so that we can send the journals to the bindery.

FIELD DAY NEAR LA CRESCENT

A field day on controlled grazing will be held at Ken Tschumper's Dairy farm west of La Crescent on Saturday, August 5, 1-3 p.m. This will be a look at different methods of intensive rotational grazing, low-cost foraging and improved productivity with low-cost fencing techniques. Program includes speakers and refreshments. This is a project of the Minnesota Sustainable Agriculture Grant Program; Co-sponsored by the Land Stewardship Project.

ROSEMOUNT VIP PICNIC

The Ag. Experiment Station-Rosemount is planning a picnic for campus personnel who have little opportunity to visit the station in order to acquaint them with the operations of the station. This picnic is planned for Thursday, August 10 starting at 4:00 p.m. The program will include a hayride tour, barbeque chicken, sweet corn, etc. A charge of \$3 will help cover costs. Send reservations by August 7 to Kathy Donahue, 220 Coffey Hall. Call Kathy at 625-4211 or Karen Schuller 423-2455 if you have questions.

POSITION ANNOUNCEMENTS

- Department Head and Professor of Horticulture, U of M, St. Paul, MN.
- Regional Extension Director and Center Head of the Western Maryland Research and Education Center, Keedysville, Md.
- Head of Seed Certification Department Regulatory and Public Service Programs, Clemson University, Clemson, SC.
- County Director/Advisor, Shasta County, Univ. of California, Oakland, CA.
- Cargill Hybrid Seeds has an immediate need for two regional agronomy services managers, located in the central and western corn belt. Qualified candidates will hold a Ph.D., have three years field experience, and be willing to travel up to 50% of time. Contact Cargill Hybrid Seeds, Minneapolis, MN.
- Agricultural Agent, Iowa County, Univ. of Wisconsin, Madison, WI.
- Seed Certification Manager, Montana Seed Growers Association/Montana Agric. Exp. Sta., Bozeman, MT.
- Research Associate position at the USDA, ARS, Natl. Peanut Research Lab, Dawson, GA

GORDON MARTEN IN PEORIA 7/24-11-20

Dr. Gordon Marten has been asked to serve as the Acting Associate Director for the Midwest Area of USDA-ARS in Peoria, Illinois starting July 24 and lasting through November 20, 1989. Gary Heichel will serve as Acting Research Leader for the Plant Science Research Unit and Craig Sheaffer will oversee the field and lab research program during Dr. Marten's absence.

SPECIAL SEMINAR

"Forestry in Australia", Dr. Ken Old, CSIRO Division of Forestry and Forest Products Canberra, Australia, on Monday, August 14 at 2:00 pm in 100 Natural Resources Admin. Building.

GOALS FOR STRENGTHENING THE U

President Nils Hasselmo has proposed the following four University-goals for strengthening excellence through diversity:

1. To improve the retention of students of color by 50% of the current base by 1994.
2. To double the hiring of faculty of color by 1994 by applying the Search Guidelines to attract faculty of color in all departmental searches.
3. To increase the enrollment of students of color to 10% of total University enrollment by 1994.
4. To improve and strengthen the University's ongoing and new efforts to make diversity integral to our academic priorities.

STATISTICAL CLINIC

The School of Statistics has a statistical clinic open this summer in 133 Classroom-Office Building on the St. Paul Campus, from 9:30 am to 2:30 pm on Monday, Tuesday, Wednesday, and Thursday (closed Friday) from August 28 to September 21. Stop by or phone for an appointment at 625-3121.



agronomy gleanings

Department of Agronomy and Plant Genetics
University of Minnesota

August 4, 1989



AGRONOMY CORN FEED

Mark your calendar! The Annual Agronomy Corn Feed will be next Thursday, August 10 at noon in 306 Borlaug Hall. The cost is \$2.00 for two hotdogs, and as much corn as you care to eat. Coffee and lemonade will be served and also cucumbers and tomatoes. Please pass the word to all Agronomy personnel. If you have any home grown tomatoes or cucumbers from your garden please bring them in to 411 Borlaug Hall on Wednesday.

DR. LAMBERT HOSPITALIZED

Dr. Jean Lambert was hospitalized last week. Flowers were sent by the department.

THIEVES ON CAMPUS

Lock up your personal belongings. Some wallets have been stolen from people in the Crops Research Building and in the Weed Research Lab and Greenhouse areas lately. One person's wallet was taken out of their jacket pocket while they were in the next room. So lock up!

1989-90 ST. PAUL PHONE BOOKS

New St. Paul phone books for 1989-90 are available at the loading dock in Soil Science. Recycle your old phone books by bringing them to the same place you pick-up you new one. Please do this exchange by 8:00 a.m., Wednesday, August 9.

SPECIAL PLANT BIOLOGY SEMINAR

Plant Biology Seminar on Wednesday, August 9 at 9:00 a.m. in Rm 18 Bio Sci Ctr. by Chunsheng Luo, "The effect of cutting and nutrient availability on the growth of *Typha* Spp."

You know it's going to be a bad day when your teenager knocks on your bedroom door and says, "Today is Nerd Day at school, Pop. Can I borrow some of your clothes?"

GREETINGS FROM CHARLOTTE EBERLEIN

Charlotte Eberlein sends greetings from Idaho to everyone in Agronomy. "We spent four days rafting in Hell's Canyon last week - fantastic scenery, exciting rapids, and excellent trout fishing. Also, two rattlesnakes but they were small. We're still thoroughly enjoying Idaho and are looking forward to some short hiking trips in the mountains in August. Chris and Bill are good for 2 to 3 miles or until the M & Ms are gone, and Sara is content to ride in the backpack, so we're going to spend a week at a mountain cabin and hike as much as the kids want."

ROSEMOUNT VIP PICNIC

The Ag. Experiment Station-Rosemount is planning a picnic for campus personnel who have little opportunity to visit the station in order to acquaint them with the operations of the station. This picnic is planned for Thursday, August 10 starting at 4:00 p.m. The program will include a hayride tour, barbeque chicken, sweet corn, etc. A charge of \$3 will help cover costs. Send reservations by August 7 to Kathy Donahue, 220 Coffey Hall. Call Kathy at 625-4211 or Karen Schuller 423-2455 if you have questions.

SEMINARS

Soil Science Seminar on Tuesday, August 8 at 3:00 p.m. in 375 Borlaug Hall, by Dr. William E. Fenster, (Title to be announced). Dr. Fenster has been involved in ag. development in Uganda and is returning to the USA for a short visit.

NEW CIVIL SERVICE MEMBER

Please welcome a new person to our department. Bradley Larson has joined the Corn Breeding Project, as a Senior Research Plot Technician.

DISQUIETING

A mosquito is like a small boy. The minute he stops making a noise, you know he's into something.

CONGRATULATIONS TO DON BARNES

The Genetics and Plant Breeding Award of the National Council of Commercial Plant Breeders was presented to Donald Barnes during the recent Central Alfalfa Improvement Conference held at Madison, WI. The award was in recognition of his contributions to agriculture through genetics and plant breeding.

THANK YOU

Thank you so much for the beautiful plant sent by the department on the occasion of our son, Ryan's, birth. We are enjoying it still and appreciate your thoughtfulness. We are all doing fine and plan to stop in for a visit very soon. Thanks again.

Ingrid, Jeff and Ryan Remick

FAREWELL COFFEE FOR JOHN DEAN

We will hold a farewell coffee for John Dean on Thursday, August 10 at 9:30 am in 306 Borlaug Hall. John is moving to Chicago.

THANK YOU

Thank you to the Agronomy staff members who assisted with our annual field day at Grand Rapids. Thanks to them our field day was a useful and interesting experience for our farmers and visitors. We all appreciate the enthusiastic and professional manner in which the staff meet and assist our visitors. After a long hard winter it was good to hear some positive comments about the University and its staff. Thanks again for a job well done. Dave Rabas

POSITION ANNOUNCEMENTS

- Post-doctoral Associate, Soil Physics/ Micro-Meteorology, Agron. Dept., Georgia Ag. Exp. Sta., Griffin, GA.
- Program Coordinator, Conservation Tillage Expert Team, Michigan Energy Conservation Program, Michigan State University, East Lansing, MI.
- Res. Assoc., Molecular Biology of Sorghum Mitochondria, Univ. of Florida, Gainesville, FL.

Sally Forth / By Greg Howard



Agronomy Gleanings

August 11, 1989



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

SUE NIELSEN WILL BE ON LEAVE

Sue Nielsen will be on a 6-month maternity leave. Her baby is due August 26th. Sue is planning to work until the baby's arrival. Gregg Pioske will be filling in part time until school starts and Larry Jelinski will be working part time during fall quarter. Gregg and Larry will be doing the watering and filling soil carts. If you have any problems or questions about the operation of your greenhouse you can call Tom Warnke.

PLANT BREEDING TOUR

Plant Breeding Graduate Students there are only a couple of spaces left for our tour to the Northwest (Fargo), August 22, 23, 24. Please see me or Muriel Mapes as soon as possible to reserve your place.
Deon Stuthman

NEW CITIZEN IN OUR MIDST

Susan Tse, temporary junior scientist with Dave Somers, was sworn in as a U.S. citizen on August 9, 1989. She came to the U.S. from China nine years ago. Congratulations.

ANOTHER SUCCESSFUL CORN FEED

Thursday, August 10, was our Annual Corn Feed and it was another successful event with 110 persons being served. We want to thank the corn crew for the sweetcorn, many donors of tomatoes and cucumbers, and our office staff who did an outstanding job getting things ready and putting on the lunch. Our sincere thanks to all that were involved.
Orvin Burnside

VISIT WITH ROD AND HELEN BRIGGS

During a short visit to Madison, WI, I visited with Rod and Helen Briggs (for new members of the department, Rod was on our faculty some years ago). Rod has suffered an attack of cancer (clear for six years now) and a broken leg. But now he says he is good, and he appears healthy. We did have a good visit. Laddie Elling

PATRICK HAYES HONORED

Patrick Hayes was chosen by students as a Crop Science Outstanding Teacher of the Year. Patrick is an assistant professor at Oregon State University. He received his Ph.D. with Robert Stucker in 1986.

AGRONOMY PICNIC AT ROSEMOUNT

Dave Sandstrom at the Rosemount Experiment Station is planning a picnic for people from Agronomy at the Rosemount Experiment Station on Wednesday, August 23 starting at 5:30 p.m. Dave will prepare barbecued chicken, sweet corn and home made root beer and everyone should bring a dish to share. Also, a hayride is scheduled for after dinner. The cost for the picnic is \$3.00 adults and \$1.50 kids. Contact Lynne Medgaarden or Jim Halgerson by Monday, August 21 if you would like to come along.

CAR FOR SALE

1981 Ford Mustang (Ghia, Hatch back) with 83,000 miles, 4-speed manual, no rust. Price - \$2,000 or best offer. Contact Jayanti Suresh at work 625-1208 or home 483-2828.

FUME HOODS AND EXHAUST FANS

On Aug. 10 through Aug. 17 all fume hoods and exhaust fans in Borlaug Hall will be shut down for 15 minutes each for servicing. If for any reason any one fan can not be stopped at this time, please notify Gene Connelly at 624-6276.

THANK YOU NOT FROM OUSSIBLE

I would like to inform you that the corneal transplant surgery I had on the 21st of July 1989 was successful; my vision improved significantly. Two weeks after the surgery Dr. Doughman has been very pleased with the results. Thanks to God. I and my family are thanking you all very much for your friendship, support and help.

Mohamed Oussible

NEW BABY

Jeff and Karla Gunsolus are the proud parents of a new baby boy. Ian Lyle was born on Sunday, August 6 at 8:28 am. He weighed 7 lbs 12 oz and was 20 inches long. Parents and baby are doing well. A U of M sweatshirt was given to Ian from the Departmental Flower and Gift fund. Congratulations.

POSITION ANNOUNCEMENTS

- Postdoctoral Fellowship (Farm Management) to study viability of alternative farm production systems. Lincoln University College in New Zealand.
- Assistant Director - 4-H Youth Development Minnesota Extension Service, U of M St. Paul.
- Asst. Prof of Vegetable Physiology, Dept. of Hort. Sci., Cornell Univ., Geneva, NY.
- Asst. Prof., Developmental or Evolutionary Plant Biology, U of M, Dept. of Plant Biol., St. Paul.
- Asst. or Assoc. Prof., Turfgrass Physiol. and Management, Dept. of Horticulture, U of Nebraska-Lincoln.
- Asst. or Assoc. Prof. of Ornamental Horticulture and Program Leader for Commercial Ornamental Horticulture Interdepartmental Program, Cornell University, New York State College, Ithaca, NY.
- Farm Advisor-Urban Environmental Toxicology San Diego County, U of California, Oakland, CA.
- Postdoctoral Research Associate, Texas Agricultural Experiment Station, Texas A&M, Corpus Christi, TX.
- Asst. Prof, Applied Crop Molecular Genetics, North Carolina State Univ., Raleigh, NC.
- Resident Director, Eastern Arkansas Soil Testing Lab, Marianna, Arkansas.

PH.D. THESIS DEFENSE

Chris Boerboom will defend his Ph.D. Thesis on Friday, August 18 at 9:00 a.m. in 306 Borlaug Hall, "Selection and Characterization of Glyphosate Tolerance in Birdsfoot Trefoil (Lotus corniculatus)"

CANDIDATES FOR WEED ECOLOGIST

Four candidates for the Weed Ecologist position are scheduled for interviews during August and September. Mark the following dates on your calendar.

August 22 and 23 - Dr. Jacob Weiner Seminar at 9:30 a.m. on Aug. 22 on "Size Variability and Competition in Plant Populations" in 306 Borlaug Hall.

August 24 and 25 - Dr. Paul Barnes Seminar at 9:30 a.m. on Aug. 24 in 306 Borlaug Hall.

August 28 and 29 - Dr. Mary Lynn Roush Seminar at 9:30 a.m. on Aug. 28 in 306 Borlaug Hall.

Sept. 7 and 8 - Bruce Maxwell Seminar at 9:30 a.m. on Sept. 7 in 306 Borlaug Hall.

If you would like to see the curriculum vitae for any of these candidates please check with Avis in 411 Borlaug Hall.

Agronomy Gleanings

August 25, 1989

MIW
9/9/89



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

DEATH

Leon Snyder, a former Agronomy faculty member, passed away on Thursday, August 24, 1989. Reception at 12:30 p.m. followed by a memorial service at 1:00 p.m. on Monday, August 28 at the Mueller-Bies Funeral Home, North Chapel, 2130 N. Dale (at County Road B and Dale). Friends are invited to the Snyder home, 1391 Raymond Avenue, after the service to visit with family, friends and colleagues. Dr. Snyder was a faculty member in the Genetics Department after leaving Agronomy.

NEW RECEPTIONIST

Rebecca Webb has taken over the position as receptionist in the Main Office (411 Borlaug Hall) of Agronomy. She recently moved to Minnesota from Utah. Please welcome her to the department.

NEW GRADUATE STUDENTS

Please welcome **Kim Evenson** to our department. Kim will be working on a Ph.D. in Plant Physiology with Donald Wyse and John Gronwald. She received her M.S. from North Dakota State Univ. in 1986 and has been working as a technician in the Agronomy Dept at NDSU.

Please welcome **Lauren Johnson** to our department. Lauren will be working on a Ph.D. with Donald Barnes. He recently finished his M.S. at New Mexico State University. He is also a recipient of a Graduate School Fellowship.

Please welcome **Elizabeth Hill** to our department. Elizabeth will be working toward the M.S. in Plant Breeding with Deon Stuthman. She recently completed her B.S. at the U of Wisconsin in LaCrosse.

Please welcome **Bill Rooney** to our department. Bill will be working on a Ph.D. with Howard Rines. Bill recently completed his M.S. at Texas A&M University.

PROTECTING INTELLECTUAL PROPERTY

A workshop on "Protecting Intellectual Property in an Academic Environment: Individual Rights and Public Interest" is scheduled for October 2, 1989 at the Earle Brown Center. All faculty, graduate students, post-docs, and research associates are invited to attend.

THANK YOU NOTE

To everyone in the Agronomy Department - Thanks so much for the beautiful roses and for the Minnesota outfit for Ian. He will fit right in at his first sporting event! We appreciate your thoughtfulness. Thanks again for the lovely gifts. We'll come in for a visit soon. Jeff, Karla and Ian Gunsolus

AGRONOMY PICNIC AT ROSEMOUNT

The Agronomy Picnic at Rosemount was a great success thanks to the efforts of Dave Sandstrom. We had over 40 people in attendance. The food was great and the weather was beautiful. Dave called today and said they found a key on a shoestring laying on the ground after the picnic. If anyone has lost such a key please see Lynne in 411 Borlaug Hall.

CAR FOR SALE

1981 Ford Mustang (Ghia, Hatch back) with 83,000 miles, 4-speed manual, no rust. Price - \$2,000 or best offer. Contact Jayanti Suresh at home 483-2828.

ROOMMATE AT ASA MEETINGS

Gary Pomeranke is looking for someone to room with in Las Vegas during the ASA meetings. Please leave a note in his mailbox if you are interested and he'll get back to you when he gets back from "vacation" on September 11.

GETTING MARRIED

Gary Pomeranke and Martha Smart are getting married this weekend. Congratulations to them both.

MISSING JOURNALS

We are still missing Plant Physiology, Vol. 88 (October 1988) and Agronomy Journal Vol. 80 (Nov.-Dec. 1988). Please check to see if you have these volumes. Turn in the journals to Pat Kessler (Rm 302 Agron). We need these volumes so we can send the journals to the bindery.

POSITION ANNOUNCEMENTS

- Research Assistant, Corn Research Station DeKalb-Pfizer Genetics, Madison, WI.
- Assistant Professor, Weed Science, Georgia Ag. Experiment Station, Coastal Plain Station, Tifton, GA.
- Asst. Prof., Kansas Ag. Experiment Station, near Scandia, KS. Kansas State Univ., Manhattan, KS.
- Soil and Water Conservation Specialist, Asst. Prof., Kansas State Univ., Crop, Soil and Range Sciences, Manhattan, KS.
- Greenhouse Manager, Univ. of Nebraska, Dept. of Agronomy, Lincoln, NE.
- Extension Weed Specialist, North Dakota State University, Fargo, ND.
- Research Scientist Soil/Water Management, NDSU Carrington Research Extension Center, Carrington, ND.
- Soil microbiologist/soil biochemist, Univ. of Kentucky, Lexington, KY.
- Asst. Prof., Developmental or evolutionary Plant Biology, U of M, Dept. of Plant Biology.

PH.D. THESIS DEFENSE

Ginger Peschke will give her Ph.D. thesis defense on Friday, September 15 at 9:00 a.m. in 306 Borlaug Hall, "Tissue culture induced variability in maize: genetic and molecular analysis of tissue culture-derived transposable elements."

FAREWELL COFFEE

We will hold a farewell coffee for Ginger Peschke at 3:00 p.m. in 306 Borlaug Hall on Friday, September 15.

CLASS SCHEDULE CHANGES

We have received copies of changes to the Fall Quarter 1989 Class Schedule. You may pick this up in 411 Borlaug Hall.

CANDIDATES FOR WEED ECOLOGIST

Two more candidates for the Weed Ecologist position are scheduled for interviews during August and September. Mark the following dates on your calendar.

August 28 and 29 - Dr. Mary Lynn Roush Seminar at 9:30 a.m. on Aug. 28 in 306 Borlaug Hall. Graduate Student discussion at 1:00 p.m. on August 29 in 306 Borlaug.

Sept. 7 and 8 - Bruce Maxwell Seminar at 9:30 a.m. on Sept. 7 in 306 Borlaug Hall. Graduate Student discussion at 1:00 p.m. on September 8 in 306 Borlaug.

If you would like to see the curriculum vitae for any of these candidates please check with Avis in 411 Borlaug Hall.

Publications by the candidates have been placed in the Agronomy Library

DISCUSSION WITH BOSCHWITZ & PENNY

U.S. Senator Rudy Boschwitz and U.S. Representative Tim Penny will discuss "Setting a Course for the 21st Century: The 1990 Farm Bill" on Sunday, September 24 at 7:00 p.m. in the North Star Ballroom of the Student Center. A reception will begin at 5:30 p.m.

NEW BABY

Jayanti and Raja Suresh are the proud parents of a baby girl, born at 1:00 a.m. on August 25. The new baby weighed over 7 lbs. A University of Minnesota sweatshirt was given by the flower and gift committee

Agronomy Gleanings

September 8, 1989

M.W. Ag 863



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota. St. Paul

NEW BABY

Sue and Allan Nielsen are the parents of a new baby boy, William Iver. He was born Sunday, September 3 and weighed 8 lbs. 9 oz. A U of M sweatshirt was given by the Flower and Gift Committee.

THANK YOU NOTE

Delores and I want to thank all of you for the beautiful floral arrangement sent to my mother's funeral. It was deeply appreciated. Mother lived to be 93 and was active up until she passed away in her sleep.

Delores now receives intravenous chemotherapy five days each month. So far it has caused her only minor side effects.
Orvin Burnside

NEW OFFICE HOURS

The Office of International Programs in 293-299 Coffey Hall and in 320 VoTech will have new office hours starting Sept. 18, 7:45 to 11:45 a.m. and 1:15 to 4:30 p.m. The office will be closed to walk-in traffic from 11:45 to 1:15 but phones will be answered.

NEW GRADUATE STUDENT

Please welcome **Mike Davis** to the department. Mike will be working toward the Ph.D. with Steve Simmons. He is currently finishing his M.S. with Dr. Wetmore in Botany at the U of M.

FIELD DAY-SISTER'S OF MERCY FARM

The Sister's of Mercy farm near Jackson, Minnesota will hold a fall field day on Saturday, September 16 from 1 to 5 p.m. The farm features sustainable ag. alternative methods of weed control in corn. They will also hold a hog roast. Everyone is welcome - Ask for Sister Esther. Jeff Gunsolus will be attending. If you want directions to the farm please see Lynne in 411 Borlaug Hall.

COMMUNITY FUND CAMPAIGN

There will be a mini-fair (with popcorn, soda, and balloons) on the St. Paul Campus in front of Coffey Hall on Friday, September 29, 1989 from 12:30 - 3:00 p.m. This mini-fair is to kick-off the University Community Fund Campaign. Giving is easier if you know about who and where your money is going so plan on attending the mini-fair and familiarizing yourself with the following agencies: United Way of Minneapolis and St. Paul, Cooperating Fund Drive, United Arts, Open Your Heart to the Hungry and Homeless, Combined Health Appeal. Avis will be the campaign coordinator for the Department of Agronomy and several individuals will be asked to help her with the campaign.

THANK YOU FROM DR. LAMBERT

A very sincere thank you to the Department for the beautiful plant when I was in the hospital and for the many cards and kind wishes from many individuals. I am glad to be back in circulation and hope to see you often. There is no "family" quite like our Agronomy family.

Jean Lambert

TRAINING FOR TEACHING ASSISTANTS

Two sessions on "Survival Skills for Graduate Teaching Assistants" will be offered this fall by the Office of Academic Affairs. These sessions are free and are offered on the St. Paul Campus. These workshops are for Graduate Teaching Assistants and are taught by experienced Teaching Assistants. If you are planning to be a teaching assistant at any time this year you may want to attend one or both of these sessions. Call 625-1612 to register for a session.

Part 1: Mon 9/18 2-4 in 110 Student Ctr.
Wed 9/20 10-12 in 110 Student Ctr.
Part 2: Wed 10/4 10-12 in 110 Student Ctr.
Thurs 10/5 2-4 in 110 Student Ctr.

EXTRA ANTI-STATIC MAT

We have an extra anti-static mat in the main office. If you would like to have it please see Avis.

FALL SEMINARS ARE APPROACHING

The coordinators for the seminars this fall are Nancy Ehlke for Plant Breeding and Dan Putnam for Agronomy. They are starting to plan this year's seminar schedule. If you would like to present a seminar please contact either of them.

POSITION ANNOUNCEMENTS

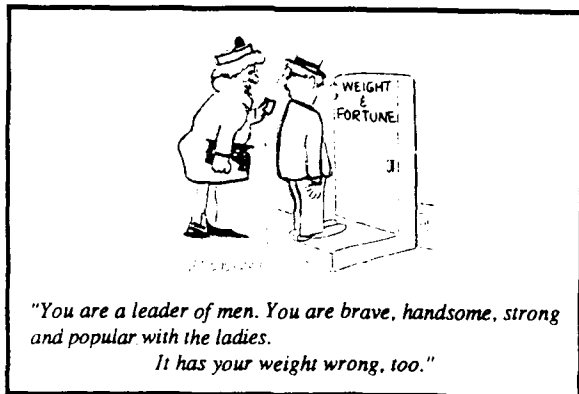
- Chairperson, Dept. of Horticulture, Washington State University, Pullman, WA.
- Development Officer for Continuing Education and Extension at the U of M.
- Farm Advisor-Field and Vegetable Crops for the Univ. of California in Sacramento County, CA.
- Asst. or Assoc. Prof. in Dryland Cropping Systems, Univ. of Nebraska-Lincoln, NE.
- Research Specialist I for plant molecular biology experiments (B.S. or M.S.), North Dakota State Univ., Dept. of Crop and Weed Sciences, Fargo, ND.
- Farm Advisor-Urban Environmental Toxicology Univ. of California in San Diego County, CA.
- Postdoctoral positions in Plant Molecular Biology, Dept. of Cellular and Molecular Biology, Univ. of Auckland, New Zealand.

PH.D. THESIS DEFENSE

Ginger Peschke will give her Ph.D. thesis defense on Friday, September 15 at 9:00 a.m. in 408 Agronomy, "Tissue culture induced variability in maize: genetic and molecular analysis of tissue culture-derived transposable elements."

FAREWELL COFFEE

We will hold a farewell coffee for Ginger Peschke at 3:00 p.m. in 306 Borlaug Hall on Friday, September 15.



ANNUAL AGRONOMY PICNIC

Each year the Department of Agronomy holds a picnic on a Sunday in the fall. This year's picnic is planned for Sunday, Sept. 17 at Central Park in Roseville. Everyone from the department is welcome to attend. The Social Committee roasts turkeys on the grill and everyone brings a dish to share. The cost is \$3 for adults and \$1.50 for children under 12 and over 6. Please plan to attend this picnic, it is a great opportunity to meet and socialize with other people in the department. Make reservations with Muriel Mapes in 411 Borlaug Hall by September 13.

NEW GRAD STUDENT ORIENTATION

The Grad Club will hold an orientation session for all new graduate students in the department on Friday, September 15 in 306 Borlaug Hall at 8:15 a.m. New students should plan to attend.

All grad students and faculty are invited to attend a welcome coffee with the new students at 9:30 a.m. in 306 Borlaug.

ACADEMIC STAFF TUITION BENEFITS

Faculty/professional/administrative employees holding 75% time or more appointments may register tuition-free in credit-bearing University courses for which they are eligible for admission and in which space is available, with the approval of the department head. If you are interested complete the Academic Staff Tuition Benefit Certification form (A46-otr) for each course you wish to take.

GEN. AND PL. BREEDING SYMPOSIUM

Genotype-by-Environment Interaction and Plant Breeding symposium, sponsored by Louisiana State University Ag. Center; Asgrow Seed Co., Pioneer Hi-Bred International and the U.S. Sugarcane Field Lab. will be held on February 12 and 13, 1990 at Louisiana State University. Volunteer poster paper abstracts (up to 500 words) are being solicited for consideration. Invited international speakers will address important issues relative to genotype-by-environment interaction and stability analyses in plant breeding. Check the bulletin board for registration information.

Agronomy Gleanings

September 15, 1989

MW
9Ag86a



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota. St. Paul

MISSING EQUIPMENT

An aeration system for growing plants hydroponically is missing from growth chamber #32. We are missing 3 aquarium pumps, 5 manifold assemblies for aeration lines and extension cords. Please contact John Gronwald if you know where this equipment is located.

YARD SALE

Dr. Burnham is having a Yard Sale at his house, 1539 Branston Street in St. Anthony Park on Saturday and Sunday from 9:00 to 5:00, September 16 and 17. The sale will feature furniture, old jars, books, dishes, blankets, fishing tackle and more.

THANK YOU NOTE

Dear Friends at the Agronomy Department, Thanks for the beautiful jogging suit that you all sent us for our daughter, Maya. She will enjoy wearing it this winter. We all appreciate your thoughtfulness. Hope to see you all soon.

Jayanti and Raja Suresh

ITEMS FOR SALE

- One 14-foot fishing boat with trailer (aluminum), 3 bench seats, wide beam boat for \$600.
- 1980 Chevy Citation automobile, 4-door, 94,000+ miles, Air conditioning for \$800 or best offer. Contact Mark Matteson at 625-5277 or 489-1610 for more information.

NEW GRADUATE STUDENT

Please welcome **Azzedine Douiyssi** to the department. Azzedine will be working toward the Ph.D. with Don Rasmusson. He has recently moved here from Morocco. He will be officed in 303 Agronomy.

NEW ADDRESS

Please note Gibco BRL has a new address to use when placing orders for products:

Gibco BRL
3175 Staley
Grand Island, NY 14072

MINI-FAIR CANCELLED

The Community Campaign Mini-fair on the St. Paul Campus scheduled for 12:30-3:00 on Friday, September 29 has been cancelled.

NEW BABY

Patrick and Rebecca Hayes had a new baby girl on July 28th. Pat was a grad student with Bob Stucker and Rebecca worked with Neal Martin. They currently live in Oregon.

CONGRATULATIONS

John W. Gronwald, received a Certificate of Merit and a cash award from the USDA-ARS for his participation in a patent application for the "invention" of herbicide tolerant corn. The Farm Journal recently provided coverage of this research.

NEW HEAD OF AGRONOMY AT WISCONSIN

The Department of Agronomy at the Univ. of Wisconsin has a new department head, Dr. Ronald E. Doersch has taken over from Dr. Robert A. Forsberg.

RECYCLING PROGRAM

Congratulations to all who have been using the Recycling Program service. From July 1988 to June 1989 you diverted a total of 7.2 tons from the University's waste system. That translates to approximately 122 trees. If you would like to order a cardboard desk-top recycling tray contact Rebecca Webb in 411 Borlaug Hall. There are several paper recycling barrels in Borlaug Hall and they plan to also add an aluminum recycling barrel on the fifth floor. Use the recycling service as much as possible. If you have questions about the recycling program call 5-8084.

David Ware, Recycling Program Coordinator

POSITION ANNOUNCEMENTS

- Ag. Research Advisor for USAID/Honduras.
- USDA Patent Advisor (General), Peoria, Illinois.
- Farm Advisor-Field and Vegetable Crops, Sacramento County, California.

AG-CITEMENT DAY

On October 28th, the U of M Men's Athletic Dept. in conjunction with the U of M College of Agriculture and the Minnesota Agri-Growth Council present Minnesota Ag-Citement Day, which includes an in-depth look at the new curriculum in the COA, lunch, U of M Band, Cheerleaders and Mascot, football game between U of M and Ohio State. Price is \$20.00 which include lunch and football game and bus to and from game. Check the bulletin board for more information.

ANNUAL AGRONOMY PICNIC

Each year the Department of Agronomy holds a picnic on a Sunday in the fall. This year's picnic is planned for Sunday, Sept. 17 at Central Park in Roseville. Everyone from the department is welcome to attend. The Social Committee roasts turkeys on the grill and everyone brings a dish to share. The cost is \$3 for adults and \$1.50 for children under 12 and over 6. Please plan to attend this picnic, it is a great opportunity to meet and socialize with other people in the department. Make reservations with Muriel Mapes in 411 Borlaug Hall today.

NEWSLETTER FOR ALTERNATIVE CROPS

The first issue of "BioOptions", the newsletter of the Center for Alternative Plant and Animal Products, is being distributed to all faculty in the COA. Future issues will be sent to U of M faculty and staff at no cost, but the subscription form must be returned to get on the mailing list for "BioOptions". Call Laura McCann at 625-5747 if you have any questions.

VIDEO ON MAKING GOOD POSTERS

Need information on how to make a good poster? A 1-hour videotape of last year's "Poster Preparation Workshop" is available from Teresa Schoeder in 209 Borlaug Hall. Call here to check it out overnight or to arrange a viewing. Some information is also in the "Professional Skills" binder in the Agronomy library.

GRANT ANNOUNCEMENTS

Faculty - Watch the bulletin board for notices of new grants being offered or check with Avis.

- FIPSE: Comprehensive Program. The Fund for the Improvement of Post-secondary Education has announced its 1990 general competition for new awards to increase access to and strengthen higher education. Deadline Oct. 17 for preapplications; March 2 for invited final applications. 70 awards ranging from \$5,000 to \$200,000.

- National Science Foundation: Postdoctoral Fellowships and Prof. Development Awards in Science, Technology and Society. Deadline November 15, 1989.

- Patricia Roberts Harris Graduate and Professional Study Program.

- US Department of Education: Grants to Institutions to Encourage Minority Participation in Graduate Education Program. Deadline October 9, 1989.

DISCOUNTED AIRLINE TICKET

A visitor with Dr. Dale Hicks, Dr. Gretzmacher, has an airline ticket with Northwest Airlines which he would like to sell to anyone interested in getting a ticket for personal use. He will sell the ticket at a discounted price. He purchased the ticket but was not able to use it. He will be at the Agronomy Picnic on Sunday or you may contact Dale Hicks if you are interested in this ticket.

BAD NEWS

Due to an airline strike in Australia, the Australian Society of Agronomy meetings have been postponed and intra-country travel is impractical, so Don Rasmusson's 3-week trip to Australia had to be cancelled.

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9 Ag 865

Agronomy Gleanings

September 22, 1989



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

THANK YOU NOTE

Thank you so much for the adorable sweat suit. Will already is a gopher fan. He enjoys the Minnesota Rouser - unfortunately he likes it the most at 2:00 a.m.! We're all doing terrific. Every day is better than the day before. No, I won't be ready to fill soil carts by the end of the week! I'm enjoying moving at a slower speed.

Thanks again,
Sue, Al and Will Nielsen

GRADUATE STUDENTS

The Fall Grad Club Meeting will be held at 3:00 p.m., Thursday, September 28 in 306 Borlaug Hall. All Grad students are encouraged to attend. Refreshments will be served.

UNDERGRAD SEEKING POSITION

Undergrad seeking part time position on Agronomy Research Project. Has field work and lab experience in agriculture. References available. Contact Marilyn Manley at 333-7853 days or evenings.

COMPUTER RENTAL

If you need to rent a computer for a short period of time, consider "Use 'R Computers". After calling each rental company in the metro area yellow pages, I found they had the most reasonable rates. Ask for Sean Loughre at 938-1100.

Margaret Stahler

AGRONOMY PICNIC

The Social Committee would like to thank all those people who attended the picnic. The Social Committee would also like to extend a special thanks to Laddie Elling for donating the Weber grill to the Department. If you left behind a green plastic plate or a bag of bluejeans, please see Nancy Ehke to claim them.

NOTICES

Please do not put notices on doors and walls unless it is necessary because of a late memo/notice. Thank you.

Avis

CALL FOR PROPOSALS

See Avis for a Call for Proposals for Phase VIII of Project MinneMac. Phase VI was to have been the last phase of a three-year, one million dollar Macintosh equipment grant from Apple Computer, Inc. to the University of Minnesota. The grant began July 1, 1986, and was scheduled to end June 30, 1989, but Apple Computer, Inc. has agreed to extend their grant for another year and has committed fifty Macintosh computers for Phases VII and VIII in 1989-90. In consideration of this gift, faculty are requested to create innovative instructional software. Awards will be made by a University committee based upon proposals received from faculty. Proposals are being accepted for Phase VIII until 4:30 p.m. October 31, 1989. Awards will be announced by November 30, 1989.

WINE AND CHEESE GET-TOGETHER

The Agronomy and Plant Genetics Wine and Cheese Get-Together will be held Friday, October 6, 1989 at 3:00 p.m. in 306 Borlaug Hall. Faculty, visiting faculty, post-docs, graduate students and civil service are invited to get acquainted or re-acquainted with your fellow work-mates while enjoying wine, cheese, coffee and apple cider.

POSITION ANNOUNCEMENTS

- Research Director, Utilization Center for Agricultural Products, College of Agriculture, Iowa State University.
- Assistant Clinical Specialist in Nutrition and Dietetics, Department of Food Science and Nutrition, University of Minnesota.
- Graduate Research Assistantship, Plant and Soil Science Department at Montana State University.
- Extension Educator-Program Development/Evaluation, Minnesota Extension Service, University of Minnesota.
- Extension Agronomist-Weed Science, University of Georgia, Athens, Georgia.
- Post-Doctoral Position on Alfalfa Genetics, USDA-ARS, Plant Science and Entomology Research Unit, Kansas State University, Manhattan, KS.
- Extension Specialist, Crop Production, Kansas State University, Manhattan, KS.
- Research Assistant in Range Ecology, Department of Agronomy, Kansas State University, Manhattan, KS.

SEMINARS

- Monday Sept. 25** Agronomy/Plant Biology Seminar
 Ethylene Induction by Fungal Endoxylanase by James D. Anderson, 12 noon, 306 Borlaug Hall.
- Soil Science Seminar
 Systems Agriculture 1950's: Memories of a Former Organic Farmer by Russell S. Adams, Jr., 3 p.m., 375 Borlaug Hall.

Tuesday Sept. 26

Wednes. Sept. 27

Thurs. Sept. 28

Plant Breeding Seminar

Use of Molecular Markers for Selection of Parents in Corn Breeding Programs by John W. Dudley, Univ. of Illinois, 4 p.m. in 306 Borlaug Hall.

Plant Biology Seminar

Systematics, biosystematics, and evolution: an example from the sedges by Rich Whitkus, 4 p.m., 70 BioScience.

Entomology Seminar

Calcification of the face fly puparium by Dr. Alberto Broce, 3:15 p.m., 490 Hodson.

Sustainable Agriculture

Panel Discussion on Sustainable Agriculture with panelists Ken McNamara, Dr. Deborah Allan, Dr. Steve Taff, and Ann Robinson at the St. Paul Student Center, Room 110, 12 noon.

Ecology and Behavioral Biology

Population Dynamics of a Barnacle Common to the Central California Coast by Dr. Jonathan Roughgarden, Stanford Univ., 313 Zoology at 3:30 p.m.

Agronomy Seminar

How to Design and Deliver a Scientific Presentation by Dr. Lauri Hayes at 4 p.m., Room 306, Borlaug Hall.

Plant Physiology Seminar

Altered Forms of Maize Acetyl-CoA Carboxylase Confer Herbicide Tolerance by Dave Somers, 3 p.m. in Room 335, Borlaug Hall.



Ed Arno

Why the Automated Talking Teller Never Caught On



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

WELCOME

Helmut Schiffer, a visiting scientist from Germany, recently arrived in the department. Helmut received his Ph.D. in biochemistry this past July at the University of Tubingen. He will be working in John Gronwald's lab during the next four months.

HONEY FOR SALE

Carroll Vance will once again take orders for fresh honey. The price is \$1.25 for 1 lb; \$2.25 for 2 lbs.; and \$5.50 for 5 lbs. Leave a note in his mailbox if you would like to order some.

HOT DOG FEED

The Gopher Crops and Soils Club will hold our annual "Hot Dog Feed" on Tuesday, October 3, 5:00 p.m., in the terrace area by 335 Borlaug Hall. All faculty and undergrads are welcome. This is a good opportunity to learn about club activities, and for us to recruit new members. We hope to see you there! Dan, Dave, Scott, Lori (club officers)

PHONE LIST CORRECTION

Please correct the phone number for Frantz Clotaire on the new phone numbers list which you received this week. His number should be 625-4740.

WINE AND CHEESE GET-TOGETHER

The Agronomy and Plant Genetics Department will hold the annual fall Wine and Cheese Get-together on Friday, October 6, 1989 at 3:30 p.m. in 306 Borlaug Hall. Plan to attend.

CAN YOU SING?

Staff and faculty are invited to audition for the fall quarter Symphonic Chorus on Tuesday evenings at 6:45 p.m. in 90 Ferguson Hall. Call 624-5056 for information.

ASA DRY RUN SCHEDULE

The ASA dry runs have been scheduled for the mornings of Thursday, October 5 and Friday, October 6 in Room 408 Agronomy. The posters will be available for viewing on Thursday, October 12 from 12-4 pm in 306 Borlaug Hall. Nancy Ehlke and Dan Putnam are in charge of arranging the schedules this year.

POSITION ANNOUNCEMENTS

- Farm Advisor-Pomology, Univ. of Calif., Div. of Agriculture, Oakland, CA.
- Asst. Instructor, Crop Production, Dept. of Agronomy, Univ. of Nebraska, Lincoln, NE.
- Plant Biochemist (Asst. or Assoc. Prof.) Oklahoma State Univ., Stillwater, OK.
- Research Agronomist to work with plant growth regulators, HybriTech Seed Intl' Inc., Lafayette, IN.
- Associate Director of the Alabama Ag. Experiment Station, Auburn University, AL.
- IPM Specialist, Pest Management Economist, Pesticides Management Specialist, Biological Control Specialist - all based at Turrialba, Costa Rica.
- Pest Management Economist based at Turrialba, Costa Rica.

DISCOUNTED AIRLINE TICKET

A visitor with Dr. Dale Hicks has an airline ticket with Northwest Airlines which he would like to sell to anyone interested. He will sell the ticket at a discounted price (\$250.00 value for \$150.00). He purchased the ticket but was not able to use it. Contact Dale Hicks if you are interested in this ticket.

AIR CONDITIONER

The air conditioning in Borlaug Hall is scheduled to be shut down on October 5.

NSF GRADUATE FELLOWSHIPS

The deadline for applications for 1990 NSF Graduate Fellowships is November 9, 1989. Please check the bulletin board for details.

U of M AG CAREER DAY

Explore your career opportunities at the Ag. Career Day on Wednesday, October 18, 1989, in the North Star Ballroom of the Student Center from 10:00 am to 3 pm. Talk to prospective employers.

FACULTY MEETING

Faculty: Mark your calendars. There will be a faculty meeting on Friday, October 13 at 1:00 in 306 Borlaug Hall.

SEMINARS THIS WEEK

Monday, October 3

Forest Resources Seminar

The Production of Disease Resistant Trees Using Somaclonal Variation
Darroll Skilling and Michael Ostry
Research Plant Pathologists, North Central Forest Exp. Station, in 365 Borlaug Hall at 3:00 p.m.

Food Science Seminar

Interaction of gum-milk proteins as determined by viscosity.
Karen Schmidt, in Rm 15 of Food Science and Nutrition at 4:00 p.m.

Soil Science Seminar

Agroforestry Farming Systems in Tropical Africa
Matthias K. Magunda, in 375 Borlaug Hall at 3:00 p.m.

Weed Science Discussion Group

Field Testing of POAST-Tolerant Corn Lines - Pete Dotray
Antagonism of Diclofop-methyl by DPX-L5300 in Wild Oats - Roger Baerg
in 306 Borlaug Hall at noon

Tuesday, October 4

Plant Breeding Seminar

A Review of Theories on the Genetic and Molecular Basis of Heterosis
Shawn Kaeppler, in 335 Borlaug Hall at 4:00 p.m.

Plant Pathology Seminar

Plant Maturation in Tree Species
Dr. Wes Hackett (Horticulture) in 365 Borlaug Hall at 4:00 p.m.

Plant Biology Seminar

Pathogen-produced toxins as research tools in plant biology
Dennis Mathews, in Rm 70 BioScience at 4:00 p.m.



"That's quite a hunting dog you've got there, Richard."

Wednesday, October 4

Ecology Seminar

Ecological constraints on management of a Columbian rain forest
Dr. Don Faber-Langendoen, in 313 Zoology at 3:30 p.m.

Thursday, October 5

Plant Physiology Seminar

Damage to the chloroplast: biochemistry and bioenergetics during and after chilling in light
Bob Wise, Univ. of Illinois, in Rm 335 Borlaug Hall at 3:00 p.m.

Genetics and Cell Biology

Structure and Dynamics of the E. Coli Rec A Protein
Dr. Ed Egelman, in Rm 33 McNeal Hall at 4:00 p.m.

Challenges in the Developing World

The Effectiveness of International Human Rights Pressures as Exemplified by the Situation in Argentina, 1976-1983
David Weissbrodt, in Rm 25 Law Center

AG-CITEMENT DAY and GOPHER GAME

If you are planning to attend the Ag-Citement day and Gopher football game and would like to go with a group from Agronomy please give your reservations to Lynne in 411 Borlaug by Monday, October 2.

DEATH

Lucy Wanschura's father died on Friday, September 29. The funeral will be on Monday in St. Paul (check the newspaper). Flowers were sent by the department.



"After I found out there was a tooth fairy, I made a deal with the dentist's janitor."



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

WELCOME

Please welcome Dr. Gregory Johnson to the department. Dr. Johnson is a visiting professor from Bethel College. He will be working with Ron Phillips until June 1990.

HONEY FOR SALE

Carroll Vance will once again take orders for fresh honey. The price is \$1.25 for 1 lb; \$2.25 for 2 lbs.; and \$5.50 for 5 lbs. Leave a note in his mailbox if you would like to order some.

LOST COPY CARD

Did anyone find a copy card in the xerox machine in the Agronomy Library last Thursday or Friday without a name on it? If so please return it to Lynne in 411 Borlaug Hall. Thanks.

DEATH

Mrs. Will Myers died last weekend. Mrs. Myers was the wife of Dr. William Myers who was a professor in our department for many years. Flowers were sent by the department. Dr. Myers died in 1970. Memorials for Mrs. Myers can be given to the Myers Scholarship Fund (in our department). The Myers Scholarship Fund is used to provide the Outstanding Undergraduate Student Award in our department each year.

THANK YOU NOTE

The family of Sena Burnside would like to thank the department for the lovely bouquet of flowers.

MANDATORY MEETING

Attention Graduate Students, Post Docs, Civil Service: All users of the scintillation counter, the isotope room and the dark room (Borlaug 529) are asked to attend a meeting on Thursday, October 12 at noon for a discussion on the proper use of those facilities. Please contact Sue Miller or Ingrid Remick if you cannot attend. Attendance will be taken. Those not in attendance or who have not previously contacted us will not be allowed to use the facilities. The meeting will be held in 408 Agronomy.

CAR FOR SALE

1985 Firebird SE, T-Tops, Fuel injected V-6, Power everything, 43,000 miles, burgandy exterior with black and gray cloth seats. \$6,200 or best offer.
Call 647-0400

MISSING

The light table for slide viewing is missing from Room 109 Agronomy. It has the number 510 etched on the front. Please return it to Becky in Agronomy Extension immediately.

WALLY NELSON HONORED

Wally Nelson was presented with the Distinguished Service Award by the Minnesota Agri-Growth Council on September 25 at its 21st annual meeting. The commendation for Wally reads: "In deep appreciation for his unselfish commitment and tireless research and education efforts on behalf of Minnesota's total agricultural industry." Senator Rudy Boschwitz also received one of these awards. Congratulations Wally!

GRADUATE SCHOOL POLICY

Graduate Students: Remember, as of Fall Quarter 1988, graduate students who decide to change their grading options, A/F, S/N, "V", must process this change as a formal registration change within the first two weeks of the quarter. Also, there is no back registration for course work.

GRANTS FOR GRADUATE STUDENTS

Graduate Students who have passed both written and oral prelim exams may apply for a Doctoral Dissertation Grant of \$1500 to help cover dissertation research expenses. The deadline for application is December 8, 1989. Contact the Grad School Fellowship Office, 422 Johnston for details.

E.C. STAKMAN AWARD PRESENTATION

The 1989 E.C. Stakman Award Presentation is scheduled for Thursday, October 12, at 4:00 p.m. in the North Star Ballroom. A reception will precede the presentation at 3:30 p.m. Dr. R. James Cook, USDA Plant Pathologist will receive this year's award. Dr. Cook is an internationally recognized authority on biological control of plant diseases and a proponent of holistic plant-health care in agriculture.

FACULTY MEETING

Faculty: Mark your calendars. There will be a faculty meeting on Friday, October 13 at 1:00 in 306 Borlaug Hall.

SEMINARS THIS WEEK

Monday, October 9

Plant Breeding Seminar

Endosperm Balance Number in Inter- and Intra-Specific Crosses.

Nathaniel Page, in 306 Borlaug at 4:00 p.m.

Forest Resources Seminar

The Forestry for Sustainable Development Program.

Allen Lundgren in 365 Borlaug Hall at 3:00 p.m.

Soil Science Seminar

Sugarbeet nitrogen research.

John A. Lamb, Northwest Exp. Station, Crookston, MN, in 375 Borlaug Hall at 3:00 p.m.

Food Science Seminar

Cooling systems in fluid milk processing plants - microorganisms isolated and potential control mechanisms.

Barbara Overdahl, in Rm 15 of Food Science and Nutrition at 4:00 p.m.

Characterization of ham flavor using an atomic emission detector.

David Baloga, in Rm 15 of Food Science and Nutrition at 4:30 p.m.

Tuesday, October 10

Plant Pathology Seminar

Electron Microscopy of Meiotic Pachytene: 3D Reconstruction of Karoytype- motc-chromosome associations.

Eric Boehm, in 365 Borlaug Hall at 4:00 p.m.

Plant Biology Seminar

Aspartate-Derived Amino Acid Biosynthesis in Plants: A Biochemical and Genetic Analysis.

M. Jacobs, Institute for Molecular Biology, Free Univ. of Brussels, in Rm 70 BioScience at 4:00 p.m.

Wednesday, October 11

Agronomy Seminar

Observations on Agricultural Research in the USSR and Poland

Dan Putnam, Jim Orf, and Richard Meronuck in 306 Borlaug at 4:00 p.m.

Ecology Seminar

Chaos and ecological prediction

Dr. George Sugihara, Scripps Inst. of Oceanography, Univ. of California, San Diego, in 313 Zoology at 3:30 p.m.

Thursday, October 12

Genetics and Cell Biology

What's in a gap junction?

Dr. Barbara Yancey, Division of Biology, Caltech, in Rm 33 McNeal Hall at 4:00 p.m.

Plant Pathology

New Directions in Plant Health Management.

Dr. R. James Cook, E.C. Stakman Award Recipient and USDA Plant Pathologist, Washington State University, in North Star Ballroom at 4:00 p.m.

Friday, October 13

Soil Science Special Seminar

Regional differences of crop production potential and nutrient requirements in the European community. Application of GIS and physical land evaluation models.

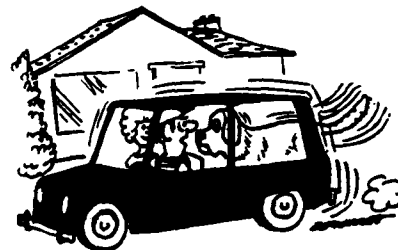
Henry Van Lanen, the Winand Staring Centre for Integrated Land, Soil & Water Research, Wageningen, Netherlands, in 375 Borlaug Hall at 1:00 p.m.

POSITION ANNOUNCEMENTS

- Assistant Breeder - Hybrid Wheat Breeding, HybriTech Seed Int'l, in Lafayette, Indiana. M.S. or B.S. level.
- Assistant Agronomist - North Central Research Center in Minot, North Dakota. M.S. level.
- Specialist - Plant and Soil Science at the University of Tennessee, Knoxville, TN. The specialist will work on weed control programs. Ph.D. level.
- Plant Cell/Developmental Biologist, Dept. of Botany, Univ. of Wisconsin-Madison, at Assistant Professor level.
- Full-time Research Assistant, Wheat breeding, Dept. of Agronomy, Kansas State University in Manhattan, KS. B.S. or M.S. level.
- Director, Plant and Pest Diagnostic Lab, Purdue University, West Lafayette, IN.
- Research Specialist-Plant Breeding and Pathology for tobacco breeding, Dept. of Agronomy, Univ. of Kentucky, Lexington, KY. M.S. level.
- Extension Environmental Protection Agency Liaison, Minnesota Extension Service, St. Paul, MN.
- Assistant/Associate Professor, Forage Crops, Cornell University, Ithaca, NY.
- Seed Corn Production Manager, Retail Garden Store Manager, Quality Control/Research, Jung Farms, Inc., Randolph, Wisconsin.

A mousy little locksmith was caught in a raid on a gambling den. When he was brought before the judge, he was asked, "What were you doing in a gambling den?"

"Believe it or not, Your Honor," he answered, "I was making a bolt for the door."



"Would you mind not wagging the car?"



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

CONGRATULATIONS NEAL

Neal Martin received the Director's Award to Distinguished Faculty on October 10 at the Extension Annual Conference. This award is given annually to an outstanding campus-based extension faculty member. It carries a \$1,000 stipend through the U of M Foundation and is financed by contributions. Past winners of this award from the department were Dale Hicks and Gerry Miller.

Congratulations, Neal.

EXTENSION FACULTY RECOGNIZED

Departmental Extension Faculty received considerable recognition at the 1989 Minnesota Extension Service Annual Conference, October 9-12. Dale Hicks received his 25 years of service certificate, and Lee Hardman became chairman of the Extension Faculty Consultative Committee.

O.C. Burnside

NEW DEPARTMENT VEHICLE

The Department has recently purchased a 1990 Dodge Caravan (mini-van), silver blue metallic color. The number for this vehicle is 2514. It will replace the Chevy Celebrity, #3305.

CONTRIBUTION CARD

Don't forget to return your contribution cards to Avis Kunkel in 411 Borlaug Hall (even if you are not making a contribution return the card). Thanks.

FIRE ALARM TESTING

The fire alarms in the Agronomy building will be tested on Wednesday, October 18 at about 10:00 a.m. The alarm horns will sound during the test.

THANK YOU NOTE

Mohamed Oussible will be returning to Morocco on October 17. "When I came here on April 24, my main objective was to find a solution to my eye problem. I am thankful to God for allowing me to accomplish this objective and more. I express my thanks to all faculty members, secretaries and technicians for their help and their moral support which made my stay enjoyable and fruitful, before, during and after my eye surgery."

Mohamed Oussible

ASA MEETING

The Annual American Society of Agronomy meetings will be held next week in Las Vegas, Nevada. Many of the faculty and graduate students will be gone.

PHASE VIII OF PROJECT MINNEMAC

Proposals for Phase VIII of Project MinneMac are due by 4:30 p.m. on October 31.

GRAD STUDENT FALL ACTIVITY

All graduate students are invited to bring family and friends to the Brent Delzer farm near Chaska on Thursday evening, October 26 for a cookout/bonfire/hayride. A 6:00 p.m. chili/hot dog supper is planned. Please plan to attend. More information later. Questions? Contact Paul Peterson.

RICHARD ANDERSON RETIREMENT

Richard H. Anderson, Emerti Professor and Superintendent of the U of M Southern Experiment Station in Waseca was honored on October 6, 1989 for long and capable service to the University of Minnesota. Dick retired at the end of 1988, but continues to serve as superintendent of the SES until a successor is hired. The entire evening was an enjoyable tribute to an outstanding scientist and administrator. We congratulate you, Dick on your 32 years of dedicated and effective service to Minnesota Agriculture.

NEW BOOK IN LIBRARY

The departmental library has just received: Nutritional Quality of Cereal Grains: Genetic and Agronomic Improvement, R.A. Olson and K.J. Frey (Eds). 1987. The monograph presents evaluations of the nutritional value of the major cereals and assesses the opportunities and limitations that exist for genetic and agronomic manipulation of these nutritional values.

THANK YOU NOTE

I would like to thank everyone in the Department for the lovely flowers sent to me on the occasion of my father's death. I loved him very much and miss terribly but I have found that acts of kindness and concern such as this really help to make the transition. Thank you all very much. Lucy Wanschura

SEMINARS THIS WEEK

Monday, October 16

Weed Science Discussion Group

Research on Weed Management Systems to Reduce Movement of Herbicides to Groundwater. Douglas Buhler, at noon in 306 Borlaug Hall.

Food Science Seminar

The stability of vitamin D3 in milk. Shelly Schneider, in Rm 15 of Food Science and Nutrition at 4:00 p.m.

Tuesday, October 17

Plant Pathology Seminar

Integrated Pest Management of Apples Jerry Spetzman in 365 Borlaug Hall at 4:00 p.m.

Plant Biology Seminar

Postponed for this week.

Wednesday, October 18

Ecology Seminar

The balance of direct and indirect fitness components for cooperative birds.

Dr. Kerry Rabenold, Purdue Univ. in 313 Zoology at 3:30 p.m.

Horticulture Science Seminar

Developing effective nutrient seed coatings for grasses and legumes.

Dr. J.M. Scott, visiting lecturer from Univ. of New England, Armidale, N.S.W., Australia, in 415 Alderman Hall at 4:00 p.m.

Thursday, October 19

Genetics and Cell Biology

Volvox Development

David Kirk, Washington Univ., Room 33 McNeal Hall at 4:00 p.m.

Plant Physiology

Herbicide detoxification by plant cytochrome P450 enzymes Jim McFadden, in 335 Borlaug Hall at 3:00 p.m.

POSITION ANNOUNCEMENTS

- Professional Agronomist, Dept. of Agronomy, teaching and extension, Purdue Univ., West Lafayette, IN.
- Asst. or Assoc. Prof., Maize Genetics and Breeding, Dept. of Agronomy, Purdue Univ., West Lafayette, IN.
- Postdoctoral Research Associate in Plant Molecular Genetics, Tuskegee Univ., Tuskegee, AL.
- Asst. Prof., Crop Production and Natural Resources Management, North Carolina State Univ., Raleigh, NC.
- Postdoctoral in Plant Genetics, Dept. of Agronomy, Univ. of Wisconsin, Madison, WI.
- Crops and Soils Agent, Chippewa County, Univ. of Wisconsin-Extension, Madison, WI.
- Asst. Prof. in Weed Management Systems Research and Teaching, Univ. of Wisconsin, Madison, WI.
- Faculty-Endowed Chair in Agricultural and Environmental Issues, Auburn Univ., Alabama.

"Sorry if my speech seemed long," concluded the guest speaker, "but I forgot my watch and I don't see a clock anywhere."

Came a voice from the back of the auditorium: "There's a calendar on the wall right next to you."

Sign on auto body shop: "May I have the next dents?"

He: "Want to get married? It'd be easy; my dad's a minister."

She: "We could give it a try; my dad's a lawyer."

"I hear your son's on the high school football team," said the neighbor. "What position does he play?"

"I'm not sure," said the parent. "I think he's a drawback."

Parenthood is definitely an heir-raising experience.

A shipwrecked sailor who had spent three years on a tiny island was elated when he saw a boat approaching. As it reached shore, a young officer tossed the sailor a bundle of newspapers. "Captain's compliments," he said. "Read these through and let him know if you wish to be rescued."

A highly competitive foursome was going around the golf course on a sweltering summer day. One of the group had a sun stroke—and the others made him count it.

Baby boom: birthquake.

The difference between education and experience is really quite simple: Education is what you get from reading the fine print. Experience is what you get from *not* reading it.

Agronomy Gleanings

October 20, 1989

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

ASA MEETINGS

The ASA meetings in Las Vegas, Nevada had the third largest ever attendance of 4707 registrants. The program was excellent with about 50 percent of the talks presented as posters. Robert Busch received the ASA and CSSA Fellow awards, Carroll Vance received the CSSA Fellow award, and Dave Somers received the Young Crop Scientist Award. Our Minnesota Get-Together was an enjoyable affair with over 150 in attendance.

Orvin Burnside

CONGRATULATIONS

Susan Tse had a baby girl, Cynthia, on Monday, October 9. A U of M sweatshirt will be given by the Flower and Gift Committee.

DISASTER RELIEF

For anyone wishing to contribute to the earthquake and hurricane funds, please send donations to: American Red Cross Disaster Relief, Twin Cities Red Cross, P. O. Box 11842, St. Paul, MN 55111.

WINTER STORAGE OF VEHICLES AND EQUIPMENT

The Judging Arena at the State Fairgrounds will be available again this year on October 23, for the storage of our plot equipment and project vehicles. Plan on storing all vehicles that will not be used during the winter months. Cars and trucks parked around the greenhouses and the Crop Service Building create a lot of problems for snow removal.

Contact Tom Warnke when you are ready to store your equipment.

Be sure to check the antifreeze and service your equipment before storage!

FACULTY

Now that you have updated your Personnel Files, please remember to update your publication books in the library.

CLEAN UP AFTER YOURSELVES

Faculty - Staff - Students. Make sure you clean up after yourself when you use one of the seminar rooms. 408 was left in a big mess after everyone got through making posters for ASA meetings. Also, do not use spray photo mount adhesive without newspapers underneath to catch the excess.

SEMINAR ROOMS

If you want to use a seminar room, you must sign it out first in 411 Borlaug Hall. Don't just assume a room is available when you want it.

PLEASE RETURN CARTS

If you use the green carts from the Xerox room for hauling boxes to your labs, be sure to return the cart promptly.

FACULTY - INTRODUCE NEW PEOPLE

If you have a new post-doc, civil service person, student or visitor on your project, be sure to introduce them to Dr. Burnside.

FOREIGN SCHOLARSHIPS ARE NOT TAXABLE

In May, the U.S. Internal Revenue Service (IRS) ruled that foreign scholarships are not subject to U.S. tax. This may benefit 30,000 foreign students and scholars in the U.S.

Revenue Ruling 98-67 declares that the "source" of scholarship or fellowship payments made to nonresident aliens is the paying agency's country of residence. This ruling revokes Revenue Rulings 66-291 and 66-292. Taxpayers may apply the ruling retroactively to monies awarded on or after January 1, 1986.

For more information on the ruling, call Carol P. Tello, IRS Office of Associate Chief Counsel (International), (202) 377-9059.

GRADUATE STUDENT COLLOQUIUM

Graduate Students: Thursday, October 26, Noon, 306 Borlaug Hall, is the first Graduate Student Colloquium. Speakers and topics will be: Robert Dehaan, Development of Brassica cover crop for weed control in corn and Shawn Kaeppler, Molecular and quantitative variation among regenerants from maize tissue culture. This colloquium offers an opportunity for informal discussion of research, to let people know what you are doing and get input from other Graduate Students.

Ulcers: What you get from mountain-climbing over molehills.

You can lead a child to college, but you can't make him think. ■

SEMINARS THIS WEEK

Monday, October 23

Weed Science Discussion Group

Cytochrome P-450 Monooxygenases and Herbicide Metabolism by Dr. James McFadden and Atrazine Resistance in Velvetleaf by Dr. Michael Anderson, at Noon in 306 Borlaug Hall.

Plant Breeding Seminar

Polymerase Chain Reaction: Potential Applications to Plant Breeding by Eric Jellen, 4:00 p.m., 306 Borlaug Hall.

Forest Resources Seminar

Recognizing Uncertainty in Forest Planning by Howard Hoganson, 3:00 p.m., 100 Natural Resources Adm. Bldg.

Soil Science Seminar

Field Training as Part of the Educational System at Hassan II Institute (IAV) Morocco by Mustapha Naimi, 3:00 p.m., 375 Borlaug Hall.

Food Science Seminar

Use of direct headspace gas chromatography to determine the shelf life of pasteurized milk by M.L. San Buenaventura, 4:00 p.m., 15 FScN.

Tuesday, October 24

Plant Pathology Seminar

Scanning-Tunneling Electron Microscopy of Nucleic Acids by Dr. Patsy Arscott, 4:00 p.m., 365 Borlaug Hall.

Ph.D. Thesis Defense

Somaclonal Variation in Oat (*Avena sativa* L.) Lines Derived from Tissue Culture by Lynn Dahleen, 9:00 a.m., 306 Borlaug Hall.

Insights

Are Land Grant Universities Sustainable? by Kent Crookston, Noon, 110 Student Center

Wednesday, October 25

Agronomy Seminar

Lignin Composition and Forage Digestibility by Ryan L. Hockensmith, 4:00 p.m., 306 Borlaug Hall.

Ecology Seminar

Lessons in Biological Control: Development of a Mass-release Boll-weevil Population by Dr. Frank Enfield, 3:30 p.m., 313 Zoology

Personal Safety on Campus for Women 12:15 p.m., Coffman Union

Issues in Sustainable Agriculture

Are We Sustaining Our Soil Resource in Minnesota? by Dave Behm, Noon, 202 Student Center

October 25-27

The Future of Plant Biology North Star Ballroom

Friday, October 27

Challenges in Developing World

Technical and Institutional Change in Agricultural Development by Vernon Ruttan, 12:15 p.m., Coffman Union Room 337

Saturday, October 28

Natural Resource Congress, A Conference Focusing on the Future of the Environmental Trust Fund, 10:00 a.m. to 5:30 p.m., State Office Building

POSITION ANNOUNCEMENTS

-Agricultural Officer, Food and Agriculture Organization of the United Nations, Rome

-Assistant Professor of Forage Crops, Dept. of Agronomy, Cornell Univ., Ithaca, NY

-Assistant/Associate Professor of Soil, Water and Plant Analytical Chemistry, Dept. of Agronomy, Cornell Univ., Ithaca, NY

-Farm Advisor-Water/Soils and Cotton, Div. of Ag and Natural Resources, Univ. of California, Fresno County, CA

-Assistant Professor, Soil-Environmental Physics, Dept. of Agronomy, Univ. of Georgia, Griffin, GA

-Extension Weed Specialist, NDSU Extension Service, Fargo, ND

-Research Assistant, Soil Fertility, Dept. of Agronomy, Univ. of Arkansas, Fayetteville, AR

-Assistant Professor in Grazing Systems/Grazing Management, Animal and Range Sciences Dept, Montana State Univ., Bozeman, MT

-Assistant or Associate Professor, Ornamental Horticulture and Plant Physiology, Texas A&M, El Paso, TX

-Interim Agricultural Agent, Juneau County, Univ. of Wisconsin, Madison, WI

The Agricultural College of the Humid Tropic Region, San Jose, Costa Rica will be opening March 19, 1990. Applications are being received for the following positions: Professor, Food, Agriculture and Natural Resources; Professor, Agriculture and Natural Resources; Professor, Tropical Crops Production; Coordinator of Student Affairs; Professor, Mechanical Skills for the Humid Trop Region; and Coordinator, Continuing Education Program.

Halloween costumes

Match the actors (left) with the Halloween costumes (right) they might wear based on the missing words in TV series they've starred in (below). (Example: Lorna Patterson would match with Private and with — *Benjamin*.) Trick or treat!

- | | |
|---------------------|--------------|
| 1. Bruce Boxleitner | a. Beast |
| 2. Barry Evans | b. Doctor |
| 3. Sally Field | c. Doll |
| 4. David Hasselhoff | d. Ghost |
| 5. Irish McCalla | e. Knight |
| 6. Edward Mulhare | f. Martian |
| 7. Julie Newmar | g. Nun |
| 8. Ron Perlman | h. Queen |
| 9. Suzanne Somers | i. Scarecrow |
| 10. Ray Walston | j. Sheriff |

- | | |
|----------------------------|-----------------------------------|
| z. — <i>and Mrs. King</i> | u. — <i>Rider</i> |
| y. — <i>in the House</i> | t. <i>Sheena, — of the Jungle</i> |
| x. <i>Beauty and the —</i> | s. <i>She's the —</i> |
| w. <i>My Favorite —</i> | r. <i>The — and Mrs. Muir</i> |
| v. <i>My Living —</i> | q. <i>The Flying —</i> |

9-10-f-w

1-1-2-2-b-y-3-8-d-4-c-u-5-h-l-6-d-r-7-c-v-8-a-x

Halloween costumes

Mlw
9A9862

Agronomy Gleanings

October 27, 1989

DEPARTMENT OF AGRONOMY & PLANT GENETICS
University of Minnesota, St. Paul

CONGRATULATIONS TO DONALD RASMUSSEN

Donald Rasmusson has been selected to receive the Torch and Shield Award from the University of Minnesota-Crookston. This award honors individuals for their contributions to the U of M-Crookston. This year's Torch and Shield Banquet is scheduled for November 2, 1989.

GOOD LUCK CROPS TEAM!

The Agronomy Department will host the Annual Collegiate Regional Crops Contest here on Saturday, October 28, 1989. Teams participating include:

- Univ. of MN - Twin Cities
- Univ. of MN - Crookston
- South Dakota State Univ.
- Univ. of WI - Platteville

Members of the University of MN-Twin Cities Crops Team include: Jason Baumgard, Gary Suess, Randy Vancura, Bill Kokowski (undergrad T.A.) and Coach Vernon Cardwell.

RECEPTION FOR UGANDAN VISITORS

You are cordially invited to attend a reception in honor of Dr. Joseph Mukiibi, Secretary for Research Ministry of Agriculture and Dr. John Mugerwa, Dean, Faculty of Agriculture Makerere University - Wednesday, November 1, 1989, 1:45-3:00 p.m., VoTech Building Atrium.

NOTE FROM T.T. CHANG

T.T. Chang, International Rice Research Institute, Manila, was unable to attend the ASA meetings "due to extremely difficult and painful situation here related to planning, budgeting, reorganization and reduction of staff". He sends his regrets to all faculty members for missing the traditional Minnesota Get-Together in Las Vegas.

BUSH SABBATICAL INFORMATION

Please submit Bush Sabbatical applications to the Dean's Office by Friday, January 5, 1990, so that Dean Wharton may have time to review before forwarding to Central by January 12. See Avis with questions.

GRADUATE STUDENT COLLOQUIUM

Thursday, November 2, 12:00 Noon, 306 Borlaug Hall. Speakers and topics include: "Developing an Antibody and Nucleic Acid Probe for Acetyl Coenzyme A Carboxylase" by Robin Keith and "Sethoxydim-Tolerant Corn" by Song Joong Yun. Please plan to attend.

REDUCTION OF CAMPUS ELECTRICAL SERVICE CAPACITY

The electrical service capacity will be reduced for work on the main campus electrical service equipment. This interruption is to occur between the hours of 8:00 a.m. and 4:00 p.m., on Saturday, November 4, 1989. There will be no interruption of electrical service to any building. Non-critical ventilation systems will be turned off and all non-critical activity should be re-scheduled to reduce the amount of lighting and equipment in use. All non-critical departmental equipment should be turned off for the duration of this period. Please notify Physical Plant Operations, Tim Coyle at 625-0336 of any problems which would prevent the interruption from proceeding on schedule or of any temporary service that would be necessary. This notification must be made immediately.

NEW CLASS HOURS

Twin Cities Campus will move to 50-minute class module beginning Winter Quarter, 1990. When implemented, the start times for 50 minutes classes will be as follows:

Minneapolis	St. Paul
0800-0850	0830-0920
0905-0955	0935-1025
1010-1100	1040-1130
1115-1205	1145-1235
1220-1310	1250-1340
1325-1415	1355-1445
1430-1520	1500-1550
1535-1625	1605-1655
1640-1730	

Summer Session, 1990 hours:

- 0800-0900
- 0915-1015
- 1030-1130
- 1145-1245
- 1300-1400
- 1415-1515
- 1530-1630
- 1645-1745

Why is it...

- ...that a bad memory is go good at recalling things best forgotten?
- ...that people who are great at remembering a joke can't remember how many times they've already told it to you?

Readers Digest

SEMINARS THIS WEEK

Monday, October 30

Weed Science Discussion Group

Atrazine and Alachlor Dissipation in Two Minnesota Soils by Brent Sorenson and The Influence of Ammonium Sulfate on Quackgrass Crown Buds by Joe Spitzmueller, Noon, 306 Borlaug Hall.

Plant Breeding Seminar

Abscisic Acid Insensitivity and Response to Stress in Wheat by Alan Green, 4:00 p.m., 306 Borlaug Hall.

Forest Resources Seminar

Stand Development Analysis of Red Pine and Aspen in Northern Minnesota by Gregg P. Hove, 3:00 p.m., 100 NR Adm Bldg.

Soil Science Seminar

Soil Degradation After Clearing of Tropical Rain Forests by Egbert Spaans, 3:00 p.m., 375 Borlaug Hall.

Food Science Seminar

Evaluation of Cleaning and Sanitizing Procedures for Ultrafiltration Membranes by Kathy Riesterer, 4:00 p.m., 15 FScN.

Tuesday, October 31

Plant Biology Seminar

A Virus-Infected Eukaryotic Green Alga is a New Source of DNA Restriction and Modification Enzymes by James Van Etten, 4:00 p.m., 70 Bio Sci. Center.

Forest Resources Seminar

Aerial Video Imaging in Forestry by Tuomas Hame, Technical Research Centre of Finland, Helsinki, 11:00 a.m., 100 NR Adm Bldg.

Plant Pathology Seminar

Evidence for a Prehistoric Epidemic Disease in Eastern Hemlock Trees by Dr. Margaret Davis, 4:00 p.m., 365 Borlaug Hall.

Wednesday, November 1

Agronomy Seminar

Observations on Agricultural Research in Morocco by Dale Hicks, 4:00 p.m., 306 Borlaug Hall.

Ecology, Evolution Seminar

Vegetation Sensing Properties of Quaternary Pollen Data by Dr. Steven Jackson, 3:30 p.m., 313 Zoology.

Forest Resources Seminar

Understanding Visitor Satisfaction: A Multi-Dimensional Approach by Dr. Cary D. McDonald, Candidate for Open Faculty Position, 3:00 p.m., 365 Borlaug Hall.

Horticultural Seminar

Dr. Patrick Borich, Dean and Director, MN Extension Service, 4:00 p.m., 415 Alderman Hall.

China's Pro-Democracy Movement, 1989, 12:15 p.m., Coffman Union

NC Soil Conservation Seminar

Off-Site Damage Needs by Vern Finney, 9:30 a.m., NCSWCRL, Morris.

Thursday, November 2

Plant Physiology Seminar

Factors Affecting Sucrose Uptake in Soybean Embryos by Susan Stombaugh, 2:45 p.m., 335 Borlaug Hall.

Genetics & Cell Biology

Memory in chicks by Dr. Steven Rose, 4:00 p.m., 33 McNeal Hall.

POSITION ANNOUNCEMENTS

-Assistant/Associate Professor Cereal Chemist, Dept. of Agronomy, University of Nebraska-Lincoln.

-Field Supervisor, MN Crop Improvement Association, St. Paul, MN.

-Postdoctoral Research Associate, Dept. of Agronomy, University of Illinois, Urbana, IL.

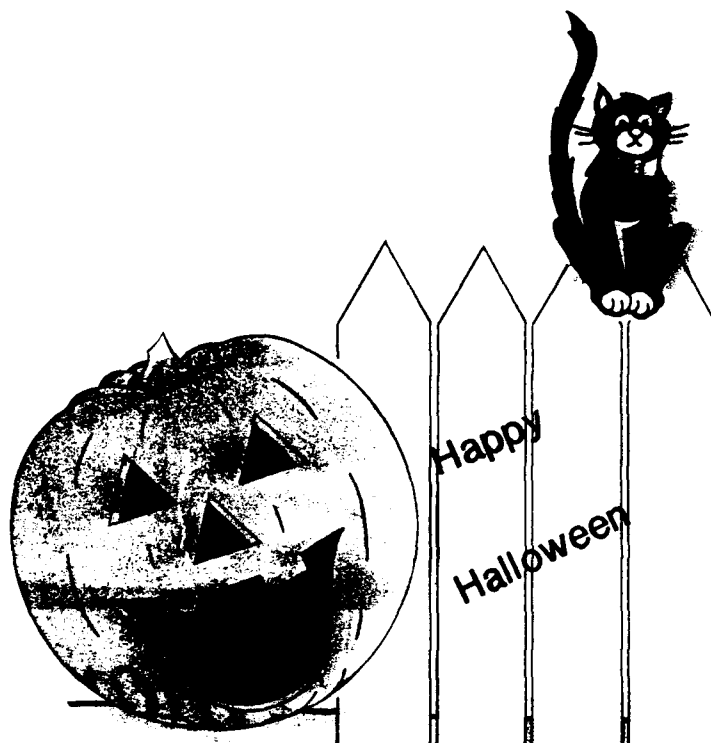
-Associate Director, Oklahoma Agricultural Experiment Station, Stillwater, OK.

-Assistant or Associate Professor, Plant Ecology/Evolution, Division of Biological Sciences, Univ. of Missouri, Columbia, Missouri.

-BS/MS/PhD Researches, Crop Transformation Group, Monsanto Company, St. Louis, MO.

-Graduate Research Assistantship, Dept. of Plant Science, SDSU, Brookings, SD.

-Graduate Research Assistant, Water Resources Institute, SDSU, Brookings, SD.



MW/9A0860

Agronomy Gleanings

November 3, 1989

DEPARTMENT OF AGRONOMY & PLANT GENETICS
University of Minnesota, St. Paul

THANK YOU

My husband and I were very grateful of your thoughtful gift - the baby sport wear (?) - to our infant daughter, Cynthia. Cynthia is doing beautifully. She's gained one pound after her birth 10 days ago (she was 8 pounds and 7 ounces at birth). I am also doing fine. Thank you very much again and hope to see you all soon.

Gratefully yours,
Susan Tse

LOST AND FOUND

A set of 2 keys on a pink spiral cord has been turned in to the Main Office. They were found last Friday in the Agronomy Building. Please see Rebecca in the Main Office if they are yours.

VEHICLE UPDATE

As of November 1 our Chevrolet Celebrity Sedan, #3305, will no longer be in our car pool. It is being sold at a University Auction to be held on November 18th. The Ford Ranger pickup, #3605, is also going to be taken off the signout sheet on November 1st and will be stored for the winter months.

Tom Warnke

NORTHRUP KING AWARDS

The Northrup King Award Presentation is scheduled for December 1, 1989 at 3:30 p.m. in 306 Borlaug. Please make your calendars.

POWER CONDITIONER AVAILABLE

The power conditioner which was used for the mass spectrometer on Dr. Heichel's project is no longer used and is available to any other project that might have a need for it. The power conditioner removes millisec fluctuations in line voltage. The types of instrumentation the power conditioner is best suited for include: large computers, electron microscopes, GC-mass spectrometers. Please contact Avis if you could use this piece of equipment.

BRUCE MAXWELL TO JOIN STAFF

Bruce Maxwell will join the faculty as an Assistant Professor, Weed Ecology on April 2, 1990. "I am looking forward to working in Minnesota and establishing a weed ecology program."

AG-CITEMENT GEAR

Ag-Citement T-shirts and sweatshirts are available for order. T-shirts at \$8 and sweatshirts at \$16.50, sizes M-XXL. Samples will hang in the main office. The purpose is to promote Ag-Citement.

REGIONAL CROPS CONTEST RESULTS

Results of Regional Crops Contest hosted by the Department, Saturday, October 28, 1989.

Four teams from the University of Minnesota-St. Paul, University of Minnesota-Crookston, University of Wisconsin-Platteville and South Dakota State University participated.

- Team placings were:
- 1 - South Dakota State
 - 2 - U of W - Platteville
 - 3 - U of M - St. Paul
 - 4 - U of M - Crookston

The University of Minnesota-St. Paul team composed of Randy Vancura, Gary Suess and Jason Baumgard pleased 1st in identification, 3rd in seed analysis and 4th in grain grading.

Randy Vancura and Gary Suess were first and second in identification.

V.B. Cardwell

KELLOGG NATIONAL FELLOWSHIP AWARDS

The W.K. Kellogg Foundation is pleased to announce the availability of Kellogg National Fellowship awards for 1990. Initiated in 1980, the Program is designed to prepare leaders who can function effectively and knowledgeably in dealing with complex problems where narrow expertise is not sufficient. It seeks to involve professional men and women in the earlier years of their careers who are interested in developing interdisciplinary and cross-cultural perspectives on contemporary human and social problems. The deadline for applications is December 15, 1989. Up to 50 awards will be given. Please see Avis for applications.

ANNOUNCING - NEW COURSE

Effective Teaching in a College of Agriculture. A course designed for graduate students who seek careers in post-secondary or college teaching. Offered Winter Quarter 1990, taught by: Dr. George Wardlow, Department of Agricultural Education. Credits, 3; Time 15:00-17:30 Tuesday; Room R385 VoTech. For more information or to enroll contact: Dr. George Wardlow, 320 VoTech Building, 624-2221.

NOTE SEMINAR TIME CHANGE

Please note the Agronomy Seminar on November 15 will be held at 3:00 p.m. in 306 Borlaug Hall. Title: Impact of Sustainable Agriculture at the 1990 Farm Bill on Weed Science by Dr. Homer LeBaron, Senior Research Fellow, Ciba-Geigy.

SEMINARS THIS WEEK

Monday, November 6

Weed Science Discussion Group

Herbicide Mode of Action by Jeff Gunsolus, Noon, 306 Borlaug Hall.

Plant Breeding Seminar

Interspecific Crossibility Genes in Small Grains by James Reysack, 4:00 p.m., 306 Borlaug Hall.

Forest Resources Seminar

The Nature Conservancy's Priorities and Planning Process in Minnesota by Margaret Kohring, 3:00 p.m., 100 Natural Resources Adm Bldg.

Soil Science Seminar

Chemical and Physical Factors Determining the Primary Silicate Mineral Weathering Rates in Soils by Hailin Zhang, 3:00 p.m., 376 Borlaug Hall.

Food Science Seminar

The Relationship of Sulfhydryl Compounds to Ascorbic Acid Retention in Vegetables by Julie Albrecht, 4:00 p.m., Rm 15 FS&N.

Entomology Special Seminar

Minisymposium: Perspectives on Host-Seeking Behavior of Vector Insects by Dr. John Brady, Dr. Gabriella Gibson, Dr. C.J. Otter, and Dr. W. Takken, 9:00 a.m.-Noon, 490 Hodson Hall.

Tuesday, November 7

Plant Biology Seminar

Nitrogen Starvation and Repletion in a Unicellular Non-Nitrogen-Fixing Cyanobacterium by Mary Allen, Wellesley College, 4:00 p.m., 70 Bio Sciences Center.

Plant Pathology Seminar

Seminar by Dehong Jiang, 4:00 p.m., 365 Borlaug Hall.

Wednesday, November 8

Agronomy Seminar

Analysis of Weed-Crop Competition by Abdelfatah Elbehri, 4:00 p.m., 306 Borlaug Hall.

Ecology, Evolution Seminar

The Socio-Genetics of Honeybees by Dr. Robert Page, 3:30 p.m., Zoology 313.

Horticultural Seminar

The Control of Long Day Floral Initiation *Euphorbia pulcherrima* by Michael Evans, 4:00 p.m., 415 Alderman Hall.

Fractured Spirit - The Search for Community in an Isolated Age by Reverend David Selzer, 12:15 p.m., 351 Coffman Union.

NC Soil Conservation Seminar

Farm Program Opportunities by Steve Wagner, 9:30 a.m., NCSWCRL, Morris.

Thursday, November 9

Graduate Student Colloquium

Recurrent Selection for Increased Grain Protein Content in Wheat by Brent Delzer and Degradation and Movement of Atrazine, Alachlor and Dicamba in Three Minnesota Soils by Brent Sorenson, 12:00 Noon, 306 Borlaug Hall.

Plant Physiology Seminar

Feedback Effects Within Photosynthesis by Tom Sharky, 3:00 p.m., 335 Borlaug Hall.

Soil Science Seminar

Interstrain Competition in *Bradyrhizobium japonicum*: An Analysis of Train and Environmental Effects by Timothy R. McDermott, 9:00 a.m., 375 Borlaug Hall.

Forest Resources Seminar

What Are We In Business For? A Comment on the State of Recreation Research, Service, and Teaching by Dr. Richard Knopf, Candidate for Open Faculty Position, 3:00 p.m., 365 Borlaug Hall.

POSITION ANNOUNCEMENTS

- Research Associate, DeKalb-Pfizer Genetics, DeKalb, IL.
- Post-Doctoral Associate, Soil Fertility, Microbiology, Dept. of Soil Science, University of Minnesota, St. Paul, MN.
- Youth EFNEP Coordinator, Home Economics, Minnesota Extension Service, University of Minnesota, St. Paul, MN.
- Assistant/Associate Professor of Crop Science (Plant Breeding/Genetics), Dept. of Agronomy, Louisiana State University, Baton Rouge, LA.
- Plant Breeders (3), International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria.
- Full-time lecturer, Crop Science, Cal Poly, San Luis Obispo, CA.
- Coordinator, Continuing Education Program, Agricultural College of Humid Tropic Region, San Jose, Costa Rica.
- Postdoctoral Research Associate, USDA-ARS, U.S. Regional Pasture Research Laboratory, University Park, PA.
- Profession and Head, Dept. of Horticulture, Iowa State University, Ames, Iowa.
- Research Associates (2), Dept. of Agronomy, Colorado State University, Fort Collins, CO.

ASA MEETINGS

For those who like to do long range planning, the dates and locations of future ASA meetings are listed below:

Year	Date	Location
1990	Oct 21-26	San Antonio, TX
1991	Oct 27-Nov 1	Denver, CO
1992	either last wk of October or Nov 1-6	Minneapolis, MN
1993	Nov 14-20	Washington, DC
1994	Oct 23-30	Anaheim, CA



"I still think the basic concept of computerized irrigation is good."

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

TURKEY RAFFLE AND SLOPPY JOE DAY

IMAGINE! Two-fisted delight! A sloppy joe sandwich in one hand, a winning raffle ticket in the other--**this could be you!** Turkey raffle and sloppy joe lunch Tuesday, Nov. 21, 11:45 am--12:45 pm, 306 Borlaug Hall. A Grad-Club fund-raising EXTRAVAGANZA!

GIVE THANKS FOR DAYS OFF!

Mark your calendars! You get two (count 'em, 2) days off, Thursday and Friday, November 23 & 24.

MISSING AN APPLIANCE?

A tape recorder was found abandoned in 408. See Lynne in the main office to claim it.

GUILTY, GUILTY, GUILTY!

Are you one of the people who was unwilling to forsake your old directory for four days while you awaited a new one? Bring your old one to Rebecca and she'll see that it gets recycled.

COGS GENERAL ASSEMBLY MEETING

will be held Tuesday, November 14, 1989 at 3:15 pm in 101 Fraser. Agenda items include budget approval, the University tuition Committee, and COGS Issues Committees.

ATTENTION CIVIL SERVICE STAFF

The Departmental Civil Service Liaison Committee will meet on Friday, November 17. If you have an item you would like to bring up at this meeting, please contact one of the committee members: Jim Kurle, Sue Miller, Eric Ristau, or Tom Warnke.

DEPARTMENTAL HOLIDAY PARTY!

Mark your calendars! Tell your spouses! The party is Friday afternoon, December 15, in 306 Borlaug Hall.

WINTER SCHEDULES

are available in the main office.

MOVED? MOVING?

Don't end up in the Twilight Zone. Notify Avis Kunkel in the main office of any changes in your address.

MINNESOTA MEAL PARTNERS

Four Minnesota food companies are working with the Minn. Dept. of Ag. to generate 10,000 meals for disadvantaged Minnesotans (Gold n' Plump Poultry, New Frontier Foods, Inc., Oak Grove Dairy and Festal Vegetables). You can help! Watch your Nov. 15th Star Tribune or Dispatch. Simply clip the ads and bring them to your local grocery store. The more ads that are brought in, the more meals that are donated. Thanks!

NEW UNIVERSITY COURSES

Two new courses are not listed in the winter schedule. Agro 3010, Adaptation, Distribution and Ecology of Crops meets MWF at 10:40-11:30 am with Discussion T or W afternoons. Instructor is Steve Simmons. HSci 8940, Women in Science: Historical Perspectives meets Wednesdays from 1-3 pm. Instructor is Sally G. Kohlstedt.

GRANT MONEY!!!!!!

Information is now available on the following grants:
-1990 LISA--Proposal deadline 12/31/89, contact Ken McNamara (5-8799) for info on how to get your share of \$90,000.
-MacArthur International Internship Grants competition for 1990. For University of MN grad. and prof. students who undertake internships/supervised fieldwork experiences related to Third World issues. Info in the main office.
-International Human Rights Internship Grants. For U of MN students who undertake internships/supervised fieldwork experiences related to Human rights. \$500-3,500. Info in main office.
-CSRS Water Quality Research Awards Program in Special Grants. Info in main office.

SEMINARS THIS WEEK

Monday, November 13

Forest Resources Seminar

Valuing Wildlife: A Minnesota View
by Jeanne Holler, 3:00 p.m., 100
Natural Resources Admin. Bldg.

Plant Breeding Seminar

Utilization of Scoring Systems as
Quantitative Traits in Plant
Breeding by Daniel Basigalup, 4:00
p.m., 306 Borlaug Hall.

Soil Science Seminar

Naive 2-D Heat Flow Modeling in
Freezing and Thawing Soils by Robert
Ewing, 3:00 p.m., 375 Borlaug Hall.

Weed Science Discussion Group

Inheritance of Diclofop-Tolerance in
Italian Ryegrass by Kevin Betts and
Altered Acetyl-CoA Carboxylase in
POAST-Tolerant Corn by Lori
Marshall, Noon, 306 Borlaug Hall.

Food Science Seminar

Developing High Fiber Foods for
Human Nutrition Studies by Kim
Baglien, 4:00 p.m., Rm. 15 FScN

Tuesday, November 14

Plant Biology Seminar

Gene Expression During Fungal Spore
Germination by Robert Brambl, 4:00
p.m., 70 Biol. Sci. Center.

Insights

The History of the Christmas Tree
Ornament by Sandra Kelsey, Noon, 110
St. Paul Student Center.

American-Israel CC&I of MN, Inc.

Ancient Crops, New Technologies by
Philip Larsen and Harold Okinow,
Noon, Radisson Univ. Hotel, \$15.00.

Entomology Seminar

Virus and Vectors in North Africa by
Ben Lockhart, 3:00 p.m., 490 Hodson
Hall.

Plant Pathology Seminar

As yet untitled by German Hoyos,
4:00 p.m., 365 Borlaug Hall.

POSITION ANNOUNCEMENTS

- Research Associate, Anatomical and Physiological Relationships, Cornell University, Ithaca, NY.
- Meteorology Unit Asst. Professor, Agronomy Department, Cornell University, Ithaca, NY.
- Asst. Professor of Soils, Dept. of Agronomy and Soils, Pullman, WA.
- Research Associate, Anatomical and Physiological Relationships, Agronomy Department, Cornell University, Ithaca, NY.

Wednesday, November 15

Horticulture Seminar

The Agony and the Ecstasy of
Developing Alternative Crops by
Luther Waters, 3:00 p.m., 335
Borlaug Hall.

Agronomy Seminar

Herbicide Resistance in Plants by
Homer LeBaron, 3:00 p.m., 306
Borlaug Hall.

Ecology, Ev. & Beh. Seminar

The Mating System of the Indigo
Bunting by David Westneat, 3:30
p.m., 313 Zoology.

Horizons

International Trans-Antarctica
Expedition by Cynthia Mueller, 12:15
p.m., 351 Coffman Union.

N. Central Soil Con. Res. Lab Sem.

Row Spacing and Population Effects
on Corn Productivity by Mark
Westgate, 9:30 a.m., NCSCR Lab.

Thursday, November 16

Grad Student Colloquium

Metabolism of CGA-136872 in
Susceptible and Tolerant Corn Link
by Paul Viger and Antagonism of Wild
Oats Control with Diclofop by DPX-
L5300 by Roger Baerg, Noon, 306
Borlaug Hall.

Plant Physiology Seminar

Nitrogen Transfer in Forage Legume-
Grass Communities by Gary Heichel,
3:00 p.m., 335 Borlaug Hall.

Genetics and Cell Biology

Genetic Analysis of Membrane Protein
Topology in Escherichia Coli by
Colin Manoil, 4:00 p.m., 33 McNeal
Hall.

Forest Resources Seminar

Management Process: A Look at the
Surroundings by Dorothy H. Anderson,
10:30 a.m., 100 Nat. Res. Admin Bldg.

Friday, November 17

Health Sciences Special Programs

Today's Challenges to the American
Family by Louis Sullivan, 4:00 p.m.,
1st Floor, Coffman Union.

- Plant Systematist, Asst. Professor of Botany, Department of Botany, University of California, Riverside, CA.
- Extension Environmental Horticulturist, Nursery Crops and Assistant Plant Physiologist, Dept. of Botany, University of California, Riverside, CA.
- Agricultural Extension Specialist, National Program Leader (Agronomy), USDA, Extension Service Agricultural Programs, Washington, D.C.
- Assistant Extension Specialist, Integrated Pest Management, Minnesota Extension Service, Dept. of Entomology, U of MN, St. Paul, MN.

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

CONGRATULATIONS CROPS TEAM

The 1989, University of Minnesota - Twin Cities Crops Team (Gary Suess, Randy Vancura and Jason Baumgard) placed 6th at the American Royal Crops Contest held at Kansas City, Missouri, on Tuesday, Nov. 14. Randy Vancura placed 10th in Identification and Gary Suess placed 10th in Seed Analysis. The team will compete Saturday, Nov. 18, at the Chicago Collegiate Crops Contest. Good luck to Gary, Jason, Randy and Coach Vernon Cardwell.

FREEZER FOR FREE

Dr. Burnham has a 22 cu. foot chest style freezer which he will give away to anyone who wants. Call him at 644-7797.

NEW BABY

Joe and Nancy Spitzmueller had a baby girl on Tuesday, Nov. 14 at 6:43 p.m. She weighed 8 lbs. 4 oz. and is named Katherine. A U of M sweatshirt was given by the Flower and Gift Committee.

HOUSING NEEDED FOR 3 WEEKS

A female undergraduate student needs a place to stay for 3 weeks in December while the dormitory is closed. She works in our department and would like to continue working during the holiday season but she needs some place to stay from December 9 to December 31. She will pay rent. Call Anjeli at 624-5963.

SUPERINTENDENT INTERVIEWS

Three more candidates will be interviewing for the position of Superintendent of the Southern Experiment Station at Waseca. Each candidate will present a seminar at 10:00 a.m. on the following dates in Palmer Classroom Building:

November 21 David D. Walgenbach
Env. Affairs Coordinator
Plant Science Dept.
South Dakota State Univ.
Brookings, SD

November 27 Bradley E. Sequin, II
Interim Dept. Chair of
Large Animal Clinical Sci.
in the College of Vet
Medicine at the U of M

December 4 Richard A. Battaglia
Director of Special Projects
South Dakota State Univ.
Brookings, SD

The candidates' files are available for review in 411 Borlaug Hall.

CIVIL SERVICE RULE CHANGES

The University Civil Service Committee is accepting suggestions for changes to the Civil Service Rules. Proposed rule changes must 1) be in writing, 2) indicate which rule is to be changed, 3) indicate the change, and 4) state the reason for the change. Deadline for proposed rule changes has been extended to January 12, 1990 and should be sent by campus mail to Karen Prince, Academic Computing Services, 100 Laud CF or by electronic mail to BITNET: KPRINCE @ UMNACVX.

NORTHRUP KING AWARD

Mark your calendars. The Northrup King Faculty Awards will be presented at a ceremony on Friday, December 1 at 3:30 p.m. in 306 Borlaug Hall. Coffee and cake will be served.

NCWSS MEETINGS

The North Central Weed Science Society meetings will be held in Lexington, Kentucky from December 5-7, 1989.

DRY RUNS FOR NCWSS

Dry runs for the North Central Weed Science Society meeting are scheduled for Monday, November 27 starting at 8:00 a.m. in 408 Agronomy. Plan to attend to provide valuable critiques before the meetings.

HOSPITALIZED

Harold Scott had a heart attack last week and is in Midway Hospital. He is in good condition. Flowers were sent by the department.

FUME HOODS AND EXHAUST FANS

The fume hoods and exhaust fans in Borlaug Hall will be shut down for about 15 minutes each for servicing between November 20-22 or 27-29.

PAYROLL DEDUCTION FORMS

I have just received a supply of the payroll deduction gift authorization forms. These forms are to be used when making contributions (gifts) to the U of M and programs supported through the University of Minnesota Foundation. Please see me if you are interested.

ST. PAUL CAMPUS COUNSELING

The St. Paul Office of University Counseling Service offers counseling groups for men and women dealing with family issues; for women; for men; and for older men and women students, graduate students, returning students and adult specials. Contact Tania in Room 190 Coffey Hall or call 625-3115.

FACULTY MEETING

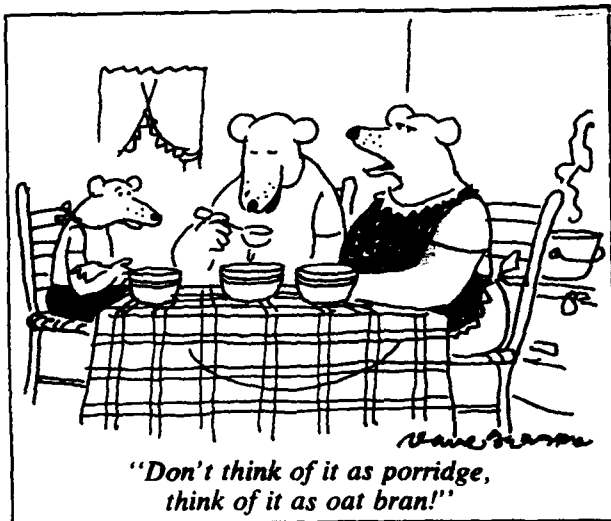
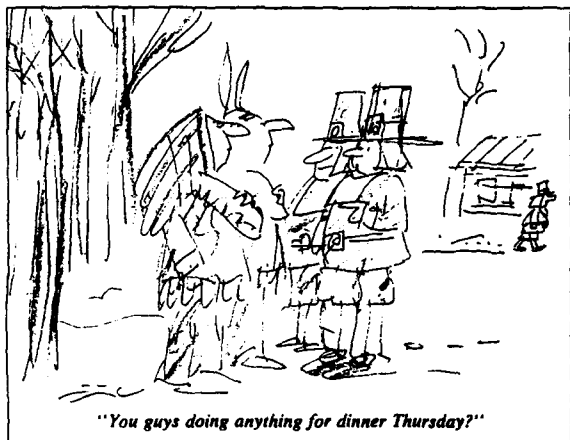
Faculty: Mark your calendars. There will be a faculty meeting on November 27 at 1:30 p.m. in 306 Borlaug Hall.

RECYCLING INFORMATION

Do not put the following items into the recycling barrel in the xerox room: photocopy paper wrappers, envelopes, newspaper, green bar computer paper, and bound materials (like directories). Also, to recycle corrugated cardboard boxes remove contaminants such as styrofoam and plastic packing materials and plastic labels. Place boxes separate from other recyclable paper.

M.S. THESIS DEFENSE

Amy Zins will return to defend her M.S. Thesis on Wednesday, November 22 at 1:00 p.m. in 306 Borlaug Hall. The title of her thesis is "Effect of Alfalfa Roots on Movement of Atrazine and Alachlor through Soil."



SEMINARS THIS WEEK

Monday, November 20

Plant Breeding Seminar

Quantitative Trait Variation Induced by Tissue Culture.

Frantz Clotaire in 306 Borlaug at 4:00 p.m.

Forest Resources Seminar

Decentralization of State Control over Management of India's Forest Lands.

Joan Nichols in 100 NRA building at 3:00 p.m.

Food Science Seminar

Analysis of lactose plasmids of lactococcal species.

Joellen Feirtag in 246 FScN at 4:00 p.m.

Soil Science Seminar

At the junction of two or more maps (Field Marshall Bill Slim)

Jim Swan in 375 Borlaug Hall at 3:00 p.m.

Tuesday, November 21

Plant Biology Seminar

Characterization of floral-specific gene expression in tomato Rm 70 BioScience at 4:00 p.m.

Plant Pathology

Moisture variability of individual seeds of soybeans and its effect on storability.

Flavio Lazzari, in 365 Borlaug Hall at 4:00 p.m.

Special Seminar

Colorado Weed/Corn Bioeconomic Model

Dr. Ed Schweizer and Dr. Lybecker, USDA-ARS, Crops Research Laboratory Fort Collins, Colorado, in 306 Borlaug Hall at 9:00 a.m.

POSITION ANNOUNCEMENTS

- Associate Continuing Education Specialist and Dept. Director- Office of Information Systems, CEE, U of M, Minneapolis.
- Asst. Prof. of Soil Chemistry, The Univ. of Tennessee, Dept. of Plant and Soil Science in Knoxville, TN.
- Soil Microbiologist/Soil Biochemist, Univ. of Kentucky, Dept. of Agronomy, Lexington, KY.
- Corn Breeder/Research Station Manager for their Lisbon, Iowa location. Plant Science Research, Inc., Minnetonka, MN.
- Research Specialist (50% time), Horticulture Science, U of M, St. Paul.
- Asst. Prof. of Agronomy, Virginia Polytechnic Institute, Blacksburg, VA.
- Soil Scientist, USDA-ARS, Southern Plains Area, Big Spring, Texas

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

DEATH

Harold Scott died on Wednesday evening. Harold was Senior Plot Supervisor for our department for many years. The funeral will be Monday at the Holy Spirit Church in St. Paul. Check the newspaper for details.

CONGRATULATIONS GARY

Gary Heichel was recommended for promotion to supergrade rank GS-16 by recent action of an ARS Research Personnel Evaluation Committee. Congratulations.

NEW BABY

Eric and Trish Jellen had a baby boy on Wednesday, November 22. They've named their new baby Nathan. A U of M sweatsuit was provided by the flower and gift committee.

NOTE FROM DR. BURNSIDE

Delores Burnside recently underwent a CAT scan and her liver tumors have "stabilized" since June. She will continue to receive chemotherapy 6 days per month. We will be unable to have our open house this Christmas. Delores and Orvin

PH.D. THESIS DEFENSE

Andrew McCullough will present a seminar on his Ph.D. thesis work on Monday, December 4 at 9:00 a.m. in 306 Borlaug Hall, "Molecular Analysis of Amyloplast Biogenesis in Developing Maize Endosperm."

M.S. THESIS DEFENSE

Deborah Muenchrath will present a seminar on her M.S. thesis work on Tuesday, December 5 at 9:30 a.m. in 306 Borlaug Hall, "Detection of Maize Lines with Amino Acid Profiles."

STUDIO WARMING

Dr. Burnham's daughter, Sarah Burnham Mertz, will hold an open house for her new studio in their home at 1539 Branston St. (St. Anthony Park) on Sunday, December 3, from 1-8 p.m. Sarah is a painter and print-maker. Her work (paintings, prints, and handmade paper pieces) will be on display. Come and see the processes involved in making a print. Her studio is equipped with a 27 x 48" bedplate etching/lithography press. Sarah will teach classes in etching, drawing, printmaking, rendering, painting and life drawing. Contact her at 644-7797 for further information.

PEACE CORPS SEMINAR

The Peace Corps will hold an information seminar on overseas opportunities for people with strong backgrounds in any area of agriculture or forestry on Wednesday, December 6 at 7 p.m. in the Old Federal Building at 3rd Ave. S. & Washington Ave. in Downtown Minneapolis. Call 334-4040 for details.

THANK YOU

Heidi and Shawn Kaeppler had a baby girl on November 19. Dear Friends in the Agronomy Department; Thank you so much for the great little sweatsuit. Katie can't wait to put it on along with her little Nike "scooter" running shoes so she can start tearing up the roads (or at least the play pen!). Mom, Dad, and baby are doing fine and adjusting quite well to "family life". Thanks again for the cute and useful gift!

Heidi, Shawn, and Katie Kaeppler

THANK YOU

Thanks so much for the Minnesota sweatsuit. We are all at home now adjusting to each other and the suit may come in especially helpful for Katherine on those nights when she would rather play than sleep. Thanks again.

Joe, Nancy, and Katherine Jo Spitzmueller

ROTOR INSPECTION/MAINTENANCE

Du Pont Sorvall invites you to bring your rotors for a free expert examination on Monday, December 4 from 9 a.m. to 3 p.m. in the Bioscience Building, Room 260. You can also enter to win a free Microspin 12S Centrifuge (one entry per rotor brought for inspection). Also, ask about a maintenance inspection of your superspeed or lowspeed centrifuge for a limited time, price of \$85.00 (regularly \$225). Please be sure your rotors are clean and free of biological and radiological contamination.

NORTHRUP KING AWARD

The Northrup King Faculty Awards will be presented at a ceremony today at 3:30 p.m. in 306 Borlaug Hall. Coffee and cake will be served.

NEW COMPUTER COORDINATOR IN COA

Linda Jorn will join the COA staff as the new Coordinator for Instructional Computing on December 1. She will be officed in 310 Alderman Hall; her phone number will be 625-2780. She will teach the Agri 1200 course - Computers in Your Profession (beginning winter quarter).

CANDIDATES SEMINARS IN PLANT PATH

Plant Pathology will be interviewing candidates for the position of Assistant Professor, Epidemiology/Ecology of Plant Disease. Everyone is welcome to attend the seminars:

Dr. Leonard Francl - December 4 at 11:00 a.m. in 365 Borlaug Hall. "Epidemiology of Potato Early Dying."

Dr. William Pfender - December 7 at 11:00 a.m. in 365 Borlaug Hall.

Dr. Linda Kinkel - December 18 at 11:00 a.m. in 365 Borlaug Hall.

Dr. Andrew Jarosz - December 21 at 11:00 a.m. in 365 Bolaug Hall.

CONGRATULATIONS TO JOHN AND AMY

John Leif and Amy Zins successfully defended their M.S. theses this week. Congratulations.

RETIREMENT

Martha Malloy will retire from the USDA on December 31, 1989. A retirement banquet will be held in her honor on December 6 at Miller's Cedarwood Restaurant at 6:30 p.m. Contact Jan Overton in 40 North Hall to make reservations.

CARS INSIDE FOR WINTER

Tom Warnke has moved the department vehicles into the east end of the Crops Research Building for the winter.

NEW ADDRESS

Busch Agricultural Resources has a new address: P.O. Box 8306, 3515 East County Road 52, Fort Collins, CO 80524; Phone number (303) 221-5622.

TURKEY RAFFLE OUTCOME

Thanks to the Grad Club for another excellent sloppy joe day and turkey raffle. Gregg Pioske won the 27 lb turkey and Perry Miller won the 12 lb turkey. The club raised approximately \$185 from the event.

POSITION ANNOUNCEMENTS

- Postharvest Physiologist (Asst. or Assoc. Pomologist/Specialist) for the Kearney Agricultural Center, U of Calif, Palier, CA.
- Forage Agronomist and Cereal Breeder (two positions) for the USAID/MIAC Dryland Ag. Research Project in Morocco, through the University of Nebraska, Lincoln.
- Research Association to work on Population Genetics and Modelling, Ph.D. is required, Dept. of Plant Science, Univ. of Manitoba, Canada.
- Soybean Breeder, University of Missouri, Dept. of Agronomy, Columbia, MO.
- Research Associate to work in soil fertility, Louisiana State University - Ag. Experiment Station, Baton Rouge, LA.
- Instructor, Soil Science Department, North Carolina State University, Raleigh, NC.
- Internships with Rodale Research Center in Regenerative Agriculture, Kutztown, PA.

NEW COURSES FOR WINTER QUARTER

Plant Pathology will offer a course on Biochemistry and Molecular Biology of Fungi for winter quarter 1990 (PLPa 5109). The course will be taught by Robert Brambl.

A multidisciplinary seminar in landscape ecology will be taught during winter quarter. Register for either EBB 8390 or LA 8390 (1 cr. on Thursday from 11-12:30 p.m. in 108 Zoology). The course will be taught by John Tester (EBB) and Joan Nassauer (LA).

EMERGENCY CLOSING POLICY

The University policies and procedures on emergency closing will be posted in Borlaug Hall and Crops Research. Please note the University is very rarely closed for snow emergencies.

ATTENTION FOREIGN NATIONALS

All eligible foreign national employees should complete new tax treaty forms for calendar year 1990. Forms 8233 and tax treaty affidavits must be turned in to the payroll office by December 28, 1989, for biweekly payroll, and December 29 for regular payroll to ensure that their wages will not be taxed. Tax money that is withheld will not be refunded through the payroll department. See Avis for forms.

WANT TO GIVE A SEMINAR IN MORRIS?

The North Central Soil Conservation Research Laboratory in Morris, Minnesota, is putting together their seminar schedule for winter. They have open dates in February and March and would welcome conservation related discussions by people from our department.

AAAS FELLOWSHIP OPPORTUNITIES

The American Association for the Advancement of Science offers fellowships for scientists and postdocs to work in Washington, D.C., in the areas of public policy as they relate to science and technology. See the notice posted on the bulletin board outside 411 Borlaug Hall.

SEMINARS THIS WEEK

Monday, December 4

Plant Breeding Seminar

Assessment of Anther Culture as a Plant Breeding Tool.
Steve Plehn in 306 Borlaug Hall at 4:00 p.m.

Forest Resources Seminar

River Recreationists and Land Owners: Preferences for a High Quality Environment.
David Lehman in 100 NRA building at 3:00 p.m.

Thursday, December 7

Special Seminar

The Rural Landscape and the 1990 Farm Bill: Why Minnesota Professionals and Citizens Should Care.
Joan Nassauer, in 33 McNeal Hall at 7:00 p.m. Ms. Nassauer is Chair of the Legislative Steering Committee of the American Society of Landscape Architects Rural Landscape Committee.

PMGI Discussion Group

"Expression of Ac and its derivatives in tobacco" by Dr. Min-Gang Li,
and

"Expression of tubulin genes of Arabidopsis: Summary of Progress to Date" by Dr. Peter Snustad, in 239 Gortner Labs at 12:00 (noon).

Plant Physiology Seminar

How do plants turn over protein?
Richard Vierstra, Dept. of Horticulture, U of Wisconsin, in 335 Borlaug Hall at 3:00 p.m.

Agronomy Gleanings

December 8, 1989

MIW
9/29/86



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

THANK YOU

Thank you so much for the sweatsuit for Nathan. He says he loves it and can't wait until he's big enough to wear it out on the town. Nathan, Trish and Rich Jellen

HOSPITALIZED

Scott Twary was hospitalized for knee surgery this week. Flowers were sent by the department.

NOTE FROM JUDY

Travel advances and travel expense reimbursements will be handled through the new Accounts Payable/Purchasing System as of January 1, 1990. This change allows reimbursement checks to be issued more promptly.

With the availability and convenience of traveler American Express cards, the business office is asking that cash advances be discouraged. For those circumstances when they are needed, please submit your request **AT LEAST 10 WORKING DAYS BEFORE THE TRIP DATE**. Travel advances will be mailed to the traveler's home on the fifth working day before the trip start date. **PLEASE NOTE THAT EFFECTIVE JANUARY 1, 1990, SAME DAY ISSUANCE OF TRAVEL ADVANCES AND REIMBURSEMENTS WILL BE DISCOUNTED.**

Another travel change. As of 12/1/89, the mileage on personal vehicles is reimbursed at 25.5 cents per mile.

MISSING WALLET

Debo Olaoye has lost a blue wallet. If anyone finds it please bring it in to the main office. Thank you.

CHRISTMAS DECORATIONS

University regulations will not allow us to pay for wreaths, christmas trees, etc. with our budgeted monies; therefore, we would appreciate small donations from any of you that are enjoying the christmas decorations. Please give your donation to Avis.

SPECIAL SEMINAR

John Velin, Director of LCMR, will present a seminar on "LCMR Grants and Issues" on Monday, December 18 at 3:30 p.m. in 335 Borlaug Hall. Come and learn more about LCMR grant proposals, etc.

PARTY! PARTY! PARTY!

The Agronomy Department Christmas Party will be Friday, December 15 from 4-6 p.m. in 306 Borlaug. We're having hot and cold hors d'oeuvres and lots of fun. Bring a guest. A donation of \$3.00 per person will be accepted by Muriel in 411 Borlaug by December 13.

NORTHRUP KING AWARD WINNERS

Steve Simmons (education) and Donald Barnes (research) received the Northrup King Outstanding Faculty Awards on December 1. Congratulations to these two very deserving faculty members.

NEW CLASS FOR WINTER QUARTER

Plant Pathology will offer a new course for winter quarter, PLPA 8090 or PLPA 3090, Agricultural Chronobiology. The class will be informal and will emphasize analysis of the "time-of-day" effect in research and production procedures in agriculture, time-related phenomena in biological systems and the fundamentals of a classical approach to time sequencing of experiments and data processing. Friday's 1255-1350 in 365 Borlaug Hall.

ADDRESS CHANGES

If you know of address changes for former grad or undergrad students please give them to Lynne Medgaarden in 411 Borlaug.

RECEPTION FOR DICK ANDERSON

The Agricultural Experiment Station will hold a reception for Richard H. Anderson, 3-5 p.m., December 14 in the Worldspan Room of the Student Center. Richard Anderson has been the Superintendent at the Southern Experiment Station in Waseca for 19 years.

NEW GRADUATE PROGRAM

A new graduate program has been approved for the Plant Biology program. This will replace the old Plant Physiology program, eventually. Dr. Carroll Vance, DGS of the Plant Physiology graduate program, is asking for qualified faculty to volunteer to serve on committees in the new program.

POSITION ANNOUNCEMENTS

- Research Associate, Dept. of Forest Resources, University of Minnesota, St. Paul.
- Associate Professor or Professor, Integrated Plant Protection Coordinator, College of Agricultural Sciences, Oregon State University, Corvallis, OR.
- BS/MS/PhD Researches, Postdoctoral candidates, Research Biologist I-III, Crop Transformation Group, Monsanto Company, St. Louis, MO.
- Molecular/Cell Agronomist, Dept. of Plant and Soil Science, Southern Illinois University at Carbondale, Carbondale, IL.
- Seed Certification Manager, Montana Seed Growers Association, Plant and Soil Science Dept., Montana State University, Bozeman, MT.
- Research Specialist Position, Dept. of Forest Resources and Dept. of Horticulture Science, University of Minnesota, St. Paul, MN.

COOKIE PARTY

The Office Staff in Agronomy invites you to join them for cookies, coffee and cider on Wednesday, December 20 in the main office. Stop by any time and share Christmas goodies.

NEW PLANT BREEDING FACULTY

Horticulture has a new faculty member who is also a member of the Plant Breeding Faculty, Mark S. Stefeler.

CAREERS WITH MONSANTO

Dr. Danny Gigax and colleagues from Monsanto Company will be here on January 18, 3-4 p.m., in Room 306 Borlaug Hall to give a presentation on career opportunities in Crop Protection, Chemical Research and Sales with Monsanto. This will be an excellent opportunity for students and faculty to become better informed about the opportunities with industry. Refreshments will be provided.

Definition of a windshield scraper: A plastic gadget that keeps falling out of the glove compartment all summer, hides under the seats in the winter, and breaks when you finally need to use it.

• • •

Tact is the ability to make guests feel at home when you wish they were.

ENDOWED FELLOWSHIPS AVAILABLE

Graduate Students please note these fellowship opportunities through the Graduate School:

* Alexander P. Anderson and Lydia Anderson Fellowship for students who have completed a B.S. or M.S. at the U of M by the end of Spring Quarter 1990 and are graduate students in 1990-91 in the plant or animal sciences. Preference will be given to students involved in basic research. This fellowship is for study or research in summer or during academic year. (Three awards of up to \$1500 each).

* Louise T. Dodsall Fellowship in Science for women graduate students in any field of the natural and physical sciences who show exceptional promise for a successful in research. (Two awards of \$9,000 plus tuition).

* Women's Club of Minneapolis Fellowship for women graduate students with high scholarship and leadership qualifications. Must be a U.S. citizen. Preference will be given to applicants from the Twin Cities. (One award of \$2200).

Check the bulletin board for details and deadlines on these fellowships.

CUSTOM PICTURE FRAMING

Vicky Mackerman and her husband will do custom picture framing in their home. Call 624-0763 or 645-7753 for information.

MUCIA PH.D. DISSERTATION GRANTS

The Midwest Universities Consortium for International Activities, Inc. will offer dissertation research grants to support doctoral dissertation research on developing countries by doctoral candidates at MUCIA institutions. Check the bulletin board for information or call Delane Welsch or Joan Darrell at 624-3221.

SEMINARS THIS WEEK

Monday, December 11

Weed Science Discussion Group

The mechanism of differential tolerance to CGA-136872 among corn inbreds.

Paul Viger in 306 Borlaug Hall at noon.

Genetics and Cell Biology

Department Head Candidate Seminar "RNA-Protein interaction in post-transcriptional gene regulation"

Joe B. Harford, Cell Biology and Metabolism Branch NICHD, National Institutes of Health, Bethesda, MD
Owners: Preferences for a High in 33 McNeal Hall at 3:30 p.m.

MW
A.80

December 15, 1989

Agronomy Gleanings



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

THANK YOU

Thank you for all your care and concern. The poinsettia added a bright, festive touch to my hospital stay. The operation was a success and I'm on the long road to recovery. I should be ready for the grid iron by next fall. Thanks
Scott Twary

THANK YOU HAROLD SCOTT FAMILY

Thanks to all for the flower arrangement. Flowers were in fall tones with glads, daisies and pompoms. He always wanted to keep in touch with the Agronomy Department. He enjoyed getting the newsletter every week and especially for that year end booklet. He knew a few of the people whose names were there and he was very happy about it. Thanks for being his friend all the years since his retirement.
Catherine Scott

NEW BABY

Baffour Asafo-Adjei and Juliana Adjei had a baby girl six weeks ago. Congratulations. A U of M sweatshirt was given by the flower and gift committee.

PH.D. THESIS DEFENSE

Baffour Asafo-Adjei will give his thesis defense on Thursday, December 21 at 9:00 a.m. in 306 Borlaug Hall. The title is: "Evaluation of exotic soybeans for favorable agronomic alleles absent in adapted local lines."

MISSING STATVIEW MANUAL

The Statview manual has been removed from the computer room. Please return it. Manuals are used by many people and should not be removed from the computer room.
Computer Room Committee

PARTY! PARTY! PARTY!

The Agronomy Department Christmas Party will be today, Friday, December 15 from 4-6 p.m. in 306 Borlaug. Plan to come. You can still sign up if you forgot earlier.

PESTICIDE FACILITY PLANS

The latest drawings and cost estimates for the Pesticide Facility are available in 411 Borlaug Hall. Faculty and staff are invited to comment to Becker, Stuthman or Burnside.

CAST MEMBERSHIP

Anyone interested in becoming a member of CAST, Council for Agricultural Science and Technology, or in ordering CAST publications should see Lynne in 411 Borlaug Hall for details.

SINGLE-QUARTER LEAVE APPLICATIONS

Single-quarter leave applications for the 1990-91 fiscal year are due on January 24 to Shelly Diment in the College of Ag. office.

MEDIA INTERVIEW PRACTICE SESSION

Faculty - How would you like to sharpen your skills at giving media interviews? Dani O'Reilly, Public Relations Leader for the Minnesota Extension Service, and Marty Moen are offering 60 minute sessions on what to say and how to say it most effectively. This session will include a brief (2-3 minutes) on-camera interview and critique, followed by a discussion on the principles of a good interview. A second interview and critique will conclude the session. Sessions are still available on the following days: Dec. 12, 13, 18, Jan. 10, 16, 24, 31, Feb. 6, 7, 13 and 14. Call Dani O'Reilly at 625-4715 to make an appointment.

FIRE ALARM TESTING

The Borlaug Hall fire alarms will be tested on December 28 and 29. The alarm horn will sound during the test starting at 10:00 a.m. each day.

IAFHE VICE PRESIDENT SEARCH

Three finalists have been selected in the search for a Vice President of the Institute of Agriculture, Forestry, and Home Economics. These three will give seminars on the following dates. C. Eugene Allen - December 20 at 3:15 in the St. Paul Student Center Theatre, reception follows. He will discuss Land-Grant Institutions in the 1990's.

Gregory Brown - January 8 at 3:15 p.m. at the SPSC Theatre, reception follows.

James Zuiches - January 18-19. Schedule not yet finalized.

\$500 MILLION NEW INITIATIVE

We have received a copy of "Investing in Research: A proposal to strengthen the agricultural, food, and environmental system" by the Board on Agriculture, National Research Council. This is a \$500 million new initiative. See Lynne in 411 Borlaug Hall if you would like to look at this book.

FAX NUMBER AT LAMBERTON

The Southwest Experiment Station at Lamberton now has a FAX machine, no. 507-752-7374.

COMMUNITY CAMPAIGN RESULTS

The 1989 University Community Campaign resulted in an increase over last year's total contributions: 1988 total was \$580,612; 1989 total was \$705,475.

SEMINARS THIS WEEK

Monday, December 11

Weed Science Discussion Group
Research on Milkweed Control
in Wheat - Tom Fry
Research on the Use of Cover
Crops for Weed Control -
Rob DeHaan in 306 Borlaug Hall
at noon.

COOKIE PARTY

The Office Staff in Agronomy invites you to join them for cookies, coffee and cider on Wednesday, December 20 in the main office. Stop by any time and share Christmas goodies.

POSITION ANNOUNCEMENTS

- Research Specialist in the area of conifer tissue culture at the U of M, Dept. of Forest Resources.
- Associate Dean for Academic Programs for the College of Agriculture, Iowa State University, Ames, IA.
- Head/Professor of Agronomy, Iowa State University, Dept. of Agronomy, Ames, IA.
- Program Leader-Community Economic Development, Minn. Extension Service, St. Paul.

FUNDING REQUESTS - WHEAT COUNCIL

The Minnesota Wheat Research and Promotion Council will meet January 30 to consider funding of continuing and new research projects for 1990-91. The Council is interested in production, marketing or utilization research which will enhance the wheat growers and industry in Minnesota. In order for the Council to consider projects they need to have funding proposals submitted to them by January 18. For format guidelines in preparing a proposal see Lynne in 411 Borlaug Hall.

Agronomy Gleanings

December 22, 1989



DEPARTMENT OF AGRONOMY & PLANT GENETICS



University of Minnesota, St. Paul

THANK YOU NOTE

To friends in Agronomy: Thank you for the thoughtful flower arrangement that added beauty to my father's funeral. His life's work consisted of the wise use of crops and animals, farming with grace and humor. Duane Schreiber, Elinor Hsu, Theresa, Daniel

HOLIDAY GREETINGS

Holiday Greetings and Best Wishes to the Department from H.W. Johnson in "sunny Arizona".

UNIVERSITY HOLIDAYS

University offices will be closed Monday, December 25th and Tuesday, December 26th, and Monday, January 1, 1990. Winter quarter classes begin Tuesday, January 2, 1990. We will also be closed Monday, January 15, 1990, for Martin Luther King's Birthday. Have a safe holiday season.

THANK YOU

Thanks alot for the nice baby outfit for our daughter. We very much appreciate your kind gesture and we are sure our daughter will like very much to wear it and it will be a great Minnesota souvenir for us.

Thank you very much.

Baffour, Julie & Abena

OPEN FORUM - REGENTS MEETING

Individuals wishing to speak at the Board of Regents' meeting in January may write or call (5-6300) the Regents' Office, 220 Morrill Hall, U of M, Minneapolis, MN 55455.

PUBLICATIONS NUMBERS UP

The number of refereed publications submitted for review in the Department during calendar year 1989 versus 1988 has increased by 52%. This number of refereed publications is an all time high for the department and it has occurred even after seven years of annual reductions of "hard" money support to the department. The faculty has been able to accomplish this increased output largely by competing successfully for competitive grants and thus expand rather than reduce their research and education programs. This is just one example of departmental productivity, but it shows the dedication and productivity of our faculty, staff, and graduate students. Congratulations on a job well done, and enjoy the upcoming holiday season.

NOTE FROM BURNSIDE

I continue to be impressed with the dedication, cooperativeness, and productivity of our agronomy group as I watch our overall program and your individual activities expand each year. The agricultural community in greater Minnesota also recognizes and appreciates your many contributions to their productivity and competitiveness while safeguarding the environment. Delores and Orvin Burnside wish the faculty, staff, and students in the department a happy holiday season and a joyous 1990.

CONGRATULATIONS TO BRENT & AMY

Brent Delzer is getting married on December 30. Congratulations to him.

POSITION ANNOUNCEMENTS

- Natural Resource Analyst with the South Dakota Department of Agriculture, Division of Conservation, Pierre, SD.
- Research Associate with Calgene, Inc., Memphis, TX.
- Associate Plant Breeder with Calgene, Inc., Davis, CA.
- Alfalfa Agronomist with Calgene, Inc., Davis, CA.
- Product Development Specialist, Calgene, Inc., Davis, CA.

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

CIVIL SERVICE LIAISON COMMITTEE

The Civil Service Liaison Committee will meet on January 3rd. If you have items you would like them to discuss please give them to Jim Kurle, Sue Miller, Eric Ristau or Tom Warnke

RECYCLING REMINDER

Recycle your old 1989 desk calendars.

FACULTY COLLOQUIUM

Faculty it is not too late to get your registration form in for the faculty colloquium planned during winter quarter. The colloquium involves a brief, informal discussion of current research during the noon hour (20 minutes). If you want to participate give your notice to Hakima Bahri or Dave Gebhardt by Friday, December 29. Indicate your schedule preferences.

COMMUNITY CAMPAIGN FOR 1989

The Community Campaign on the St. Paul Campus for 1989 was a success. As of November 17, total campaign contributions were \$705,475, an increase of \$124,863 over last year's contributions. The Agronomy Department had 70% participation with 35 out of 50 cards returned. Only two other departments in the COA had a higher participation rate. The total dollars raised by the department were \$4,801.00. Thanks for your help and special thanks to Avis Kunkel for acting as coordinator of this effort. Orvin Burnside

FACULTY MORTGAGE PROGRAM

The University is continuing the Faculty Mortgage Program for offering home mortgages at below market rates to qualified academic staff. This includes tenured and tenure-track faculty and academic professional staff holding probationary or continuous appointments. The mortgage company handling this program is Metropolitan Financial Mortgage. Please note that the University does not guarantee that eligible applicants will qualify for a mortgage. Each applicant must qualify under Federal National Mortgage Association (FNMA) guidelines. Interested persons should contact Norma Peterson, Academic Personnel at 624-0880, for more details.

GRANTS, GRANTS, GRANTS

We have received several notices of grants from Signe Betsinger in the Ag. Experiment Station. I will list the grant here and if you want more information check with Avis in 411 Borlaug or call Elsa Batica in the Experiment Station for application forms.

● **CSRS, USDA-ARS - Midwest Water Quality Research Initiative Management Systems Evaluation Areas.** The primary focus of this program is to evaluate our ability to enhance water quality through use of appropriate agricultural practices. Deadline: January 29, 1990.

● **Minnesota Board of Water and Soil Resources** requests proposals for Environmental Agriculturalist Education Contracts. These proposals should develop and/or promote agricultural practices which protect our ground water and other natural resources. Projects which are funded must result in product(s) which provide a direct educational benefit to agricultural producers. The Board has been authorized to spend a total of \$400,000. They are encouraging both large and small projects proposals. Deadline: January 15, 1990.

● **National Science Foundation** - is seeking applications for research planning grants and career advancement awards for women. Women who have not served as principal or coprincipal investigator on a federally funded scientific or engineering research project may apply for planning grants. Women with prior research experience are eligible for career advancement awards. Planning grants are up to \$12,000 for one year. Career advancement awards at up to \$50,000 for one year, plus \$10,000 for equipment. Deadline: January 15, 1990.

● **Bedding Plants Foundation, Inc.** is seeking research proposals from horticulturalists and researchers in related sciences. Deadline: May 1, 1990.

● **USDA** is accepted proposals for **Rangeland Research Grants for 1990.** Deadline: February 5, 1990.

● **French Ministry of Foreign Affairs,** through the Chateaubriand Scholarships, sponsors visits of 6 to 18 months by young scientists to French laboratories. The program is for doctoral students and postdoctoral fellows from the U.S. who have completed their degrees within the past three years. Deadline: January 31, 1990.

HORTICULTURE DEPARTMENT HEAD

The Dept. of Horticulture will be interviewing four candidates for the position of Department Head:
Dr. Jerry Cohen, seminar at 3 p.m. on January 9; Dr. Gary Gardner, seminar at 3 p.m. on January 18; Dr. Charles Johnson, seminar at 4 p.m. on January 23; Dr. Wyane Loescher, seminar at 3 p.m. on January 30. More details and a final schedule will be available through the main Horticulture office.

MAST STUDENTS

This year's MAST students will be taking classes during winter quarter. The MAST program will host an open house for the new students on Wednesday, January 10 from 1-2:30 p.m. in the lower level lounge of the St. Paul Student Center. As you know MAST students are international students who come to the U.S. and live with a farm family for several months and then attend the U of M for one quarter. Please make these students feel welcome in our department as they add to our understanding of international agriculture.

UROP HANDBOOK

A copy of the Instructional Resources Handbook for 1989-90 and the Undergraduate Research Opportunities Program for 1988-90 are available for use from Lynne in 411 Borlaug.

SINGLE-QUARTER LEAVE APPLICATIONS

Single-quarter leave applications for the 1990-91 fiscal year are due on January 24 to Shelly Diment in the College of Ag. office.

IAFHE VICE PRESIDENT SEARCH

Two more finalists for the Vice President of the Institute of Agriculture, Forestry, and Home Economics will give seminars:
Gregory Brown - January 8 at 3:15 p.m. at the SPSC Theatre, reception follows.
James Zuiches - January 18-19. Schedule not yet finalized.

SEMINARS THIS WEEK

Thursday, Jan 4

Special Plant Biology Seminar
Assistant Professor Candidate
Tassel Development in Maize
Erin Irish, Postdoctoral Fellow
Dept. of Biology, Yale Univ.
in 306 Borlaug Hall at 9:35 am

Monday, Jan 8

Special Plant Biology Seminar
Assistant Professor Candidate
Morphogenesis of Tobacco Explants
and the Effects of Oligosaccharins
Debra Mohnen, Sr. Postdoctoral Research
Associate, Univ. of Georgia,
in 306 Borlaug Hall at 9:35 am

POSITION ANNOUNCEMENTS

- Forage Specialist and Cereal Breeding with MidAmerica International Agricultural Consortium. These positions are in Morocco. See Don Rasmusson for details.
- Dean of the College of Agriculture, Montana State University, Bozeman, MT.
- Nursery Specialist in the Ornamental Horticulture and Landscape Design Dept. at the University of Tennessee, Knoxville, TN.
- Associate Plant Breeder with Calgene, Inc. in Davis, CA. Alfalfa breeding.
- Alfalfa Agronomist with Calgene in Davis, CA.
- Lecturer, Geographic Information Systems, Cornell University, Ithaca, NY.

ATTENTION GRADUATE STUDENTS

Graduate Students - As you near completion of your degree plan to have your portrait taken at the Photo Lab for the board in 306 Borlaug Hall. Don't wait until the last minute when time runs out. Call the Photo Lab at 4-6773 to make an appointment then go see Judy Slyter in 406 Borlaug Hall to obtain a form with the budget number on it. Thanks.

CAREERS WITH MONSANTO

Dr. Danny Gigax and colleagues from Monsanto Company will be here on January 18, 3-4 p.m. in 306 Borlaug Hall to give a presentation on career opportunities in Crop Protection, Chemical Research and Sales with Monsanto.

A boy is grown up when he walks around a puddle.

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

LOST AND FOUND ITEMS

We have some things in our lost and found that may belong to you:
1 pair of men's black gloves
1 pair of men's brown suede gloves
1 Texas Instruments calculator
1 Panasonic tape recorder
Come to 411 Borlaug Hall if you think any of these things may be yours.

ACCIDENT

Mike Boehlje, the Department Head of Ag. and Applied Economics, was injured in a car accident on Wednesday, Jan. 3. He suffered extensive injuries and is in Hennepin County Medical Center. You may send cards to Prof. Michael Boehlje, Hennepin County Medical Center/SICU-1, 701 Park Ave. S., Minneapolis, MN 55415.

FACULTY COLLOQUIUM

The Faculty Colloquium will consist of a series of 6 one-hour sessions, at noon on Fridays in Room 306 Borlaug Hall. There will be two presentations per session (30 minutes per person).

- Jan. 19 Rasmusson and Crookston
- 26 Putnam and Ehlke
- Feb. 2 Gengenbach and Rines
- 9 Barnes and Orf
- 16 Busch and Vance
- 23 Stuthman and Phillips

Specific titles will be advertised soon. The presentations will be informal. Questions and discussion are encouraged. Students, staff, and faculty are invited. Please mark your calendar.

CALENDARS AVAILABLE

We have several calendars for 1990 available in 411 Borlaug Hall. Pick one up in the mail room.

GRAD CLUB MEETING

The winter quarter Agronomy Grad Club meeting is scheduled for 3:30 p.m. on Friday, January 12 in Room 306 Borlaug. Please plan to attend. As always, refreshment will be provided.

STUDENT/ADVISOR RECEPTION

The Science in Agriculture Major will hold a Student/Advisor Reception on Monday, January 8 at 3 p.m. in 306 Borlaug Hall. All Science in Ag. students, advisors, and other faculty are invited to attend an informal reception to kickoff winter quarter. Refreshments will be served.

NEW STUDENTS

We have four new grad students in the department this winter quarter. Jesus Marquez will be working toward a Ph.D. with Don Barnes. Jesus is originally from Mexico and has recently completed his M.S. at New Mexico State University. He will be officed in 306 Agronomy.

Martin Fabrizio will be working toward the M.S. with Steve Openshaw. Martin recently completed his B.S. at Kansas State University. His office is 306 Agronomy.

Sister Esther Nickel has returned to the department to work toward a Ph.D. with Kent Crookston. She will be in 200 Agronomy.

JoAnn Carlson has joined Don Wyse's project to work toward the M.S. JoAnn completed the B.S. at the Univ. of Wisconsin at River Falls. Her office is 313 Agronomy.

Please make these new students feel welcome to the department.

H.K. HAYES AWARD WINNER

Lori Marshall has been selected as this year's H.K. Hayes Graduate Student Award recipient. The award is based on scholarship, research competency, and leadership. Presentation of the award will be at the H.K. Hayes Memorial Lecture on April 2. Congratulations Lori.

CHANGE IN EXPRESS MAIL CARRIER

The University has a new contract for express mail delivery. From now on we will use Federal Express rather than Emory/Purolator. If you wish to send something you must get a contract release order from Judy Slyter in order to get the U of M discount.

FACULTY ASSIGNMENT IN UGANDA

Delane Welsch has notified us of a two-year faculty assignment available in Uganda. The assignment is through the Manpower for Agricultural Development project in Uganda. The position will be Ag. Research Advisor to the head of the research division of the Ministry of Ag. in Uganda. The project is funded through USAID. For more information see Lynne in 411 Borlaug Hall.

PLANT PATHOLOGY FACULTY CHAIR

The Department of Plant Pathology has reached their goal to fund an Endowed Chair for Disease Resistance Breeding in Cereal Crops.

LCMR PROPOSALS

For people planning to apply for LCMR grants: 1) A one page outline of all LCMR proposals is due Thursday, January 18 to Rama Murthy's office with a copy to Signe Betsinger in the Ag. Exp. Station. 2) LCMR will not accept proposals without a BA-23 form. 3) The LCMR deadline for applications is Friday, Feb. 16, 1990 by 4:30 p.m.

COUNTER AVAILABLE

Anyone wishing to have the wooden counter in the hallway of the first floor of the Agronomy Building should check with Avis in 411 Borlaug.

USDA OUTSTANDING PERFORMANCE

Carroll Vance and Hans Jung received Outstanding Performance awards on their Annual Performance from the USDA-ARS on December 28. Congratulation.

GOPHER CROPS AND SOILS CLUB

The Gopher Crops and Soils Club will hold their first meeting for Winter Quarter on Tuesday, January 9 at 5:00 p.m. in 306 Borlaug Hall. They will have a speaker discussing Arid Region Agriculture, followed by a spaghetti dinner.

LECTURE ON GREENHOUSE EFFECT

The U of M Sample Lecture series will have a lecture on "The Greenhouse Effect: Understanding and Managing a Global Dilemma" by Dean Abrahamson on Tuesday, January 9 at 7:30 p.m. in 135BD of the Earle Brown Center. Cost is \$1.

IAFHE VICE PRESIDENT SEARCH

Two more finalists for the Vice President of the Institute of Agriculture, Forestry, and Home Economics will give seminars: Gregory Brown - January 8 at 3:15 p.m. at the SPSC Theatre, reception follows. James Zuiches - January 18-19. Schedule not yet finalized.

Curriculum vitae for C. Eugene Allen and Gregory N. Brown, candidates for VP of the IAFHE are available in the Dean's Office, 277 Coffey Hall for review by any interested persons. CV for the third candidate will be available as soon as it is received.

UNIVERSITY HOLIDAY

The next University Holiday will be Martin Luther King's birthday on Monday, January 15. The University will be closed on this date. There will not be another holiday until May 28 - Memorial Day.

POSITION ANNOUNCEMENTS

- Sorghum Breeding Assistant, Delta and Pine Land Company in Hesston, Kansas, M.S. or B.S. in Ag. preferred.
- National Pesticide Impact Assessment Leader, USDA-ARS, Washington, DC.
- Crop and Resource Management Specialist, The Asian Vegetable Research and Development Center, Taiwan.

GAMMA SIGMA DELTA NOMINATIONS

Nominations for faculty and graduate student membership in Gamma Sigma Delta, the Honor Society of Agriculture, should be sent to Kathy Evans, 213 Agricultural Engineering Building by January 12, 1990.

GRANT SEEKING SEMINAR

The Agricultural Experiment Station will sponsor a seminar on grant seeking on February 4 and 5, 1990. David G. Bauer from Syracuse University will conduct the seminar.

SEMINARS THIS WEEK

Monday, Jan 8

Special Plant Biology Seminar

Assistant Professor Candidate
Morphogenesis of Tobacco Explants and the Effects of Oligosaccharins
Debra Mohnen, Sr. Postdoctoral Research Associate, Univ. of Georgia, in 306 Borlaug Hall at 9:35 am
Weed Science Discussion Group
Lori Marshall and Roger Baerg
Journal Article Critiques.
Noon in 306 Borlaug.

Plant Breeding Seminar

RFLP's and plant genetics: Map-based cloning on deterministic breeding.

Dr. Nevin Young, Plant Path, in 306 Borlaug Hall at 4 pm

Soil Science

Simulation of evaporation losses in Minnesota under different climate regimes.

I.A. Barrie, Ext. Climatologist, in 375 Borlaug Hall at 3 pm

Tuesday, Jan 9

Plant Pathology Seminar

Isozyme variation and vegetative incompatibility in the conifer Leptographium wageneri.

Paul Zambino, Cereal Rust Lab, in 365 Borlaug Hall at 4 pm

Genetics and Cell Biology

Candidate for Dept. Head
Genetic regulation of fungal development.

William E. Timberlake, Univ. of Georgia, in 10 Palmer Classroom, at 4 pm

Wednesday, Jan 10

Agronomy Seminar

Research and development possibilities through the AURI
Virgil Smail, Director of the Ag. Util. Res. Institute, Greater Minnesota Corporation, Crookston, MN in 335 Borlaug Hall at 4 pm

Ecology, Evolution and Behavior

Variation in parental investment in plants: selection or constraints?
Mark McGinley in 313 Zoology at 3:30 pm

Thursday, Jan 11

MacArthur Lecture Series

Agricultural transformation in Africa: Debating the crisis.

Michael Watts, Prof. of Geography at U of Calif.-Berkeley, in St. Paul Student Center Theatre at 12:15 pm

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

FACULTY MEETING

There will be a departmental faculty meeting on Friday, Jan. 19 at 1:30 p.m. in 306 Borlaug.

CIVIL SERVICE MEETING

There will be a meeting of all Civil Service staff on Tuesday, Feb. 6 at 9:30 a.m. in 306 Borlaug Hall. Coffee and donuts will be served. If you have anything you want to talk about, now is your chance.

ASA MEMBERSHIP

Graduate students who are currently not members of the American Society of Agronomy are encouraged to become members. Membership and subscription to all of the ASA journals are half price for five years and includes publication privileges. See Dr. Cardwell (309 Agronomy) if you need membership forms.

AG EXPERIMENT STATION RETREAT

The Ag Experiment Station and the Institute will be on a retreat on January 19, 1990 for the entire day. There will be no one in the office to handle signatures on grants, travel, etc., or the fax machine. Wherever possible, please try to have all of these times handled on the 18th. The phones will be answered by a student in the Institute reception area. She will also hold any mail that might be dropped off that day. The Experiment Station office will not be open. Although we realize this will cause some inconvenience to those we serve, we trust you will understand that it is important to all of us in the two offices to have this one day free of interruptions so we can concentrate on planning. C. Eugene Allen

CROPS AND SOILS DAY

The 20th Annual Winter Crops and Soils Day and Certified Seed Show will be held in Edson Hall Auditorium on the campus of the University of Minnesota-Morris beginning at 10 a.m., Jan. 19. The morning program will feature the following presentations: "Problem Weed Control Research Update" by Dennis Warnes; "An Alternative Cash Crop--Alfalfa" by Neal Martin; "Water Quality--The Herbicide Story" by Roger Becker; and "Sustainable

Agriculture--What Does it Mean?" by Dennis Warnes. A Certified Seed Show will again be held in conjunction with the Winter Crops and Soils Day. All persons interested in crop production are invited to attend. Winter Crops and Soils Day is sponsored by the University of Minnesota, West Central Experiment Station, and the Agricultural Extension Service.

"CAREER" OPPORTUNITIES IN INDUSTRY

A seminar and workshop sponsored by Monsanto will be held for students - undergraduate and graduate and faculty on Thurs., Jan. 18 in 306 Borlaug Hall, 3-5 p.m.

1990 CONTRACT BOOKS

1990 Contract books have been distributed to each lab. Vendor numbers are an addition to this year's book. The vendor number follows the vendor's address. Be sure to include this number on the new contract purchase order forms.

ST. PAUL RECREATION CENTER

According to the latest schedule of the architect, the St. Paul Recreation Gym Project, to be renamed the St. Paul Recreation Center, will be completed Sept. 1, 1990, barring unforeseen problems due to weather, labor strikes, material acquisition, etc. It is planned to open the center Sept. 15, 1990.

CROPS AND SOILS PLANNING CONFERENCE

The Annual Crops and Soils Planning Conference is primarily for the purpose of coordinating crop-related research at branch stations each year. This year the topic for the Crops and Soils Planning Conference is "Biotechnology, Applications and Implications." The morning session will be devoted to current science developments in plant, animal, and related fields. The afternoon session will focus on issues not directly related to the science, but still critical to testing, public acceptance, and other similar topics. Any faculty, staff, or students that would be interested in these topics are invited to attend. The session will be held in Room 42, Earle Brown Center, from 8:20 a.m. to 3 p.m. on Jan. 16.

CROPS AND SOILS CONFERENCE continued

Starting at 3 p.m. on Jan. 16, there will be individual or departmental planning sessions for those faculty who wish to do research at the branch stations for the coming year.

CIVIL SERVICE LUNCHEON

All newly hired (since Jan., 1989) civil service employees who work on the St. Paul Campus within the IAFHE are invited to attend a luncheon in the North Star Ballroom on Mon., Jan. 29 from 12-1:30 p.m. RSVP due Jan. 23. Time will be allowed for those wishing to attend. Call April Narcisse (624-4777).

WINTER CROPS DAY

Winter Crops Day will be held Thurs., Jan. 25 at 9:30 a.m.-3:30 p.m. at the University of Minnesota, Waseca Auditorium, Waseca.

CIVIL SERVICE GUIDELINES

Guidelines for the Civil Service Excellence Award are being distributed. Nominations are due to Lynne in 411 Borlaug by Feb. 15.

UNDERGRADUATE BANQUET

Mark your calendars for the Undergraduate Banquet to be held the evening of April 10 in the Earle Brown Center.

POSITION ANNOUNCEMENTS

- Outreach Specialist, East River Water Quality, Green Bay, WI.
- Natural Resources Manager, Kemp Natural Resources Station, Minocqua, WI.
- Superintendent, Hancock Agricultural Research Station, Hancock, WI.
- Area Extension Agent, Agriculture/Natural Resources (ANR) Integrated Pest Management (IPM), La Paz/Mohave Counties, Parker, AZ.
- Assistant Agronomist--Hybrid Wheat Development, HybriTech, Lafayette, IN.
- Assistant Breeder--Hybrid Wheat Breeding, HybriTech, Lafayette, IN.

SEMINARS THIS WEEK

Tuesday, January 16

- Plant Physiology Seminar
"Effects of freezing and freeze-related stresses on microtubules in spinach mesophyll cells," Mike Bartolo in 335 Borlaug at 3 p.m.
- Plant Pathology Seminar
"Epidemiology of aflatoxin contamination in pistachio nuts," Dariush Danesh, visiting scientist, 365 Borlaug, 4 p.m.
- Special Plant Biology Seminar
"Mating type genes in Coprinus cinereus: An evolutionary perspective," Georgiana May, Univ. of N.C., 306 Borlaug at 9 a.m.

Wednesday, January 17

- St. Paul Student Center Issues and Ideas Committee and COA
"The Struggling People," video series with discussions following, 12:15 p.m., St. Paul Student Center, Room 202.
- Ecology, Evolution, and Behavior Seminar
"Modelling immigration to and extinction on islands," Dr. Kendall W. Corbin, 3:30 p.m., 313 Zoology Building.

Thursday, January 18

- Horticulture Department Head Candidate
"Mission and Programs of Horticultural Science Departments in the 1990's," Gary Gardner, Seminar at 3 p.m., 375 Borlaug Hall.
- Genetics and Cell Biology Seminar
"Molecular analysis of a steroid hormone - inducible gene in Drosophila," Dr. Weldon Jones, Bethel College, in 70 BioScience at 3:30 p.m.
- Special Plant Biology Seminar
"Integration of molecular and morphological views of grass evolution," Elizabeth Kellogg, Harvard Univ. Herbaria, 306 Borlaug at 9 a.m.

Friday, January 19

- Plant Biology, Plant Physiology and Horticulture Seminar
"Transcriptional analysis of het A, a gene that acts early in the process of morphological differentiation of heterocysts in Anabaena PCC7120," Doron Holland, Ph.D., Michigan State Univ. in 239 Gortner at 12 noon.
- Faculty Colloquium
1) D.C. Rasmusson, "Barley breeding in Europe," and 2) R.K. Crookston, "Sustainable corn production in West Africa," 12-1 p.m. in 306 Borlaug.

Agronomy Gleanings

January 19, 1990

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

CONGRATULATIONS

Congratulations to:

Song Joong Yun and Chang Ae Yun on the birth of their daughter, Mary Yun, born December 30, 1989.

Gary and Charleen Muehlbauer on the birth of their daughter, Amanda, born January 16, 1990.

Mark and Joan Matteson on the birth of their son, Andrew Lee, born December 19, 1989.

TO THE ENTIRE DEPARTMENT OF AGRONOMY AND PLANT GENETICS

As the date of my departure approaches I would like to thank all of you for your support and congeniality during my stay with this department. This has been the most enjoyable experience of my academic career and I very much appreciate everything everyone has done for me.

Helmut Schiffer

FOR RENT:

Quiet 2-bedroom Condo, 1 3/4 bath, central air, fireplace, neutral paint, new carpet, dishwasher. Located in Brandy Chase (just west of U of M Golf Course). About 20 min. walk to St. Paul Campus. \$600/mo + \$45 util/mo. Call Eric Ristau, 5-8189. Available March 1.

NEW ACTING DEPARTMENT HEAD-KANSAS

Gerry L. Pasler is the new Acting Head of the Department of Agronomy at Kansas State University in Manhattan, KS.

RESEARCH GRANTS

The Cooperative State Research Service has announced the Special Research Grants Program for Fiscal Year 1990. Please see Avis for information.

CURRENT ASSISTANTSHIPS AVAILABLE

Leann J. Malison, Career Development and Placement Coordinator will be conducting a placement service at the ASA Southern Branch Meeting in Little Rock, AK, February 4-7, 1990. Information on available full time positions and assistantships will be posted for applicant review. At this time, she is asking for all available announcements in our department. Please see Lynne for forms. Forms must be returned to ASA Headquarters by January 29, 1990.

COORDINATOR FOR INSTRUCTIONAL COMPUTING - FYI

Linda Jom is the Coordinator for Instructional Computing for the College of Agriculture. She will be responsible for managing computer support services for the College in the following ways:

- Facilitate computer literacy among staff and faculty of the College through seminars, workshops, and individual consulting.
- Facilitate computer literacy among students through teaching Agriculture 1200: Computer Applications in Your Profession.
- Assist faculty in initiating and preparing computer-related instructional proposals.
- Serve as liaison between faculty and other University computer services and resources, including, but not limited to instructional designers, programmers, and educational development offices.
- Administer the College Computer Lab (310 Alderman Hall).
- Evaluate and manage the College telecommunications network (Project Harvest). This includes training, updating manuals, and maintaining the bulletin board and user directors.
- Work with faculty to recruit network participation.

GOPHER CROPS & SOILS CLUB

Organizational Meeting for the Regional Agronomy Meeting. Please bring ideas for activities. Committees will be set up. Tuesday, January 23 at 5:00 p.m., 306 Borlaug Hall. Chinese Dinner provided.

DR. CLEORA D'ARCY'S VISIT TO THE DEPARTMENT OF PLANT PATHOLOGY

Dr. D'Arcy will be visiting the Department of Plant Pathology. Her trip is possible through grant from the APS Women in Plant Pathology Speakers Bureau. Women interested in attending the box lunch on Monday, January 22 should sign up on the sheet on the bulletin board in the coffee room in Stackman Hall. Graduate students interested in visiting with Dr. D'Arcy at dinner Monday evening, January 22 should contact Janell Johnk by Noon, Friday, January 19. This meal is a pay your own way and will be held at Ciatti's on Lapenteur Ave.

YARD WASTE RECYCLING

TO: Tom Warnke

FROM: John Fluegeman, PPO/Gr. Services

On January 1, 1990 a state law went into effect prohibiting Yard Waste from entering the solid waste stream. (Plant materials, soil, leaves and grass clippings are considered Yard Waste.)

Grounds Services routinely picks up used soil and plant materials from the greenhouses and growth chambers on the St. Paul Campus. At this time we are asking for your help in recycling all Yard Waste. Yard Waste must be free from all trash, i.e., pots, pot labels, plastic bags, etc. Please, dispose of these materials in an appropriate container for pickup on the normal Solid Waste route.

If Grounds Services has to sort materials at your location the pickup charge will reflect the extra labor and equipment time.

If your department is currently sorting and recycling Yard Waste, we thank you; if not, please start doing so. Your effort is needed to help us comply with the law, not to mention making a better environment for all.

POSITION ANNOUNCEMENTS

- Extension Assistant, Plant and Soil Science, District II Extension office, Nashville, Tennessee.
- Utah State University Extension Agent or Associate Extension Agent, Logan, Utah.
- Assistant Professor, Turf Management, North Carolina State University, Raleigh, NC.
- Agronomy/Remote Sensing Specialist, Space Remote Sensing Center, Stennis Space Center, MS.
- Extension Agronomist, Weed Science, University of Georgia, Athens, Georgia.

SEMINARS THIS WEEK

MONDAY, JANUARY 22

- Weed Science Discussion Group
"Control of Purple Loosestrife: What Can Be Done Where You Can't Take a Tractor?", Chip Welling in 306 Borlaug at Noon.
- Forest Resources Seminar
"An Examination of Northern Red Oak Stands in Houston County, Minnesota", Sandy McCartney in 100 NRABldg., 3:00 p.m.
- Soil Science Seminar
"The Effect of Earthworm Burrows on the Movement of Atrazine in Soil-a Research Proposal", Mike Trojan in 375 BH, 3:00 p.m.
- Plant Pathology Seminar
"Can Professionalism be Taught?", Dr. Cleora D'Arcy, University of Illinois-Urbana in 491 Borlaug at 3:00 p.m.

TUESDAY, JANUARY 23

- Plant Pathology Seminar
"The Most Important Plant Viruses in the World", Cleora D'Arcy in 375 BH, 11:00 a.m.
- Entomology Seminar
Metropolitan Mosquito Control District Program: An Overview by Bob Sjogren with Susan Palchick, Kelly Sharkey and Dave Noetzel, 490 Hodson Hall at 3:00 p.m.
- Plant Physiology Seminar
"The Regulation of Drought-Induced Gene Expression by Abscisic Acid", Elizabeth Bray in 335 Borlaug Hall at 3:00 p.m.
- Horticultural Science Seminar
by Charles Johnson, 375 Borlaug Hall at 4:00 p.m.

WEDNESDAY, JANUARY 24

- Agronomy Seminar
"Utilization of Agronomic Crops: Identification of Quality Traits in Cereals" by Dr. Gary Fulcher, 335 Borlaug Hall at 4:00 p.m.
- Ecology, Evolution & Behavior
"Communication in Elephants" by Dr. Katherine Payne in 313 Zoology Bldg. at 3:30 p.m.
- Only One Earth...Where to From Here?
Valley of Heart's Delight in 202 St. Paul Student Center, 12:15 p.m.

THURSDAY, JANUARY 25

- Genetics & Cell Biology
"Gene Transfer in Fish", Dr. Kevin Guise in 70 BioScience at 3:30 p.m.
- Global Environmental Concerns of the 90's
"A Student Environmental Panel" Worldspan Room, St. Paul Student Center, 12:15 p.m.

FRIDAY, JANUARY 26

- Faculty Colloquium
"Adaptation of Lupines as an Alternative Crop" by Dan Putnam and "Breeding Alternative Forage Legumes and Grasses" by Nancy Ehlke, 306 BH at 12 Noon.

DEPARTMENT OF AGRONOMY & PLANT GENETICS
University of Minnesota, St. Paul

CANDIDATE FOR VP OF IAFHE

A third candidate for the position of Vice President for the Institute of Agriculture, Forestry and Home Economics, Dr. James J. Zuiches, will be giving a seminar on Monday, February 5, 1990, at 3:30 p.m. in the St. Paul Student Center Theater. Dr. Zuiches is the Director of the Ag. Research Center, and Assoc. Dean of the COA at Washington State University. A reception will follow the seminar.

THANK YOU NOTE

Many thanks to all of you for your present, and for your good wishes on the birth of our baby. Chong and Song Yun

DEATH

Art Howard from Warren, Minnesota, died this past week. Mr. Howard was active in the Minnesota Wheat Commission.

FFA TOURS IN APRIL

Please mark your calendars. FFA members from around the state will be here on campus April and will be touring the department. Dr. Vern Cardwell will coordinate the tours.

MEET WITH DAVE SANDSTROM

Dave Sandstrom will be on campus on Thursday and Friday, Feb 1 & 2, to work with project leaders and staff on orders for supplies (seed, herbicide, fertilizer, etc.) and plans for their work at Rosemount in 1990. Project leaders can arrange to meet with Dave in Room 37 Crops Service by calling 625-9263. Orders may also be sent directly to Rosemount if you are unable to meet with Dave. Supply needs and plans should be in to Dave by February 9.

NORTH CENTRAL ASA MEETING

The North Central Branch of the American Society of Agronomy will hold its regional meeting on July 30-31 at St. Paul, Minnesota. Dr. W.E. Larson from Soil Science will chair the planning committee for this summer meeting. Faculty and student volunteers are needed to plan and carry out the many functions and activities associated with the meeting. Please let Dr. W.E. Larson know of your interest. Mark these dates on your calendar.

HOUSING FOR STUDENTS FOR NCASA MEETING

Any interested faculty or staff who would like to house undergraduate students who are here for the Regional Agronomy meetings on April 20-22 please contact Todd Frank at 646-3196 (leave a message if not there) or Mark Minet at 624-3285 by February 1, 1990.

ACTING DEPARTMENT HEAD IN AG ECONOMICS

James P. Houck will be Acting Department Head in Agricultural Economics during Dr. Michael Boehlje's recovery from his auto accident.

CIVIL SERVICE MEETING

There will be a meeting of the Department Civil Service staff on Tuesday, February 6 at 9:30 a.m. in 306 Borlaug Hall. Refreshments will be served. If you have any items you wish to discuss please contact a Civil Service Liaison Committee member (Kurle, S. Miller, Ristau, Warnke).

CIVIL SERVICE EXCELLENCE AWARD

Nominations for the Departmental Civil Service Excellence Award are due by February 15, 1990, to Lynne in 411 Borlaug Hall. Also, mark your calendars for the Civil Service Awards Ceremony scheduled for Wednesday, April 4 at 3:00 p.m. in 306 Borlaug Hall.

KERMIT A. OLSON MEMORIAL LECTURE

The Department of Horticultural Science will hold the Kermit A. Olson Memorial Lecture on Thursday, February 15 in the Room 135 of the Earle Brown Center at 7:15 p.m. This year's lecture is "Health through Horticulture" by Richard H. Mattson. Dr. Mattson is a professor of horticulture at Kansas State University and directs the Horticultural Therapy program.

POSITION ANNOUNCEMENTS

- Extension Agronomist (Assist/Assoc. Professor) at Auburn University, Department of Agronomy and Soils. Resp. for cotton and low input sustainable ag. programs. Auburn Univ., Alabama.
- Plant Breeding Association, (B.S. or M.S. level) Plant Science Research, Inc., Minnetonka, MN.
- Asst. or Assoc. Professor of Soil Science, Univ. of Wisconsin, Stevens Point, WI.
- Research Associate in Peanut Breeding, (M.S. or Ph.D.) in the Soil and Crop Science Dept. at Texas A&M Univ., College Station, TX.

COMMISSION ON WOMEN SPECIAL GRANTS

The University of Minnesota Commission on Women invites proposals for projects which further its goals: to improve and enhance the working and learning environment for University women. They will award 5-7 grants of up to \$2000. Proposals are due February 23, 1990. Call Beth Minger, 624-9547, for applications forms.

REQUESTS FOR PLOT SPACE AND CHEMICALS

Requests for field plot space on campus should be in to Tom Warnke as soon as possible. There is limited space available. Tom will also be contacting chemical companies in the next month so get your 1990 requests for chemicals to him now.

LCMR PROPOSAL WORKSHOP

LCMR will hold a Proposal Workshop on February 7, 1990, from 9:00-12 (noon) in Room 5 State Office Building in St. Paul. This information workshop is for project proposers for the LCMR 1992-93 biennium funding. Staff will present an overview of the review and funding process. The application deadline for LCMR proposals is February 16.

NEW COURSE IN PLANT PATHOLOGY FOR SPRING

The Plant Pathology Department will hold a new course starting spring quarter, "Air Pollutants and Their Effects on Plants", PLPA 5007. This course will be taught by S. Krupa. It is an interdisciplinary course that provides an integrated analysis of cause (air pollution) - effects (crops and tree species) relationships.

ACTING RESEARCH LEADER IN MORRIS

Dr. Ward B. Voorhees has assumed the role of Acting Research Leader at the North Central Soil Conservation Laboratory in Morris, Minnesota, while Dr. Onstad devotes full time to his duties as Program Manager for the ARS Water Quality Initiative. Dr. Voorhees is anxious to continue "the excellent working relations" with our staff.

EXEMPT W-4'S AND MWR FORMS EXPIRE

Exempt W-4's submitted to payroll in 1989 expire on 2/15/90. To avoid having taxes withheld after that date, new exempt W-4's must be received in this office by the following dates: Biweekly Payroll - noon on 2/13/90; Regular Payroll - noon on 2/20/90. MWR forms (reciprocity) expire on 2/28/90. To avoid having Minnesota taxes withheld, new forms must be in payroll by the following dates: Biweekly Payroll - noon on 2/27/90; Regular Payroll - noon on 3/7/90. MWR forms are available from the Minnesota Department of Revenue.

CLOSE THE DOORS OF THE SEEDHOUSE

Please be sure to slam the door closed when you go in and out of the west door of the seedhouse (loading dock). The door has been left open. Thanks.

FLOWER AND GIFT FUND

Faculty, Staff, Students - Don't forget to make your contributions to the Flower and Gift Fund to Avis in 411 Borlaug Hall. Thanks.

SEMINARS THIS WEEK

Monday, Jan 29

Plant Breeding Seminar

Current Status of the Gene-for-Gene Hypothesis. Frank Treadwell in 306 Borlaug Hall at 4:00 p.m.

Forest Resources Seminar

Dinitrogen Fixation in Forest Ecosystems by Actinorhizal Species. Steven Kohls in 100 Natural Resources Admin. Bldg. at 3:00 p.m.

Weed Science Discussion

The effect of root exudates of grasses on the growth and development of leafy spurge seedlings. William Koukkari in 306 Borlaug at 12 (noon).

Tuesday, Jan 30

Horticulture Department Head Seminar

Mission and Programs of Horticultural Science Departments in 1990's. Dr. Charles Johnson, in 375 Borlaug Hall at 4:00 p.m.

Plant Physiology Seminar

Chronobiological investigations of pesticide activity using paraquat as a model. Robert Hills, in 335 Borlaug Hall at 3:00 p.m.

Plant Pathology

Greenhouse warming: Global and local implications for ecosystems. Dr. E. Graham, Regents Professor of Ecology, in 365 Borlaug at 4:00 p.m.

Wednesday, Jan 31

Agronomy Seminar

Implications of Crop Choices in Tropical Agricultural Systems. Rosheila Vather, in 306 Borlaug Hall at 4:00 p.m.

Ecology Seminar

Optimal foraging models for ungulates: how kudus choose their food. Dr. Norman Owen-Smith, Univ. of British Columbia, in 313 Zoology at 3:30 p.m.

Thursday, Feb 1

Genetics and Cell Biology Seminar

RNA-protein interactions in Polio virus infected cells. Dr. Karla Kirkagard, Univ. of Colorado, in 70 BioSci at 3:30 p.m.

Friday, Feb 2

Faculty Colloquium

"The Genes Mendel Did Not Discover", by Burle Gengenbach; and "Oat Genetics and Biotechnology", by Howard Rines, in 306 Borlaug Hall at 12 (noon).

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

DEPARTMENTAL SOUP LUNCH

Mark your calendars! On Wednesday, February 21 there will be a soup lunch to benefit the St. Paul Food Bank. Please plan to join us for good food and for a good cause.

Sponsored by the Grad Club

CONGRATULATIONS LADDIE

Laddie Elling will be inducted into the Red River Valley Winter Shows Hall of Fame on February 17, 1990. This is a great honor for Laddie in recognition of his many contributions to the Red River Valley Winter Shows and to the grass seed industry in northern Minnesota.

Congratulations.

CANDIDATE FOR VP OF IAFHE

The third candidate for the position of Vice President for the IAFHE, Dr. James J. Zuiches, will give a seminar on Monday, Feb. 5, at 3:30 p.m. in the St. Paul Student Center Theater. Dr. Zuiches is the Director of the Ag. Research Center, and Assoc. Dean of the COA at Washington State. A reception will follow.

CIVIL SERVICE MEETING

Attention Civil Service Staff: There will be a meeting of the Civil Service on Tuesday, Feb. 6 at 9:30 a.m. in 306 Borlaug Hall. An agenda has been distributed, if you didn't get a copy see Lynne in 411 Borlaug.

CIVIL SERVICE NOMINATIONS

Get those award nominations in by Feb. 15. If you need guidelines, see Lynne.

THANK YOU NOTE

To our friends in the Department of Agronomy. Thank you for the adorable Minnesota sweatsuit. Amanda will surely be a devoted Gopher through her years. She told us she really likes her sweatsuit. Thanks again.

Gary, Charlene, and Amanda Muehlbauer

Every public speaker should stand up to be seen, speak up to be heard, and sit down to be appreciated.

UNDERGRADUATES

Crops Kit Workshop will be held on Tuesday, Feb. 6 at 5:00 p.m. in 101 Agronomy Building. Pizza will be served.

Also, plans will be made and tickets ordered for a Timberwolves Basketball game tentatively set for Feb. 20.

All undergraduates interested in an executive office in the Gopher Crops and Soils Club should talk to a current officer or leave your name in Room 101 Agronomy. Elections will be held before the basketball game on Feb. 20.

Alpha Zeta Alumni travel scholarships are available for College of Ag. students, or groups of students, who wish to travel to attend a meeting of professional, scientific, or technical society or association (excludes judging teams). These awards can be used between now and Sept. 23, 1990. Applications should be in to Laurie Hayes by Feb. 16, 1990. See Larry Smith for more information.

INTERNATIONAL NIGHT

All undergraduates, graduate students, staff, and faculty are invited to an International Night on March 6 at 5:00 p.m. in 306 Borlaug Hall. Bring you favorite international dish, beverages will be provided. This event was really alot of fun last year. Plan to attend!!!

Sponsored by Gopher Crops and Soils Club

COPY CARD FOUND

A C.D.P. copy card (300) was found in the departmental library with no name on it. Please see Pat Kessler in 302 Agronomy if this is yours. Thank you.

TRAVEL RATES

The Business Office has again raised the personal mileage rate to \$0.26 per mile as of January 23, 1990.

SEMINARS THIS WEEK

Monday, February 5

Plant Breeding Seminar

Uses of Additive Main Effects Multiplicative Interaction Model for Analysis of Yield Trials. Nathaniel Page in 306 Borlaug Hall at 4:00 p.m.

Forest Resources Seminar

Water Quality in Forest Management - Best Management Practices in Minnesota. Michael Phillips, Minnesota DNR, in 100 Nat. Res. Admin. Bldg. at 3:00 p.m.

Tuesday, February 6

Plant Physiology Seminar

Characterization of developmentally arrested flowers in a GA-deficient mutant of tomato. Steve Jacobsen in 335 Borlaug Hall at 3:00 p.m.

Plant Pathology Seminar

Ground water pollution problems in Minnesota. Greg Buzicky in 365 Borlaug Hall at 4:00 p.m.

Entomology Seminar

Remodeling a simple nervous system: Neuronal metamorphosis and plasticity in the hawkmoth, *Manduca sexta*. Dr. Karen Mesce in 490 Hodson Hall at 3:00 p.m.

Insights

Evaluating African Agriculture Extension Systems. Steve Jones, in SPSC at noon.

Wednesday, February 7

Agronomy Seminar

Greenhouse Effect and Agricultural Production. Kingsley Ayisi in 306 Borlaug Hall at 4:00 p.m.

Thursday, February 8

Insights

International Treaty for the Elimination of All Forms of Discrimination Against Women. Arvonne Fraser in St. Paul Student Center at noon.

Worldspan

Environmental Organizations: Thinking Globally-Acting Locally. Discussion group of students from MPIRG, in Worldspan room of SPSC at 12:15.

Genetics

RNA-protein interactions in Polio virus infected cells. Dr. Karla Kirkagard, Univ. of Colorado, in 70 BioScience at 3:30 p.m.

Friday, February 9

Faculty Colloquium

Rhizobium meliloti, the Microsymbiont in Alfalfa N₂ Fixation, by Don Barnes, and Soybeans: The Miracle Crops, by Jim Orf in 306 Borlaug Hall at noon.

SPECIAL PH.D. SEMINAR

David Frisch will present his Ph.D. thesis seminar on Monday, February 5 at 9:45 a.m. in 306 Borlaug Hall. Title: Biochemical and Molecular Characterization of Dihydrodipicolinate Synthase from *Zea mays* L.

INTSORMIL & CRSP REVIEW

One of the first AID-funded CRSPs (Collaborative Research Support Programs) to be reviewed this past fall by JCARD (Joint Committee on Agricultural Research and Development/Board for International Food and Ag. Development) is now in the departmental library.

FACULTY ASSEMBLY

The College of Agriculture will hold faculty assembly meetings on: Monday, March 12, 9-11 a.m.; and Monday, June 4, 9-11 a.m.. Mark your calendar.

POSITION ANNOUNCEMENTS

- Extension Seed Certification Specialist (MS degree), Oregon Extension Serv., Corvallis, OR.
- Superintendent, Deciduous Fruit Field Station or South Coast Field Station, Univ. of California, Oakland, CA.
- Asst./Assoc. Professor, Soil Fertility, Soil Science Dept., North Carolina State Univ., Raleigh, NC.
- Wheat Breeding Research Assistant, Univ. of Arkansas, Dept. of Agronomy, Fayetteville.
- Crops and Soils Agent, Chippewa County, Univ. of Wisconsin-Extension, Madison, WI.
- Research Associate, Dept. of Plant Science, South Dakota State Univ., Brookings, SD.
- Head, Dept. of Agronomy, Kansas State Univ., Manhattan, KS.

FAX MACHINE

We are now charging for use of the FAX machine. 50 cents/page for receiving and 50 cents/page for sending, plus long distance changes when sending.

FERTILIZER ORDERING

I will be ordering fertilizer for plot use on the St. Paul Campus on Monday, February 12. If there are any special requests, I would like to have them by February 9. I will be ordering the same quantities, and analysis as in the past if I don't hear from anyone.

Thanks. Tom Warnke

MW
9 Ag 8/5

DEPARTMENT OF AGRONOMY & PLANT GENETICS
University of Minnesota, St. Paul

DEPARTMENTAL SOUP LUNCH

The Grad Club is sponsoring a charity Soup Line with the proceeds going to the St. Paul Food Bank. A variety of soups and drink will be provided so bring your sandwich and join us at noon, Wednesday, February 21, in Room 306 Borlaug Hall. Contribution is \$2.00.

THANK YOU NOTE

To our friends in the Department of Agronomy: We wish to thank you for the sweatsuit given acknowledging the birth of our son Andrew Lee. All are doing fine. The gift was very appropriate as the hand-me-downs are beginning to wear thin. Thanks again. Mark, Joan, David, Michael, Thomas, and Andrew Matteson.

NEW BABY

Beth Schreiber and her husband, Frank, had a new baby boy on Sunday, February 4. They have named him Peter. He weighed 8 lbs. 3 oz. and was 21 inches long. A U of M sweatsuit was sent by the Flower and Gift Committee. Congratulations.

INTERNATIONAL NIGHT

All undergraduates, graduate students, staff, and faculty are invited to an International Night on March 6 at 5:00 p.m. in 306 Borlaug Hall. Bring your favorite international dish, beverages will be provided. Sponsored by Gopher Crops and Soils Club

OUR FAX NUMBER

The FAX number for the Department of Agronomy and Plant Genetics is 612-625-1268.

IPM CANDIDATES

Two candidates for the Assistant Extension Specialist-Integrated Pest Management will present seminars on February 9. Bruce Giebink at 10:30 am in 491 Borlaug, Keith Jarvi at 3:00 pm in 306 Borlaug Hall. Both candidates will address the topic: Challenges to IPM Adoption.

SHUT FREEZER DOOR

There have been problems with the walk-in freezer on first floor of Borlaug. Do not prop the door open. When the door is open for even less than five minutes it causes the freezer to go into alarm mode and shut down (everything will thaw). Make sure the door is shut when you leave the freezer.

UROOP OPPORTUNITIES

The Undergraduate Research Opportunities Program has funds available to support student research or creative projects undertaken in partnership with a faculty member in 1990-91. Application deadline is April 13. Workshops Feb. 12, 13, and 16, will help students prepare strong applications. Call 625-0088 for more information.

MISSING COVER SHEET

Anyone planning to submit a preproposal to the Midwest Plant Biotechnology Consortium the RFP Cover Sheet was missing from the original packet. Please see Avis if you want a cover sheet.

PURCHASE ORDER HANDOUTS

Handouts explaining "how to" complete contract purchase orders and Federal Express airbills are available from Marilyn or Judy. Your cooperation will be greatly appreciated.

FEDERAL EXPRESS

When using Federal Express to send a letter/pak make sure you use a PREPRINTED airbill. Our supplies are kept in 411 Borlaug Hall. The airbill must be COMPLETELY and CORRECTLY filled out or your project will pay in higher costs. The Federal Express Drop Box located in the loading area of the St. Paul Student Center is for Convenience Only - Mon.-Fri. The \$3.00 savings applies to regular price rates, U of M discount is much lower. Whatever the case may be, do not hesitate to call Marilyn or Judy with questions. We are here to help you.



iger by Bud Blake

SEMINARS THIS WEEK

Monday, February 12

Plant Breeding Seminar

Specialty Maize: Breeding and Genetics. Lori Marshall in 306 Borlaug Hall at 4:00 p.m.

Weed Science Discussion

Bioeconomic modeling of weed management systems. Rob King in 306 Borlaug Hall at noon.

Soil Science Seminar

An eclectic history of meteorology - individuals and events. Donald G. Baker in 375 Borlaug Hall at 3:00 p.m.

Forest Resources Seminar

The role of insect wounds in the etiology of hypoxylon canker of aspen. Michael Ostry in 100 Nat. Res. Admin. Bldg. at 3:00 p.m.

Tuesday, February 13

Plant Pathology Seminar

Action mode of AK-toxin. Wieping Xie in 365 Borlaug Hall at 4:00 p.m.

Plant Physiology Seminar

A putative chemical link between juvenility and rooting ability in woody plants. Mike Raviv in 335 Borlaug Hall at 3:00 p.m.

Insights

Grandparent/Grandchildren relationships. H. Etta Saloshin, Prof. Emeritus, School of Social Work, in St. Paul Student Center at noon.

Entomology Seminar

Body size and diet quality in the genus *Cydia*. Bill Miller in 490 Hodson Hall at 3:00 p.m.

Wednesday, February 14

Agronomy Seminar

Utilization of Agronomic Crops: The Ethanol Question. Larry Johnson in 335 Borlaug Hall at 4:00 p.m.

Ecology Seminar

A biased look at the reasons for dominance by blue-green algae. Joseph Shapiro in 313 Zoology at 3:30 p.m.

Thursday, February 15

Worldspan Discussion

Restoration Ecology of Tropical Forests. Frank Barnwell in Worldspan Room, SPSC, at 12:15.

Friday, February 16

Faculty Colloquium

"What is Wheat Quality and How does it Effect Wheat Breeding", Bob Busch; and "Plant Control of Legume Nodulation", Carroll Vance, in 306 Borlaug Hall at noon.

GRAD SCHOOL GRANT IN AID

The Graduate School is accepting applications for their 1990-91 Grant-in-Aid Program for faculty. Applications are due before Monday, March 5 at 4:30. See Lynne for policies.

POSITION ANNOUNCEMENTS

- Three positions for Field Supervisors in Minnesota with Minnesota Crop Improvement Association.
- Assistant Scientist, Weed Science (full-time), Kansas State Univ., Dept. of Agron., Manhattan, KS.
- Botanist (faculty position), North Carolina Ag. and Tech. State Univ., Greensboro, NC.
- Asst., Assoc., or Full Professor in plant biochemistry, Univ. of Calif., Riverside, Dept. of Biochem.
- Chair and Prof. of the Dept. of Agron., Hort., and Ento. at Texas Tech. University, Lubbock, TX.
- Asst. or Assoc., Prof. in Plant Population Genetics, Dept. of Biology, San Diego State Univ. San Diego, CA.
- Program Leader, Agriculture (two positions), Minn. Extension Service, Univ. of Minn., St. Paul.
- Groundskeeper for an 18 hole golf course from April 1 to Nov. 1, 1990, salary \$19,000, Dept. of the Air Force, Sawyer Air Force Base, Michigan.

FULBRIGHT PROGRAM

About 1,000 lecturing and research grants will be available for American Scholars under the Fulbright Scholar Program during the 1991-92 academic year. Faculty in all academic ranks, including emeritus, are eligible to apply for a Fulbright grant. See Lynne for a copy of the brochure.

ATTENTION FACULTY

Note this information regarding Research Assistants: Under the current Maintenance of Status Quo Order (which relates to the organizing campaign currently underway by the Graduate Student Employment Association), changes in percent time appointments, additional appointments for individuals currently holding assistantships, extensions of current appointments, and changes in pay and benefits are **not permitted** except where they were clearly and mutually agreed upon prior to January 18, 1990. New appointments are permitted only if the graduate student does not hold a graduate assistant appointment at the time the new appointment is made.

NEW COURSE FOR SPRING

Plant Biology will offer a course Spring Quarter: Signal Transduction in Plants (1 credit), Plant Biology 8950, time to be arranged. An organizational meeting will be held March 26 at 3:00 p.m. in 648 BioScience.

170
9798

Agronomy Gleanings

February 23, 1990

DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

THANK YOU NOTE

Thank you to everyone who attended and/or made contributions to the soup lunch on Wednesday. Donations totalling \$120 will be given to the St. Paul Food Bank. We hope to make this an annual event. Thank you. The Grad Club

THANK YOU NOTE

Dear Friends in Agronomy: Thank you so much for the U of M sweatsuit for Peter. We are all doing well and hope to visit soon. Beth and Frank Schreiber

STATE DIRECTORY

A copy of the 1988-89 Directory of Professional Workers in State Agricultural Experiment Stations and Other Cooperating State Institutions has been placed in the departmental library. This is the newest edition.

ALUMNI SPRING PICNIC

The College of Agriculture Alumni Association will sponsor its 2nd Annual Meeting/Spring Picnic for faculty, alumni and their families on Sunday, May 20, at the Minnesota Landscape Arboretum in Chanhassen. There will be educational speakers, a children's program and lots of food and fellowship. Watch your mail for details or call Susan Lee at 624-7473 for more information.

MANY FACES IN SCIENCE

Robert Jones has been selected as a role model for the Bell Museum of Natural History's "Many Faces in Science" exhibit. The multi-media exhibit features profiles of minority scientists and science students. The exhibit opens February 26 at 10:30 a.m. at Northeast Junior High School in Minneapolis. Northeast has a minority enrollment of more than 54 percent. Congratulations, Robert.

STEAM TRAP & RADIATOR VALVES

A survey of the condition of steam traps and radiator valves located in all Twin Cities Campus buildings began Feb. 19. The goal is to survey, tag and schedule repair and replacement of defective valves by the end of the heating season. This procedure should reduce energy use and improve temperature control. Please cooperate with the inspection teams as they survey our buildings. If you have questions call Mary Vogel at 626-7417.

HOST A FARM FAMILY

Faculty: The Minnesota Extension Service is asking faculty to host a farm family during the night of March 15, 1990. County extension directors nominate a farm family for recognition at the Annual Farm Family Recognition Banquet. Normally 30-40 families stay in faculty member's homes. You would be expected to attend the banquet with your host family, house them overnight on March 15 and prepare breakfast the next morning. Most of the families will attend County Extension Day on campus March 16. This is a good opportunity to meet outstanding men and women representing many diverse interests in Minnesota. Contact Neal Martin if you are interested.

NEW PEOPLE IN AGRONOMY

Please welcome Kim Hildebrandt to the Department. Kim is working as Assoc. Scientist on a collaborative project with John Gronwald, Don Wyse, and Nancy Ehlke. She is working in 597 Borlaug.

Also, welcome Suzanne Bailey. Suzanne is working with Elizabeth Grabau as an Assist. Scientist. She is working in 592 Borlaug Hall.

Please welcome Sheila McLoughlin to the Department. Sheila is our new receptionist and secretary in 411 Borlaug.

FACULTY PLEASE SIGN OUT

Faculty: Please remember to sign out on the board or call when you are going to be away from your office. This will be very helpful to Sheila (our new receptionist). Thank you

GRAD CLUB POTLUCK SOCIAL

Attention Graduate Students: The Grad Club will hold a potluck winter social on March 3, 1990, at 5:00 p.m. in 306 Borlaug Hall. Department family and friends are welcome. There will be games and fun for all. Please sign up for the dish you will bring on the sheet outside 411 Borlaug Hall.

DEAN'S LIST

Several Agronomy undergraduate students made the Dean's List for Fall Quarter: Brian Bostrom, Todd Frank, Geoff Graham, Joel Holthaus, Gary Suess, Todd Vagts, and Wayne Worthley.

WINTER FACULTY ASSEMBLY

The College of Agriculture will hold a Winter Quarter Faculty Assembly on Tuesday, March 13 from 9-11 a.m. in 335 Borlaug Hall. Submit agenda items to Paulette Collins, 277 Coffey Hall, by March 7. **Note:** COA Faculty Assembly Meetings are open to all faculty, academic staff, civil service personnel, and students in the College.

NEW GRAD LEVEL COURSE IN AGRO

Dr. Robert Stucker will teach a new course this Spring quarter, 1990, in Statistical Topics in Plant Sciences. The course number is AGRO 8260, Call Number 123101 (8:30-9:20 a.m., MWF in Agronomy 408, 3 credits). The course is intended for grad students interested in controlled experiments involving plants.

GRAIN CRADLE DONATION

Mr. Rodney Briggs will donate a grain cradle which belonged to his father, George M. Briggs, to the Department of Agronomy and Plant Genetics. George Brigg was an early graduate of our department - 1916. His advisor was Dr. Anry. Rodney Briggs also worked in the department for many years (some of you may remember him). He will make this donation in early May.

WILLIAMSON RECARPETING

Williamson Hall on Minneapolis Campus will be recarpeting several offices during Feb and Mar which may necessitate an interruption in service. If you need to go to an office over in Williamson call before you go to make sure they are open.

HIGH SCHOOL APPRENTICESHIPS

CSRS, and the USDA is again sponsoring a Research Apprenticeship Program for high juniors and seniors in 1990. The main objective of this program is to stimulate interest among minority communities in science related careers. Applications are due in the Ag. Exp. Station by noon on March 1. See Lynne for more information.

POSITION ANNOUNCEMENTS

- Asst. Prof. or Instructor of Agronomy/Seed Lab. Manager, Dept. of Plant Science, South Dakota State Univ., Brookings, SD. (M.S. or Ph.D.)
- Four positions with the Asian Vegetable Research and Development Center in Taipei, Taiwan.
- Systems Analyst Programmer, Dept. of Agronomy, Univ. of Kentucky, Lexington.
- Postdoc in Plant Molecular Biology, Biochem Dept., Univ. of Missouri, Columbia, MO.
- Extension Wheat and Feed Grain Specialist, Univ. of Arkansas, Little Rock.
- Dean of the College of Science and Engineering at U of M, Duluth Campus.
- Asst. or Assoc. Prof. in Water Quality, Oklahoma State Univ., Stillwater, OK.
- Regional Pest Management Specialist, SW Purdue Ag. Center, Vincennes, IN.
- Asst. Prof. of Horticulture/Extension Specialist, South Dakota State Univ., Brookings, SD.
- Asst. or Assoc. Prof. in Soil classification and land use, Dept. of Soil Science, U of M, St. Paul.

SEMINARS THIS WEEK

MONDAY, FEBRUARY 26

Plant Breeding Seminar

Antisense RNA and Ribozyme - Alternative Approaches to the Down Regulation of Gene Expression, Song Joong Yun in 306 Borlaug Hall at 4:00 p.m.

Weed Science Discussion Group

Rob DeHaan and Kevin Betts will lead the discussion at noon in 306 Borlaug Hall.

Soil Science Seminar

Systems approach applied to the economics of soil-machine-plant interactions. Dr. Kazem Oskoni, USDA-ARS, Morris, MN and Univ. of Edinburgh, Scotland, in 375 Borlaug Hall at 3:00 p.m.

Forest Resources Seminar

Factors influencing the regeneration of quaking aspen. Peter Bates in 100 Nat. Res. Bldg. at 3:00 p.m.

TUESDAY, FEBRUARY 27

Plant Physiology Seminar

Molecular characterization of pollen-expressed genes in transient assays and in transgenic plants. Sheila McCormick, USDA Plant Gene Expression Center, Albany, CA, in 335 Borlaug Hall at 3:00 p.m.

Plant Pathology Seminar

Are Pisitin demethylating genes in *Nectria* primary pathogenicity determinants? Eric Boehm in 365 Borlaug Hall at 4:00 p.m.

WEDNESDAY, FEBRUARY 28

Agronomy Seminar

Potential Use of Starch Polymers in Plastic Materials. Charles Swanson, USDA-ARS Northern Reg. Res. Center, Peoria, IL, in 335 Borlaug Hall at 4:00 p.m.

Soil Science Seminar

Isolation and characterization of a lectin from the cowpea (*Vigna unguiculata*) Ruilong Liu in 375 Borlaug Hall at 1:00 p.m.

Soil Science Seminar

Phosphorus availability and crop response in soils of the Red River Valley. Lateef A. Olarinde in 375 Borlaug Hall at 9:00 a.m.

Ecology Seminar

Evolutionary cladism. Dr. Mark Ridley, Emory University in 313 Zoology at 3:30 p.m.

THURSDAY, MARCH 1

Genetics and Cell Biology Seminar

Clathrin coated vesicles and receptor-mediated endocytosis. Dr. Cliff Steer in 70 BioScience at 3:30 p.m.

NC Forest Experiment Station

Do attitudes really influence actions? Questioning a sacred cow of environmental management. Dr. Thomas Heberlein, Dept. of Rural Sociology, U of Wisconsin-Madison, in 2nd Floor Conference Room of the NC Forest Exp. Station at 2:00 p.m.

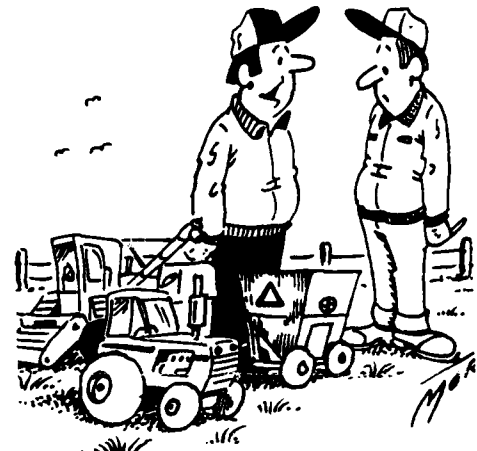
Insights

Management of Endangered Wildlife. Dr. Patrick Redig, Director of the Raptor Rehabilitation Center, in St. Paul Student Center at noon.

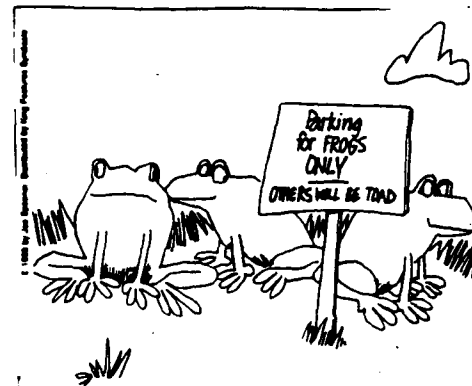
MONDAY, MARCH 5

Soil Science Seminar

Root system stress and responses to soil mechanical resistance. Zena Kassa in 375 Borlaug Hall at 3:00 p.m.



"I just raise small grain."



DEPARTMENT OF AGRONOMY & PLANT GENETICS

University of Minnesota, St. Paul

FACULTY MEETING

There will be a faculty meeting in Agronomy and Plant Genetics on Monday, March 5 at 8:00 a.m. in 306 Borlaug Hall.

ELLING HONORED

Dr. Laddie J. Elling was inducted into the Hall of Fame of the Red River Valley Winter Shows on February 17, 1990. He is the sixtieth individual so honored in the 80 year history of the show. Dr. Elling was cited for his assistance in judging the Crops Show for many years, his work with students from the Valley Area at the University of Minnesota-St. Paul, and his research and extension work with the Grass-Legume Seed Industry in northern Minnesota.

FAX NUMBER AT WASECA

The Southern Experiment Station at Waseca has a new FAX No. 507-835-3622.

HOST FAMILIES NEEDED FOR MAST

The Minnesota Agricultural Student Trainee (MAST) program needs host families for new trainees for the nights of March 19-21 only. 102 trainees are coming from France, Germany, Sweden, Norway, Ireland, England, South Africa, Australia, New Zealand, Poland, Hungary, Denmark, Switzerland, and Austria. Contact Sue Rains-Johnson at 624-1745 if you wish to participate.

FACULTY PLEASE SIGN OUT

Faculty: Please remember to sign out on the board or call when you are going to be away from your office. Thank you

GRAD CLUB POTLUCK SOCIAL

Attention Graduate Students: The Grad Club will hold a potluck winter social on March 3, 1990, at 5:00 p.m. in 306 Borlaug Hall. Department family and friends are welcome. There will be games and fun for all. Please sign up for the dish you will bring on the sheet outside 411 Borlaug Hall.

US-IRISH COOPERATION

The USDA-CSRS is now accepting pre-proposals for short-term (one-six weeks) exchanges of scientists between the U.S. and the Republic of Ireland during 1990 and early 1991. See Avis for details.

POEM

I like my new bifocals,
My dentures fit just fine,
My hearing aid is perfect,
But Lord I miss my mind!

PHYSICAL PLANT BUILDING AUDIT

Physical Plant staff will be doing an audit of the physical condition of all the buildings on the St. Paul Campus during the month of March 1990. Each room in every building needs to be entered.

Please cooperate with the auditors when they come to your office or lab. Thank you. If you have any questions please call Martin Gerads at 624-2288.

MIKE BOEHLJE'S CONDITION

Dr. Boehlje, Head of Ag. Economics, continues to show tremendous improvement after his recent auto accident. He has been moved to Room 315c of Metropolitan Mt. Sinai Medical Center in Minneapolis. He hopes to go home in about a month.

NEW POSITION

Congratulations to Mike Anderson who recently accepted a position as an Assistant Professor in the Agronomy Department at Oklahoma State University as a plant biochemist. Mike will probably continue to work in the area of mechanisms of herbicide resistance while there. The position starts June 1st, 1990. Good luck with the new position.

NEW MINNEAPOLIS PHONE BOOKS

We will receive new 1990-91 Minneapolis White and Yellow Pages on Monday, March 5. In order to get new books you must bring your old books to 411 Borlaug Hall and write your name on the list. This new system will promote recycling of old phonebooks. 60 tons of Minneapolis phonebooks are delivered on the Twin Cities Campus. Prior collection methods have yielded less than 25% recycling.

KEYS FOUND IN HORTICULTURE

Two silver keys were found in front of Horticulture (Alderman Hall). These are not University keys but are car or house keys. If you have lost some keys go to 305 Alderman Hall and see Kathy.

FLOWER AND GIFT FUND

Thanks to all of you for your generous contributions to the Flower and Gift Fund this year. Our fund has a balance of \$681.65 and we have six sweatsuits on hand for new babies.

The Flower and Gift Committee

Q. How can a farmer double his income?
A. Put out a second mailbox.

NORTH CENTRAL ASA MEETINGS

The North Central Branch of the American Society of Agronomy Annual meeting will be held on the St. Paul Campus, July 30-31, 1990. The meetings will be broadened to include programs for biotechnologists, advising agronomists, academic faculty and students.

WINTER FACULTY ASSEMBLY

The College of Agriculture will hold a Winter Quarter Faculty Assembly on Tuesday, March 13 from 9-11 a.m. in 335 Borlaug Hall. Submit agenda items to Paulette Collins, 277 Coffey Hall, by March 7. **Note:** COA Faculty Assembly Meetings are open to all faculty, academic staff, civil service personnel, and students in the College.

SEMINARS THIS WEEK

MONDAY, MARCH 5

Plant Breeding Seminar

Variety development for multiple cropping systems: Methods and challenges. Abdul Kamanzi in 306 Borlaug Hall at 4:00 p.m.

Weed Science Discussion Group

Pete Dotray and Kim Evenson will discuss journal articles in 306 Borlaug Hall at noon.

Soil Science Seminar

Root system stress and responses to soil mechanical resistance. Zena Kassa in 375 Borlaug Hall at 3:00 p.m.

Forest Resources Seminar

The effect of large cluster size forest type area estimation. Timothy Riegel in 100 Nat. Res. Admin. Bldg. at 3:00 p.m.

TUESDAY, MARCH 6

Plant Physiology Seminar

Inositol lipid-mediated transmembrane signalling in the green alga *Dunaliella salina*. Guy Thompson in 335 Borlaug Hall at 3:00 p.m.

Plant Pathology Seminar

Counting *Verticillium* spores in potato vascular tissues to measure host resistance. German Hoyos in 365 Borlaug Hall at 4:00 p.m.

WEDNESDAY, MARCH 7

Agronomy Seminar

New industrial oilseed crops. Dr. Robert Kleiman, USDA-ARS Northern Regional Research Center, Peoria, IL in 335 Borlaug Hall at 4:00 p.m.

Ecology Seminar

Molecular genetics of the African lion. Craig Packer in 313 Zoology at 3:30 p.m.

THURSDAY, MARCH 8

Genetics and Cell Biology Seminar

The molecular structure of yeast kinetochores. Dr. Kerry Bloom, Univ. of North Carolina in 70 BioSci at 3:30 p.m.

POSITION ANNOUNCEMENTS

- Environmental Plant Physiologist, Dept. of Botany and Plant Sciences, Univ. of California, Riverside, CA.
- Two positions: Assistant Director, Ag./Natural Resources; and Extension Associate Livestock/Farm Management, North Dakota State Univ. Extension Service, Fargo, ND.
- Extension Assistant Professor - Crop Management Specialist, Dept. of Plant, Soil, and Entomological Sciences, Moscow.
- Turfgrass Extension/Research Specialist, Dept. of Horticulture, Oklahoma State Univ., Stillwater, OK.
- Area Extension Agent-Tri River Area, Crop Production, Colorado State University, Fort Collins, CO.
- Senior Officer, Fertilizer and Plant Nutrition Service, Land and Water Development Division, Food and Agricultural Organization, of the United Nations.
- Plant Research Associate with skills in plant transformation, biochem., molecular biol., and plant micropropagation. Frito-Lay, Inc., Rhinelander, WI.
- Director of Professional Services for ASA in Madison, WI.
- Technician/Corn Breeding Nursery Management, Garst Seed Company, Sleepy Eye, MN.
- Asst. or Assoc. Agronomist; Manager - Kansas Crop Performance Testing Project, Kansas State Univ., Manhattan.
- Extension Weed Science Specialist, Montana State Univ., Dept. of Plant and Soil Science, Bozeman, MT.
- Director, Foundation Seeds Program, Dept. of Agronomy, Univ. of Wisconsin, Madison, WI.
- Plant Breeder, Svalof Seed Ltd., Lindsay, Ontario, Canada.
- Two positions: Regional Horticulture Specialist - Vegetable Crops; and Faculty position in Viticulture, Purdue University, West Lafayette, IN.



Agronomy Gleanings

Department of Agronomy and Plant Genetics March 9, 1990
University of Minnesota, St. Paul, Minnesota

UNDERGRADUATE BANQUET

The Undergraduate Spring recognition banquet will be held on Tuesday, April 10 at the Earle Brown Center. The evening will start with a reception (cider and cheese) at 5:45, the banquet will follow from 6:30 to 8:30 p.m. The cost is \$8.00 for staff. Purchase tickets from Pat Kessler in 302 Agronomy. Mark your calendars and plan to join us in recognizing the academic and leadership achievements of our undergraduates. This is also an excellent opportunity to meet parents of our students and inform them of the good things happening at the University of Minnesota. Larry Smith

FAREWELL PARTY FOR HEICHEL

The Social Committee has planned a Going Away Coffee for Gary Heichel for Thursday, March 22 at 3:00 pm in 306 Borlaug Hall. Dr. Heichel has accepted the position of Head of the Department of Agronomy at the University of Illinois in Urbana. If you would like to participate in the program and have an opportunity to speak please contact Muriel Mapes or Nancy Ehlke.

PROJECT REVIEWS

Several research projects are up for review this year. The seminars are scheduled for 12 noon to 1:30 p.m. Each project is allotted 45 minutes with 15-20 minutes intended for discussion. Please mark your calendars and plan to attend.

Wednesday, March 21

David Somers
Steve Openshaw

Friday, March 23

Dan Putnam
Roger Becker

Wednesday, March 28

Jim Orf
Don Rasmuson

NEW GRANDSONS

Avis Kunkel is a grandmother for the second time. Her daughter had a baby boy on Thursday, March 8. He weighed 9 lbs. 13 oz. and they have named him Samuel Adam. Congratulations Avis!

Judy Slyter is a grandmother for the first time. Her daughter-in-law had a baby boy on Friday, March 9. He weighed 6 lbs. 10 oz. and they have named him Ryan Nicholas. Congratulations Judy!

VISITOR FROM BRAZIL

Sandra Milach is a visiting scholar from Federal University of Rio Grande do Sol at Porto Alegre, Brazil. Sandra recently received her M.S. there and is now associated with their wheat and oat projects. During her two month visit to the University of Minnesota, she will be working with Dr. Howard Rines on tissue culture and haploid production in oats. Her visit is sponsored by the Brazilian National Council for Scientific and Technological Development (CNPq) and the Secretariat for Human Resource Development in Strategic Areas (RHAE).

CONCERT TICKET FOR SALE

Mel Tillis concert on March 25. One ticket available (\$12.50) Contact Jayanti Suresh at 625-1208

SEMINARS THIS WEEK

MONDAY, MARCH 12

Plant Breeding Seminar

Corn Ears: More than meets the eye!
John Doble, Dept. of Plant Biology, in 306 Borlaug Hall at 4:00 p.m.

Forest Resources Seminar

A question of values: ORV/ATV use and abuse in Minnesota forests. Jeff Emmel in 100 Nat. Res. Admin. Bldg. at 3 p.m.

TUESDAY, MARCH 13

Soil Science Seminar

Stalk NO_x concentration as a reliable test for corn N nutrition. Patrick Kelly, in 375 Borlaug Hall at 9:30 a.m.

Plant Physiology Seminar

Regulation of gene expression during leaf and chloroplast development. John Mullet, Dept. of Biochem. and Biophysics at Texas A&M Univ. in 335 Borlaug Hall at 3:00 p.m.

Plant Pathology Seminar

Wild relatives of *Triticum* as a source of resistance to *Puccinia* species. Beatriz Perez in 365 Borlaug Hall at 4:00 p.m.

WEDNESDAY, MARCH 14

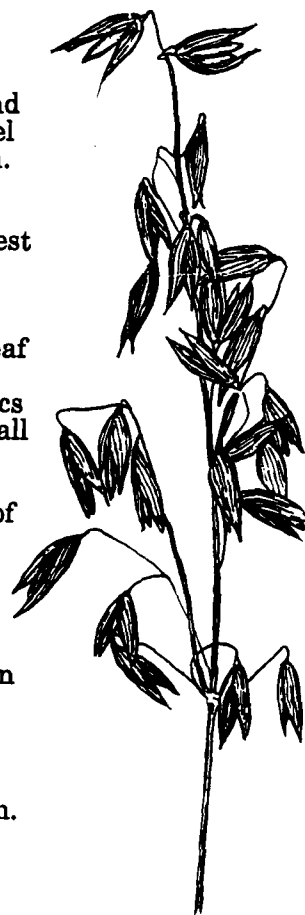
Agronomy Seminar

Mechanisms of Crop Rotation Effects. Alicia Borowski, Dept. of Horticulture in 306 Borlaug Hall at 4:00 p.m.

THURSDAY, MARCH 15

Genetics and Cell Biology Seminar

Approaches to studying MAP (microtubule-associated protein) function. Dr. Joanna Olmsted, Biology, Univ. of Rochester, in 70 BioSci at 3:30 p.m.



POSITION ANNOUNCEMENTS

- Dean, College of Liberal Arts, Univ. of Minn., Duluth.
- Vice Chancellor for Academic Administration, Univ. of Minn, Duluth.
- Asst. Prof. and State Ext. Agronomist - Soybeans, Agronomy Dept., Univ. of Missouri, Columbia, MO.
- State Extension Forage Agronomist, Dept. of Agronomy, Univ. of Missouri at Columbia, MO.
- Agronomy/Soils Instructor, Cloud County Community College, Concordia, Kansas.
- Asst. Prof. of Agronomy, Rice Research and Extension Center, Univ. of Arkansas, Stuttgart, Arkansas.
- Asst. Prof., Crop Science Department, California Polytechnic State Univ., San Luis Obispo, CA.
- Asst. Prof., (Soil-Nutrient-Water Relations), Univ. of Florida, Institute of Food and Ag. Sciences, Lake Alfred, Florida.
- Ag. Extension Specialist, National Program Leader (Agronomy), USDA Extension Service, Washington, DC.

UPCOMING EVENTS

Make sure these events are marked on your calendar.

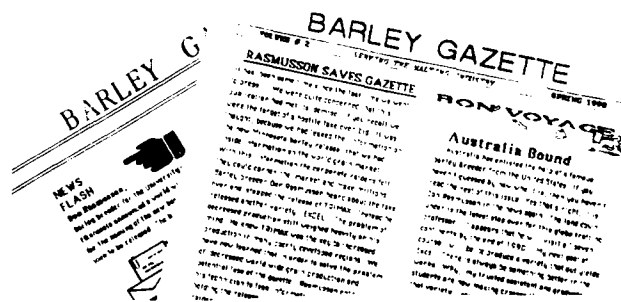
- March 13: Faculty Assembly in 335 BH
- March 15: Farm Family Rec. Banquet
- March 16: County Ext. Day on Campus
- March 21: Proj. Rev. Somers/Openshaw
- March 22: Farewell Party for G. Heichel
- March 23: Proj. Rev. Putnam/Becker
- March 28: Proj. Rev. Orf/Rasmusson
- April 2: Hayes Lecture and Award
- April 4: Civil Service Awards
- April 10: Undergrad Banquet
- April 30: FFA Students Tour

BOAT FOR SALE

80 Lund (16') Pike DLX D-85-50 H.P.
Mercury Motor. Power Tilt and Trim.
Bow Trolling Motor. 3 seats. Live well.
H.D. Shorelander Trailer. Spare tire.
Cover. Excellent Condition. 645-2070.

AIRLINE TICKETS FOR SALE

One round trip airline ticket from Minneapolis/St. Paul to Los Angeles, San Francisco, or Seattle for sale. Return has to be flown before April 22. If interested contact Roberto Tuberosa (mail box #5 in 411 Borlaug Hall).



REWARD! REWARD! REWARD!

A reward of \$5 has been (tentatively) offered for any information leading to the discovery of the person or persons responsible for the publication of an underground newsletter in our department known as the "Barley Gazette". This newsletter has appeared twice to our knowledge and has dared to lampoon our beloved barley breeder. If you have information please leave a note in mailbox #116. Squealers shall remain anonymous. **Caution:** These criminals are armed with a computer, graphics package, and sense of humor and should be approached with caution; they might make fun of you next.

Agronomy Gleanings

March 16, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

PROF. DEVELOPMENT WORKSHOP

Graduate Students: The Professional Development Workshop will be held Saturday, March 31. Watch your mailboxes for more information.

GRADUATE STUDENT DISCUSSION

Dr. Charles Hess will meet with the graduate students of our department at 7:30 p.m. on Sunday, April 1 in Room 306 Borlaug Hall. Dr. Hess is the Assistant Secretary of Science and Education in the U.S. Dept. of Agriculture and will present this year's H.K. Hayes Lecture on April 2. This promises to be a very stimulating discussion, so plan to attend!

PLEASE SAVE POP BOTTLES

Please save your 1 or 2 liter plastic pop bottles for Doug Miller. He needs them for an experiment. Give them to Doug or Brad Kinkaid. Thank you.

DISCUSSION OF BRUN POSITION

There will be an open discussion of all aspects of the crop biochemistry position and position description for the benefit of the search committee on Thursday, March 22 at noon in 306 Borlaug Hall.

AGRO 8250, ADV. PLANT GENETICS

Attention Graduate Students: AGRO 8250, Advanced Plant Genetics, will meet at 10:40 am, Tuesday, March 27 in 210 Borlaug Hall. This time is different from that given in the Spring Schedule and avoids a conflict with P1Ph 5182, Plant Metabolism. If you have questions see Dave Somers or Burle Gengenbach.

SPRING QUARTER

Spring quarter classes begin on March 26. There are spring quarter schedules available in 411 Borlaug Hall.

GRANT INFORMATION

We have received information on CSRS/USDA grants available to study Acid Precipitation. These grants will support research for periods of up to three years. See Avis for details.

EARRING FOUND

One silver, snake shaped, pierced earring was found outside of Borlaug Hall. Contact Betsy at 624-7241 if it is yours.

MINUTES OF LAND UTIL. MEETING

The minutes from the Land Utilization Committee meeting held February 23 are available for review in 411 Borlaug Hall. These minutes include information on a proposed Child Care Center on or near campus. See Lynne if you would like to read these minutes. You can share your opinions on the proposed sites with one of the committee members from our department (Stuthman, Warnke).

HAMM MEMORIAL SCHOLARSHIPS

The College of Agriculture is now accepting nominations for graduate or undergraduate students for the Philip C. Hamm Memorial Scholarship Program. These scholarships are for students in plant sciences and related disciplines. The graduate award is \$1,000 and the undergraduate award is \$500. These awards are based entirely on merit. The deadline for nominations is April 12, 1990. There are notices on the bulletin boards and questions should be directed to Keith Wharton at 624-7792.

UNDERGRADUATE BANQUET

The Undergraduate Spring recognition banquet will be held on Tuesday, April 10 at the Earle Brown Center. The evening will start with a tour of Borlaug Hall at 5:00 followed by a reception (cider and cheese) at 5:45, the banquet will follow from 6:30 to 8:30 p.m. The cost is \$8.00 for staff, \$4.00 for undergraduates. Purchase tickets from Pat in 302 Agronomy or from Sheila in 411 Borlaug. Make your reservations by April 6. Mark your calendars and plan to join us in recognizing the academic and leadership achievements of our undergraduates. This is also an excellent opportunity to meet parents of our students and inform them of the good things happening at the University of Minnesota. Larry Smith

FAREWELL PARTY FOR HEICHEL

The Social Committee has planned a Going Away Coffee for Gary Heichel for Thursday, March 22 at 3:00 pm in 306 Borlaug Hall. Dr. Heichel has accepted the position of Head of the Department of Agronomy at the University of Illinois in Urbana. If you would like to participate in the program and have an opportunity to speak please contact Muriel Mapes or Nancy Ehlke.



PROJECT REVIEWS

Several research projects are up for review this year. The seminars are scheduled for 12 noon to 1:30 p.m. Each project is allotted 45 minutes with 15-20 minutes intended for discussion. Please mark your calendars and plan to attend.

Wednesday, March 21

David Somers
Steve Openshaw

Friday, March 23

Dan Putnam
Roger Becker

Wednesday, March 28

Jim Orf
Don Rasmusson

Project outlines on these projects are available for review at Avis' desk.

AIRLINE TICKET FOR SALE

One round trip airline ticket from Minneapolis/St. Paul to Los Angeles, San Francisco, or Seattle for sale. Return has to be flown before April 22. If interested contact Roberto Tuberosa (mail box #5 in 411 Borlaug Hall).

CONCERT TICKET FOR SALE

Mel Tillis concert on March 25. One ticket available (\$12.50) Contact Jayanti Suresh at 625-1208

SEMINARS THIS WEEK

MONDAY, MARCH 19

Weed Science Discussion Group
The Biocontrol Program for Weeds in Minnesota. Don Wyse in 306 Borlaug Hall at noon.

Soil Science Special Seminar
Biodegradation rates of organic chemicals in subsurface solids samples. Dr. Durell Dobbins, Microbial Ecologist for BIOTROL, Inc. of Chaska, MN, in 375 Borlaug Hall at 9:00 a.m.

SUMMER AND FALL FIELD DAYS

Mark these summer and fall field days on your calendar:

June 26	Waseca
June 27	Lamberton
July 12	Morris
July 18	Crookston
July 19	Grand Rapids
Sept 12	Morris
Sept 13	Lamberton
Sept 14	Waseca

NEXT FACULTY MEETING

The next faculty meeting will be held on Friday, April 20 at 1:30 p.m. in 306 Borlaug Hall.

POSITION ANNOUNCEMENTS

- Extension Specialist, Crops and Soils, South Central Area of Kansas, Cooperative Extension, Kansas State University, Manhattan, KS.
- Project Coordinator - Anoka Sand Plains Demonstration Project, Minn. Extension Service, U of M, St. Paul.
- Postdoc with Ph.D. in Cellular or Molecular Biology or related discipline, Plant and Soil Science Dept., Montana State Univ., Bozeman, MT.
- Asst. Prof., Weed Science/Weed Ecology, Dept. of Crop, Soil, and Range Sciences, Kansas State Univ., Manhattan, KS.
- Research Coordinator with the USAID/MIAC Dryland Ag. Research Project in Settat, Morocco, through the Univ. of Nebraska.
- Instructor in Dept. of Agronomy, Louisiana State Univ., Baton Rouge, LA.

HOSTESS TO GUEST: "I hate to take you away from the party but your babysitter is calling. She wants to know where you keep the champagne glasses."

MAN, eyeing himself critically in a clothing-store mirror, to wife: "I remind myself of that label on the cereal box. I look as if my contents settled during shipping."
—James Dent in *Charleston, W.Va., Gazette*

Why does the person who runs five miles a day for exercise need a remote control for the TV?
—Doug Larson, *United Feature Syndicate*

How is it that at a hotel when you want to sleep, they want to make up the room at 7 a.m.? And when you want to check in, they still haven't made up the room at 7 p.m.?
—Robert Orben in *The Wall Street Journal*

How come the threat of showers postpones more yard chores than golf games?
—Doug Larson, *United Feature Syndicate*

Why is a newspaper ten times more interesting when somebody across the table is reading it?
—Nugget

How come your air mattress springs a leak on the first night of a five-night backpacking trip and not when your kid was using it as a trampoline on the driveway?
—Patrick R. McManus in *Outdoor Life*

Agronomy Gleanings

March 23, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

PROF. DEVELOPMENT WORKSHOP

Graduate Students: Reserve Saturday, March 31st for the 1990 Professional Development Workshop. The workshop will feature five 1-hour sessions and run from 8:30-3:00. The cost is \$3.00 and includes lunch and refreshments. Be sure to return your RSVP by Tuesday, March 27 to Brent Sorenson and plan to attend. Coffee and rolls will be served starting at 8:15 a.m.

NOTE FROM GARY HEICHEL

I want to convey my gratitude to you and to your faculty and staff for financial, intellectual, and personal support for the past 14 years. Scarceley a day passes that I fail to act or advise using nuggets of wisdom gained from my many years of association with this department. Although a bit of me will remain behind when I leave, I will depart with a bounty of ideas and experiences gained here. I look forward to staying in contact with the department in the years ahead.

NEW VICE PRESIDENT

C. Eugene Allen has accepted the position of Vice President for Agriculture, Forestry, and Home Economics, effective April 6, 1990, pending approval by the Board of Regents.

NEW GRADUATE STUDENTS

Please welcome four new graduate students to the department:

Sangyong Ma, who has recently arrived from Korea, will be working with John Gronwald on the herbicide mode of action project. His office is 306 Agronomy.

David DeKoyer, from Ontario, Canada, will be working with Deon Stuthman on the Oat Breeding project toward the M.S. degree. His office is 303 Agronomy.

Carlos Raupp, from Santa Cruz, Brazil, via the Ivory Coast, has joined Steve Openshaw on the corn breeding project to work toward the M.S. degree. His office is 200 Agronomy.

Mbassa Ndiro, from Cameroon, has also joined Steve Openshaw's project. His office is 413 Agronomy.

VISITOR WITH DON BARNES

Yangping Zhu, from the People's Republic of China, will be visiting in Don Barnes lab for one year. She is located in 112 Crops Research. Please welcome her to the department.

NEW CIVIL SERVICE STAFF MEMBER

Please welcome **Lai Nguyen** to the department. Lai will be working with Howard Rines. Please welcome him to the department.

PACKARD FELLOWSHIPS

We have received information on the David and Lucile Packard Foundation Fellowships for young faculty engaged in research in the natural sciences. Each fellowship provides \$100,000 per year for five years. Nominees must be young faculty members in the first three years of their faculty careers (as of May, 1990). If you want to see this information check with Lynne in 411 Borlaug. Deadline is April 23.

UNDERGRADUATE BANQUET

The Undergraduate Spring recognition banquet will be held on Tuesday, April 10 at the Earle Brown Center. The evening will start with a tour of Borlaug Hall at 5:00 followed by a reception (cider and cheese) at 5:45, the banquet will follow from 6:30 to 8:30 p.m. The cost is \$8.00 for staff, \$4.00 for undergraduates. Purchase tickets from Pat in 302 Agronomy or from Sheila in 411 Borlaug. Make your reservations by April 6. Mark your calendars and plan to join us in recognizing the academic and leadership achievements of our undergraduates. This is also an excellent opportunity to meet parents of our students and inform them of the good things happening at the University of Minnesota. Larry Smith

INTERNATIONAL TRAVEL GRANTS

The National Science Foundation annually makes about 200 travel awards to enable outstanding graduate students to attend NATO Advanced Study Institutes held in Europe. Advanced Study Institutes are two-week tutorial courses conducted by leading scientists and engineers. NSF grants consist of a round-trip ticket. Check the bulletin board outside 411 Borlaug for details.



PROJECT REVIEWS

Several research projects are up for review this year. The seminars are scheduled for 12 noon to 1:30 p.m. Each project is allotted 45 minutes with 15-20 minutes intended for discussion. Please mark your calendars and plan to attend.

Friday, March 23

Dan Putnam
Roger Becker

Wednesday, March 28

Jim Orf
Don Rasmuson

Project outlines on these projects are available for review at Avis' desk.

SEMINARS THIS WEEK

TUESDAY, MARCH 27

Plant Biology Seminar

Haploids, wild species, and 2n gametes in potato breeding. Georgia Yerk in Room 70 BioScience at 4:00 p.m.

Forest Resources Seminar

A discussion on tropical deforestation and the global environment. Led by Dr. Norman Myers, World Renowned Consultant on Global Environment and Development in Room 110 Green Hall at 3:00 p.m.

WEDNESDAY, MARCH 28

Agronomy Seminar

Whole-farm impacts of reduced chemical use. Dr. Kent Olson, Dept. of Ag. and Applied Economics in 306 Borlaug Hall at 4:00 p.m.

Ecology Seminar

Microbial ecology - an oxymoron? Dr. Carlos Pedro-Alio from Barcelona, Spain, in 313 Zoology at 3:30 p.m.

FLY-FISHING CLASSES

The Bell Museum will teach two courses this spring on fly-fishing: Insects and Fly-Fishing, Tuesday evenings 7-9:30, March 27-April 24, \$49; and Caddisflies and Fly-Fishing, Tuesday evenings 7-9:30, May 1 and 8, \$20. Call 624-1852, 9 a.m. to 4 p.m., Tues-Fri to register.

SUMMER COURSE: SUSTAINABLE AG

The Univ. of California, Davis, will offer a summer course, Introduction to Sustainable Agriculture Systems, June 25-August 31. Check the bulletin board for details.

POSITION ANNOUNCEMENTS

- Coordinator, Office of Minority and Special Student Affairs, U of M, Minneapolis, MN.

- Research Scientist, Soybean RFLP Project, Dept. of Biotechnology Research, Pioneer Hi-Bred International, Inc., Johnston, IA.

- Research Technologist I, Dept. of Agronomy, U of Nebraska, Lincoln, NE.

- Integrated Pest Management Coordinator for Sustainable Agriculture, State of Minnesota, Dept. of Ag., St. Paul.

Marriage is like a three-ring circus:
Engagement Ring, Wedding Ring and
Suffering.



*"I'll tell you my secret. I water them
with chicken soup."*

"How's THAT BOOK you're reading?" one robot asked another. "Is it any good?"

"Nash. Just the usual," replied her companion. "Boy meets girl. Boy loses girl. Boy builds girl."

OVERHEARD on the links: "I figured out why this crazy game is called golf—it's because all the other four-letter words have been taken."

Agronomy Gleanings

March 30, 1990

MW
9Ag866

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

UPDATE ON MRS. BURNSIDE

Delores Burnside continues her chemotherapy one week per month. Recent tests have shown that the cancer has metastasized into the bone. She will now undergo an additional series of radiation treatments. Orvin

PROF. DEVELOPMENT WORKSHOP

Graduate Students: The Professional Development Workshop will be held Saturday, March 31st. The workshop will feature five 1-hour sessions and run from 8:30-3:00. Coffee and rolls will be served starting at 8:15 a.m.

THANK YOU FROM HEICHEL

Dear Friends: We thank you for the fine farewell coffee, and gifts of friendship and art. The departmental gift, the 'Loon Reflections' batik by Joan Gray, will occupy a place of prominence in our home. Your gifts of friendship will always occupy a place of special prominence in our hearts. Our very best to you all. Gary and Iris Heichel

H.K. HAYES LECTURE AND AWARD

The H.K. Hayes Lecture will be presented by Charles E. Hess, Asst. Sec. of Science and Education, USDA, on Monday, April 2, at 8:00 p.m. in 135 Earle Brown Center. Lori Marshall will receive the H.K. Hayes Graduate Student Award. Plan to attend. Dr. Hess will be visiting in the department throughout the day on Monday.

GRAD STUDENT DISCUSSION

Dr. Charles Hess will meet with the graduate students of our department at 7:30 p.m. on Sunday, April 1 in Rm 306 Borlaug Hall. This promises to be a very stimulating discussion, so plan to attend.

DOCTORAL DIS. FELLOWSHIPS

Graduate School Doctoral Dissertation Fellowship nominations for 1990-91 are due to the Graduate School on Friday, May 4. These fellowship are intended to enable promising Ph.D. candidates to devote full time effort to the research and writing of the dissertation during the next year. See your DGS for details.

AIRLINE TICKETS FOR SALE

Two round trip tickets to New York, Boston, Chicago, Cleveland, Columbus, Dallas, New Orleans, Washington DC, Denver, and 20 more destinations. Good until July 31, 1990. Price: \$236.00 total. See Daniel Basigalup.

CIVIL SERVICE AWARD CEREMONY

The Civil Service Award Ceremony will be held on Wednesday, April 4 at 3:00 p.m. in 306 Borlaug Hall. The Outstanding Civil Service Award and Longevity Awards will be presented. New civil service staff will be introduced. Refreshments will be served.

GRAD CLUB MEETING

The Spring Quarter Agronomy Grad Club meeting will be at 3:30 p.m. on Friday, April 6th in 306 BH. Officers will be elected. Plan to join in the discussion of important topics including the movement toward unionization of Grad Students by GSEA. Refreshments provided.
Grad Club Officers

HOLIDAY SCHEDULE FOR 1990-91

Mark your calendars, the following University holiday schedule has been approved for Civil Service Staff on the Twin Cities campus for 1990-91.

Memorial Day (1990)	- May 28, 1990 (Mon)
Independence Day	- July 4, 1990 (Wed)
Labor Day	- Sept. 3, 1990 (Mon)
Thanksgiving	- Nov. 22 & 23 (Th/Fr)
Christmas	- Dec. 24 & 25 (M/Tu)
New Year's Day	- Dec. 31/Jan. 1 (M/Tu)
Martin Luther King	- Jan. 21, 1991 (Mon)
Memorial Day	- May 27, 1991 (Mon)

The eleventh holiday has been designated a personal holiday for 1990-91.

UNDERGRADUATE BANQUET

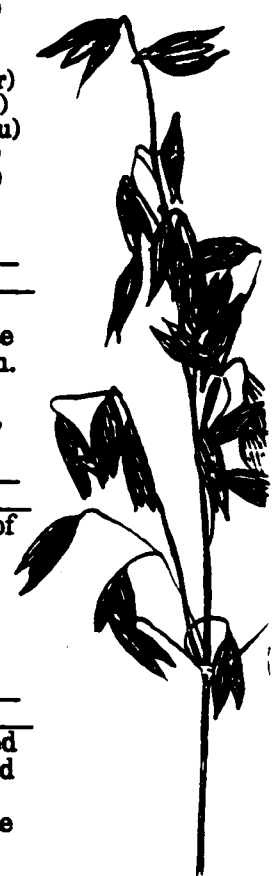
The Undergraduate Spring Recognition Banquet will be Tuesday, April 10 at the Earle Brown Center starting at 6:30 p.m. Get your tickets by April 6 from Pat in 302 Agronomy or Sheila in 411 Borlaug, \$8 faculty and staff, \$4 students.

WINNING GRANTS TAPES

The Ag. Exp. Station has made a copy of a set of ten, hour-long cassette tapes entitled "Winning Grants" by David Bauer. They will be in the Plant Path Library (395a Borlaug Hall) and can be checked out.

CARS MOVED OUTSIDE

The Departmental vehicles will be moved outside as of today. They will be parked in the lot on the west side of Crops Research. There are 3 cars now and the 4th (a pickup) will be taken out of storage soon. Remember to keep the cars clean (inside and out) and fill them with gas when you are done using them.



Daylight savings time starts on Sunday, April 1, 2:00 a.m. Remember to set your clocks ahead by one hour.

GOPHER CROPS AND SOILS CLUB

The Gopher Crops and Soils Club will hold a Crops Kits Workshop and Regional Committee Planning meeting on Tuesday, April 3 at 5:00 p.m. in A101 Agronomy.

NEW GRAD REGISTRATION POLICY

Attention Graduate Students: Beginning fall quarter 1990, the Graduate School will rejoin the rest of the University in requiring that students register no later than the end of the second week of the quarter. Friday of the second week of the quarter will be the last day to: register, add a course, change grading option, and cancel a course without a "W" appearing on your transcript. You will get information on this from the Grad School when you register and in the fall quarter class schedule.

SEMINARS THIS WEEK

MONDAY, APRIL 2

Soil Science Seminar

Colombian soils current use of its land, Martha Helena Chaverra, in 375 Borlaug at 3:00 p.m.

Forest Resources Seminar

Performance comparisons of different types of containerized seedlings and bareroot black and white spruce stock planted in spring and fall in northern Minnesota. Robert Enis, Rm 100 Nat. Resources at 3:00 p.m.

TUESDAY, APRIL 3

Plant Biology Seminar

Floral development: a key to evolution among legumes. Shirley Tucker, Dept. of Botany, Louisiana State Univ., in Rm 70 BioScience at 4:00 p.m.

WEDNESDAY, APRIL 4

Agronomy Seminar

Management of Potassium in a Ridge Till System for Corn. David Geier in 306 Borlaug Hall at 4:00 p.m.

Ecology Seminar

Sonar studies of plankton and fish. Dr. Robert Megard, in 313 Zoology at 3:30 p.m.

Ag. Perspectives: Farming by the Book Agriculture Club and Societies in Early Rural Minnesota. Jim Mattson, Manager, Oliver H. Kelley Farm, in the Worldspan Room at noon.

THURSDAY, APRIL 5

Genetics and Cell Biology

Mechanistic Models of Leukocyte Random Motility & Chemotaxis. Bob Tranquillo, in 335 Borlaug Hall at 3:30 p.m.

FRIDAY, APRIL 6

Forest Resources Seminar

Timber as a Tax Shelter. Donna Byrne, in 203 Green Hall at 3:00 p.m.

IBM AND COMPATIBLE VIRUS

A virus has been detected on a few computers within the Agronomy Department. Computer viruses are small programs that can copy themselves into other programs (.EXE and .COM) and thereby transfer to other computers. Depending on the virus, symptoms may range from irritating messages to loss of data or inability to boot up to a hard drive. The particular virus detected in the department is called the "Stoned" virus and sometimes displays the message "Your computer is now stoned!". In addition, the virus has resulted in boot-up failure on one computer and file access problems on another. The computer in the computer room (318 BH) seems to be the source and users should be aware of this. I have obtained some shareware programs from the microcomputer lab which will detect this and other viruses and remove them from infected systems. Contact me for copies and further information.

Doug Miller, Rm A215 Agronomy

MARK YOUR CALENDARS

The Annual Agronomy Camping, Fishing, and Leisure Trip (formerly Agronomy Fishing Trip) has been scheduled for June 15-17, 1990. Cabins are available for those serious about their fishing or leisure activities. All Agronomy faculty, staff, postdocs, students, and their families or friends are invited to attend. Accommodations will be provided by Cedar Springs Lodge on the sandy shores of spectacular Leech Lake. Information will be coming out soon in your mailboxes.

Mark Matteson

MISSING NOTES

I'd appreciate it if the person who has my notes for "Breeding asexually propagated crops" would contact me as soon as possible.

Thanks, Daniel Basigalup

BRUCE MAXWELL STARTING

Bruce Maxwell will begin his position as assistant professor in weed ecology in our department on Monday, April 2. He will be officed in 404 Borlaug Hall (phone: 625-8237). Please welcome him to the department.

POSITION ANNOUNCEMENTS

- Soil Physicist or Chemist, GOSSYM-COMAX Info. Unit, Starkville, MS.
- Visiting Assistant Professor, Soil Science Dept., North Carolina State Univ., Raleigh, NC.
- Program Coordinator, Midwest Branch of National Wildflower Research Center, Minnesota Landscape Arboretum,

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

CIVIL SERVICE AWARDS

The Outstanding Civil Service Award for 1990 went to Tom Warnke. The following people received longevity certificates: 5 years Jayanti Suresch, Lynne Medgaarden, Jean Swanson; 10 years Eric Ristau, Jeff Roessler, Teresa Schoeder; 15 years Michael McClellen, Donn Vellekson, Tom Warnke; 25 years Duane Smith; 30 years Don Westerberg.

GRAD CLUB MEETING

The Spring Quarter Agronomy Grad Club meeting will be at 3:30 p.m. on Friday, April 6th in 306 BH. Officers will be elected. Plan to join in the discussion of important topics including the movement toward unionization of Grad Students by GSEA. Refreshments provided.

Grad Club Officers

UNDERGRADUATE BANQUET

The Undergraduate Spring Recognition Banquet will be Tuesday, April 10 at the Earle Brown Center starting at 6:30 p.m. Get your tickets by April 6 from Pat in 302 Agronomy or Sheila in 411 Borlaug, \$8 faculty and staff, \$4 students.

EASTER PLANT SALE

The U of M Horticulture Club will hold their annual Easter Plant Sale on Friday, April 13 from 9 to 5 in the St. Paul Student Center.

ST. PAUL RETIREMENT LUNCHEON

The St. Paul Campus Retirement Recognition Luncheon has been set for Tuesday, May 8, in the Earle Brown Continuing Education Center. Tickets at \$3.00 and can be purchased through Avis

SENATOR BOSCHWITZ ON CAMPUS

Senator Rudy Boschwitz will be at the St. Paul Student Center Theatre on Thursday, April 12 at 1:30-3:30 p.m. to discuss agricultural issues. Everyone is welcome.

SPECIAL PH.D. SEMINARS

The Corn-Soybean Rotation Effect on Soil Moisture and Soil and Plant Nutrients, by Philip Copeland in 306 Borlaug Hall at 1:00 p.m. on Tuesday, April 10, 1990

Inheritance of Alpha-Amylase Activity in Barley, by Heidi F. Kaeppler in 306 Borlaug Hall on Thursday, April 12 at 9:00 a.m.

POSITION ANNOUNCEMENTS

- Asst. Prof. and State Extension Agronomist-Soybeans, Dept. of Agronomy, Univ. of Missouri, Columbia, MO.
- Crops and Soils Agent, Chippewa County, U of Wisconsin, Madison, WI.
- Hmong Garden Program Assistant, Milwaukee County, U of Wisconsin, Madison, WI.
- Summer position- Crop Pest Management Technician, U of Minnesota, Morris, MN.
- Chair, Dept. of Plant Pathology, Iowa State University, Ames, IA.
- Asst. Prof., Southeast Kansas Branch Experiment Station, Parsons, KS.

HAMM MEMORIAL LECTURE

Professor E.T. York, Jr. will present the Hamm Memorial Lecture for 1990 on April 12 at 4:00 p.m. in the St. Paul Student Center Theatre. A reception will precede the lecture at 3:15 in the lower level of the Student Center. Prof. York is a distinguished international scholar from the University of Florida. He will discuss global sustainable agriculture. Contact Richard Jones, Entomology at (624-3636), if you are interested in meeting with Dr. York. The Hamm Scholarships will also be awarded.

SPECIAL SEMINAR

Greg Waren and Lawrence Hammond, members of the National 2,4-D Task Force, will be here on Tuesday, April 10 to discuss the re-registration status of 2,4-D. Meeting in 306 Borlaug Hall from 9:30 to 11:30 a.m. This is a good time to ask questions on the status of 2,4-D and other phenoxy herbicides. Contact Bev Durgan for more information.

SEMINARS THIS WEEK

MONDAY, APRIL 9

Soil Science Seminar

Soil physical and crop responses to traffic induced compaction. Jane Fischer Johnson in 375 Borlaug Hall at 3 p.m.

Agricultural Perspectives

When we farmed with horses. In the Worldspan Room of the St. Paul Student Center at 11:00 a.m and noon.

Forest Resources Seminar

Social monitoring in wildland areas, Carolyn Phelps, in 100 Nat. Res. Admin. Bldg. at 3 p.m.

TUESDAY, APRIL 10

Plant Pathology Seminar

Isozyme variation and vegetative incompatibility in the conifer pathogen, Leptographium wageneri, Paul Zambino, in 365 Borlaug Hall at 4:00 p.m.

Plant Physiology Seminar

Aluminum and temperature alteration of cell membrane permeability of Quercus rubra, Junping Chen in 335 Borlaug Hall at 3:00 p.m.

Plant Biology Seminar

Immunocytochemical analysis of sites of synthesis and sites of assembly of cell wall glycoproteins and complex polysaccharides, L. Andrew Staehelin, Univ. of Colorado, in Rm 70 BioScience in 4:00 p.m.

WEDNESDAY, APRIL 11

Ecology Seminar

The co-evolution of self-fertilization and inbreeding depression in Impatiens, by Donald Weller, U of Wisconsin, Madison, in 313 Zoology at 3:30 p.m.

THURSDAY, APRIL 12

Genetics and Cell Biology

Calcium homeostasis in plant cells, Dr. Dale Sanders, Dept. of Biol., York Univ., 335 Borlaug Hall at 3:30 p.m.

A small boy asked his dad what "college-bred" meant.

"Son," his father replied. "college-bred comes from the flour of youth and the dough of old age."

You know you have reached middle age if when the air is springy you're not.

Failure is not the falling down — it's the staying down.

The Internal Revenue Service received a letter containing twenty-five cents from a new taxpayer. He said he understood he could pay his taxes by the quarter.

A termite walked into a tavern and asked, "Is the bar tender here?"

You know you've reached middle age when the only thing you exercise is caution.



LORI RECEIVES HAYES AWARD

Lori Marshall received the seventeenth annual H.K. Hayes Graduate Student Award at a ceremony on Monday, April 2. Present at the ceremony were Regan Charles Casey, Orvin Burnside, Lori Marshall and Charles Hess, presenter of the H.K. Hayes Memorial Lecture.

Agronomy Gleanings

April 13, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

FAREWELL COFFEE

We will have a farewell coffee for Bob Buehler at 3:00 p.m. in 306 Borlaug Hall today.

DR. SMITH RECEIVES TATE AWARD

Dr. Larry H. Smith has been selected as one of the 1989-90 recipients of the John Tate Awards for Undergraduate Academic Advising. The award is presented annually to three individuals who advise undergraduates, only one of the three awards can go to a faculty member who has teaching and advising responsibilities. The other two awards are for full-time academic advisors. The recognition ceremony is April 23, 1990, 3:30-4:20 p.m. with a reception following in the Library of the Campus Club (5th Floor - Coffman Memorial Union). Congratulations Dr. Smith.

GRAD STUDENTS

Please note: Information regarding unionization is posted on the bulletin board outside 411 Borlaug Hall.

ST. PAUL RETIREMENT LUNCHEON

The St. Paul Campus Retirement Recognition Luncheon has been set for Tuesday, May 8, in the Earle Brown Continuing Education Center. The luncheon honors retirees from all St. Paul Campus units. The program consists of a buffet lunch, a ceremony and reception. Tickets cost \$3.00 and can be purchased through Avis. Deadline for ticket purchase is May 2.

CONGRATULATIONS

Heidi Kaeppler and Phil Copeland have successfully completed their Ph.D.s. Congratulations.

INTERNATIONAL GRANTS

The Office of International Education has announced a faculty grant program to support international activities of the faculty. Grants are awarded quarterly and average \$500. Deadlines for applications are: May 15, August 15, November 15 and February 15. More information is posted on the bulletin board outside 411 Borlaug Hall.

CHANCELLOR SOUGHT FOR MORRIS

The U of M, Morris is seeking nominations and applications for the position of chancellor.

FACULTY VOLUNTEERS NEEDED

The College of Agriculture is planning an alumni picnic Sunday, May 20 at the Minnesota Landscape Arboretum in Chanhassen. The event will run from 1:00-7:00 p.m. The Alumni Society would like to have at least three faculty members from each department attend this picnic from 4:00-7:00 p.m. If you would like to volunteer contact Lynne in 411 Borlaug Hall by May 10. Thanks.

CONGRATULATIONS BILL ROONEY

Bill Rooney was awarded a Philip Hamm Memorial Scholarship on Thursday, April 12. Congratulations.

FIRE ALARM TESTING

The fire alarms in the Agronomy Building will be tested on Monday, April 16. The fire alarm horns will sound during the test.

SEMINARS THIS WEEK

MONDAY, APRIL 16

Forest Resources Seminar

Genetic variation in Minnesota quaking aspen as revealed by isozyme analysis. Steve Lund, in 100 Nat. Res. Admin. Bldg. at 3 p.m.

TUESDAY, APRIL 17

Entomology Seminar

Issues involved in bait formulations of grasshopper control. David Walgenbach in 490 Hodson Hall at 3:00 p.m.

Plant Pathology Seminar

Characterization of *Rhizotonia solani* by gas-liquid chromatography of cellular fatty acids. Janell Stevens Johnk in 365 Borlaug Hall at 4:00 p.m.

Insights

Sustainable agriculture in Minnesota--Use of on-farm resources. David Andow from Entomology, noon in Room 110 St. Paul Student Center.

Plant Biology Seminar

DNA variation in natural plant populations. Barbara Schaal, Wash. Univ., in 70 BioScience at 4:00 p.m.

WEDNESDAY, APRIL 18

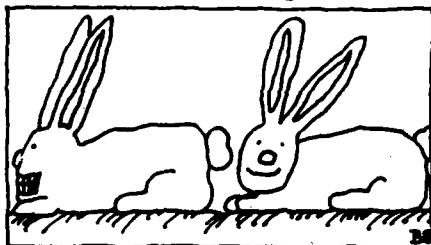
Ecology Seminar

The socio-genetics of honeybees. Dr. Robert Page, U of Calif.-Davis, in 313 Zoology at 3:30 p.m.

THURSDAY, APRIL 12

Genetics and Cell Biology

Genetic control of pollen-pistil activity in self-incompatible petunias. Dr. Pete Ascher in 239 Gortner at 3:30 p.m.



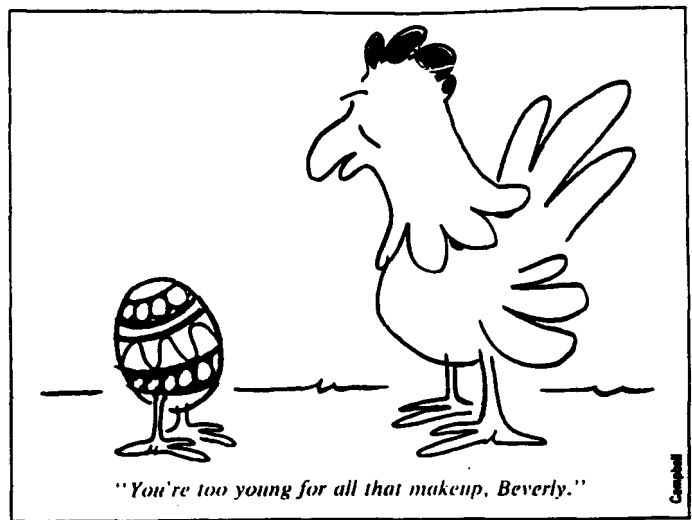
PURCHASE ORDER INFORMATION

Persons placing purchase orders: Pick up your copy of an update and change sheet for your annual contract book. New vendors and important changes in addresses, discounts, contract numbers, etc. are listed. These changes must show on all future purchase orders. University Stores also has a sheet listing new chemical stock items. These things can be picked up in 408 Borlaug Hall.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found in 411 Borlaug Hall.

- Summer temporary employee to assist at the Pioneer Corn Research Station in Glyndon, Minnesota (near Moorhead). June-August.
- Asst. Prof. - Director; Soil, Water and Forage Analytical Laboratory, and Environmental Management Specialist, Dept. of Agronomy, Oklahoma State Univ., Cooperative Ext., Stillwater, OK.
- Asst./Assoc Agronomist/Plant Breeder (soybeans), Mississippi Ag. Exp. Station, Delta Branch, Mississippi State Univ., Stoneville, MS.
- Senior Officer (Plant Breeding and Genetics) in Vienna, Food and Ag. Organization of the United Nations.
- M.S. level soybean breeder, Agrigenetics Company, Madison, WI.
- Agricultural Agent, Polk County, Univ. of Wisconsin, Cooperative Extension, Madison, WI.
- Extension Soil Conservation Specialist, Dept. of Agronomy, Purdue Univ., West Lafayette, IN.



"You're too young for all that makeup, Beverly."



"When Mom and I do this, we usually boil them first."

W.M. MYERS AWARD

The W.M. Myers Outstanding Undergraduate award for 1989-90 went to David Reuter during the undergraduate banquet last Tuesday night. Dr. W.M. Myers was the department head here in Agronomy from 1952 to 1963. This award is presented annually to an outstanding undergrad based on academic achievement, and departmental and community activities.



Have a Happy Easter!
Felices Pascuas!
Joyeux Paques!
Buona Pasqua!

Agronomy Gleanings

April 20, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

LAMBERT MEMORIAL SERVICE

A memorial service will be held for Dr. Jean Lambert on Saturday, April 21, 1990, 3:00 p.m. at St. Anthony Park United Church of Christ, 2129 Commonwealth Avenue, St. Paul, Minnesota. Dr. Lambert passed away on April 19, 1990. Memorials preferred to the church or to the Jean W. Lambert Scholarship Fund in the Dept. of Agronomy and Plant Genetics.

INTERRUPTION OF STEAM SERVICE

The steam service will be interrupted to repair a high pressure steam line on Tuesday, April 24 in the Agronomy Building, between 10 am and 2 pm. This shutdown will affect: sterilizers, reheat system, heating system, distillers and dishwashers. Please notify Physical Plant immediately at 625-4372 of any problems this interruption may cause.

ST. PAUL RETIREMENT LUNCHEON

The St. Paul Campus Retirement Recognition Luncheon has been set for Tuesday, May 8, in the Earle Brown Continuing Education Center. The luncheon honors retirees from all St. Paul Campus units. The program consists of a buffet lunch, a ceremony and reception. Tickets cost \$3.00 and can be purchased through Avis. Deadline for ticket purchase is May 2.

AFRICAN AMERICAN STUDENTS

The 13th Annual Honors Program in Recognition of African American Students recognizing graduating seniors and academic achievers will be held on Wednesday, May 23, 7-9 pm at the HHH Center/Cowles Auditorium. A reception will follow.

SUSTAINABLE AG. SYMPOSIUM

A symposium on ecology and agriculture, sustainable agriculture: Current research, achievements and priorities will be held on Saturday, April 28, 1990, starting at 9:00 a.m. in Borlaug Hall. Special guest: Chuck Davis, Chairman, Minnesota Senate Agriculture Committee.

WATERS TO LEAVE

Luther Waters, director for the Center for Alternative Plant and Animal Products, has accepted the position of chair of the Dept. of Horticulture at the Ohio State University, effective in mid-July.

SEMINARS THIS WEEK

MONDAY, APRIL 23

Forest Resources Seminar

Assessing the effects of land use change on water yield and streamflow pattern, Carol Purchase, in 100 Nat. Res. Admin. Bldg. at 3 p.m.

TUESDAY, APRIL 24

Plant Biology Seminar

Heavy bodies and circumstance: Do amyloplasts "still" play a role in gravity sensing? Fred Sack, Dept. of Botany, Ohio State Univ., Room 335 Borlaug Hall at 4 p.m.

Entomology Seminar

Predatory potential, asexual reproduction and tolerance of *Dugesia dorotocephala* and *Dugesia tigrina* in relation to biological control of mosquito vectors. Dr. F. Nelson, Jackson State University, in 490 Hodson Hall at 3 p.m.

Plant Pathology Seminar

An elicitor of the hypersensitive response from the stem rust fungus. Jan Erik Backlund, in 365 Borlaug Hall at 4 p.m.

Farming by the Book

Beyond the large farm: Can research preserve the family farm? Dr. Vernon Cardwell in Room 110 Student Center at noon.

WEDNESDAY, APRIL 25

Conflict and Change Center

A panel study of nonprofit organization. Dr. Joseph Galaskiewicz, Dept. of Sociology, in 215 Humphrey Center at 3:15 p.m.

Issues in Sustainable Ag

Agricultural impacts on Minnesota wildlife. Al Berner, DNR, in Room 202 Student Center at noon.

THURSDAY, APRIL 26

Genetics and Cell Biology

Genetic analysis of the morphological evolution of maize. Dr. John Doebley in 335 Borlaug Hall at 3:30 p.m.

Biol. Process Technology Institute

Microbial Engineering Seminar: Conjugal gene transfer in gram-positive bacteria. Room 239 Gortner Lab at 12 noon.

CORN AND CULTURE CONFERENCE

The Department of Anthropology, Center for Ancient Studies, will hold a conference and workshop on, "Corn and Culture in the Prehistoric New World", on May 11-13, 1990 at the Nolte Center. Check the bulletin board for details. The cost for the conferences is \$10.

WILCOX ILL

Dr. Clifford Wilcox, superintendent of the Rosemount Experiment Station, was hospitalized for a blood clot in his leg. He is at home now but is still under physician's care.

HICKS HONORED

Dr. Dale Hicks has been selected, by the National Corn Growers Association and ICI Americas, from researchers nominated from colleges across the U.S., to participate in a corn study tour of Western Europe on August 6-20, 1990. The tour will provide the opportunity to be part of a long term effort to improve the efficiency of corn production and enhance utilization of U.S. corn and corn products worldwide.

APARTMENT FOR RENT

1 bedroom apartment for rent, 2082 Como, near Cleveland and Raymond. Call Roberto at 625-4740 for details.

FOR SALE

Sofa bed - \$30, Double bed frame - \$20, Kitchen table and 4 chairs - \$35, Wiesberg-Applied Linear Regression-\$15. Call Roberto at 625-4740 for details.

LUBY ON SABBATICAL

Jim Luby, plant breeding professor in Horticulture, will be on a one year sabbatical in Scotland starting April 1.

ADOPTION

Congratulations to Steve and Leona Openshaw who have officially adopted their children, Olivia and Evan.

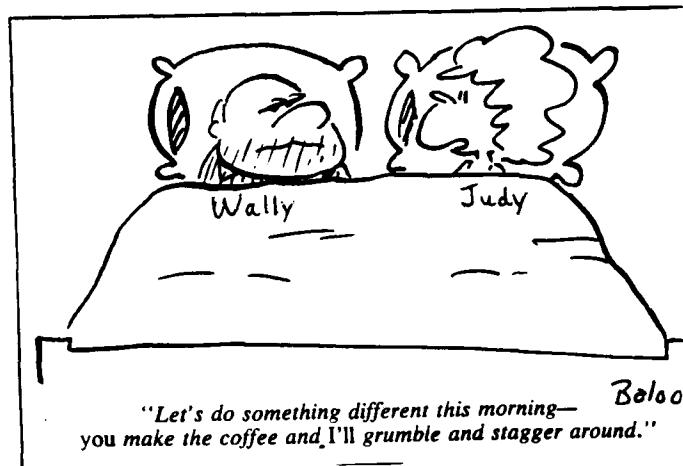
AIR CONDITIONING START-UP

The absorption chillers for Borlaug Hall will be started, temperatures requiring, on May 7, 1990. This date may vary slightly. Call Martin Gerads at 4-2288 with questions.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Part-time position for Director of Minnesota Studies in International Development, U of M.
- Jr. Scientist, U of M, Sugarbeet project at Northwest Exp. Sta., Crookston, MN.
- Farm Advisor-Groundwater Toxicology, Univ. of Calif., Oakland, CA.
- Tenure-track position in forage production, Dept. of Plant Science, Univ. of Manitoba, Canada.
- Assoc. Director, North Atlantic Area, USDA-ARS, Wyndmoor, PA.
- Internships in Sustainable Ag., Center for Rural Affairs, Hartington, NE.
- Assistant in Entomology, Univ. of Florida, Lake Alfred, FL.



UNDERGRAD ASA MEETING

The Gopher Crops and Soils Club will host the Upper Midwest Regional meeting of the student division of the ASA here this weekend. Welcome to participants.

Agronomy Gleanings

Department of Agronomy and Plant Genetics April 27, 1990
University of Minnesota, St. Paul, Minnesota

ST. PAUL RETIREMENT LUNCHEON

The St. Paul Campus Retirement Recognition Luncheon will be held Tuesday, May 8, in the Earle Brown Continuing Education Center. The luncheon honors retirees from all St. Paul Campus units. The program consists of a buffet lunch, a ceremony and reception. Tickets cost \$3.00 and can be purchased through Avis. Deadline for ticket purchase is May 2.

MARTEN NAMED ASSOC. DIRECTOR

Dr. Gordon Marten has been permanently assigned to the position of Associate Director for the Beltsville Area for USDA-ARS effective April 22. Congratulations to Dr. Marten. Also, he will be in town during the week of May 21 if anyone wishes to meet with him.

GAMMA SIGMA DELTA AWARDS

Dr. Donald Rasmusson was recognized with a merit award at the recent Gamma Sigma Delta banquet. Also, David Legare, an undergraduate in our department, was initiated into GSD. Congratulations to both.

CONGRATULATIONS TO AL GREEN

Al Green successfully completed his M.S. final exam on Wednesday. He has accepted a position with American Cyanamid in Little Rock, Arkansas starting on Monday next week. Congratulations, Al.

DEAN'S LIST

Several undergraduate students from our department made the Dean's list for winter quarter. These students earned a GPA of 3.70 or higher while completing 12 or more credits:

Geoff Graham	Gary Suess
Lori Kelter	Todd Vagts
Scott Reiland	Chris Wethern
David Reuter	Jane Grimsbo
David Legare	Richard Swanson

Congratulations and keep up the good work.

TURN KEYS IN EARLY

If you are finishing up your work in our department and are planning to leave please remember to return your U of M keys to Lynne. Bring them in early so you will have time to go to the bursar in Coffey Hall to get your key deposit back. The bursar closes at 3:30 p.m. each day.

SUSTAINABLE AG. SYMPOSIUM

A symposium on ecology and sustainable agriculture: Current research, achievements and priorities will be held on Saturday, April 28, 1990, starting at 9:00 a.m. in Borlaug Hall. Special guest: Chuck Davis, Chairman, Minnesota Senate Agriculture Committee.

MOHAMMED OUSSIBLE VISITING

Mohammed Oussible is visiting our department and also having check-ups on his eyes at the U of M clinics. He is currently officed in 308 Agronomy, phone number 5-9763.

LCMR PROPOSALS

Over 700 proposals were submitted to LCMR this year for funding. The commission will meet May 8 to reduce the number to 200. Proposal hearing sessions are scheduled for May 15-16, and June 5-6, and June 12-13. If your proposal survives the May 8 cut be prepared to be called to one of the hearing sessions.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Asst./Assoc. Prof. in turf improvement in the Dept. of Plant Science at the Univ. of Rhode Island, Kingston, RI
- Asst./Assoc. Prof. for Environmental Extension Specialist, Dept. of Agronomy, at Purdue Univ., West Lafayette, IN.
- Ext. Agrichemical Specialist, Dept. of Entomology, Washington State Univ., Pullman, WA.
- Ext. Rice Specialist/Res. Asst. Prof., Southeast Res. and Ext. Center, Monticello, AR.
- Professor (non-tenured) for an Extension Water Quality Specialist, Purdue Univ., West Lafayette, IN.
- National Program Leader for IPM, USDA Ext. Service, Washington, DC.
- Postdoc Res. Assoc. in Soil Microbiology Res., Dept. of Soil Science at Oregon State Univ., Corvallis, OR.
- Res. Specialist, Alfalfa Variety Testing, Univ. of Kentucky, Dept. of Agronomy, Lexington, KY.
- County Director/Advisor, Monterey County, Univ. of Calif., Oakland, CA.
- Seedstock Technician with a Corn Research Company in Nebraska. Requires B.S. in Agriculture or 2-4 years experience in seed production. Contact Dunhill (prof. search consultants) in Ft. Collins, CO.

SEMINARS THIS WEEK

MONDAY, APRIL 30

Forest Resources Seminar

Rapid stand based "Growth" projection methodology. Stephen Lime, in 100 Nat. Res. Admin. Bldg. at 3 p.m.

TUESDAY, MAY 1

Plant Biology Seminar

Somoclonal variation and disease resistance in *Populus*. Michael Ostry, USDA Forest Service in Room 70 BioScience at 4 p.m.

Entomology Seminar

Tertiary insects of the western United States. Dr. Stan Lewis in 490 Hodson Hall at 3 p.m.

Insights

Native American reverence for earth and universe. W. Roger Buffalohead, Director of the Am. Indian Learning and Resources Center, noon in Room 207 Student Center.

Workshop on College Teaching & Learning

Teaching critical thinking in the disciplines and professions. Joanne Kurfiss, Director, Teaching and Learning Center, Santa Clara Univ., 9-12 in the East Wing, Campus Club, Coffman Union.

WEDNESDAY, MAY 2

Insights

Agricultural Management Practices and their impact on ground water. Dr. James Anderson, Soil Science, noon, in 110 Student Center.

Dean's Seminar

Enzymatic cleavage of RNA by RNA. Dr. Signey Altman, Prof. of Biology, Yale University, 1989 Nobel Laureate in Chemistry, in 2-470 Phillips-Wangensteen Bldg. at 4:00 p.m.

Forest Resources Seminar

Oak wilt in Minnesota: A review of the 1988 DNR survey. Douglas McVey in 100 Nat. Resources Bldg. at 3:00 p.m.

THURSDAY, MAY 3

Genetics and Cell Biology

Molecular biology of the plasma membrane H⁺-ATPase in *Arabidopsis*. Dr. Michael Sussman, Dept. of Horticulture, U of Wisconsin, in 335 Borlaug Hall at 3:30 p.m.

North Central Forest Exp. Station

A view of biodiversity from outside the resource management community. Sharon Clark Gaskill, Wisconsin Audubon Council, Inc. in 2nd floor conf. room of the NCFES at 10 a.m.

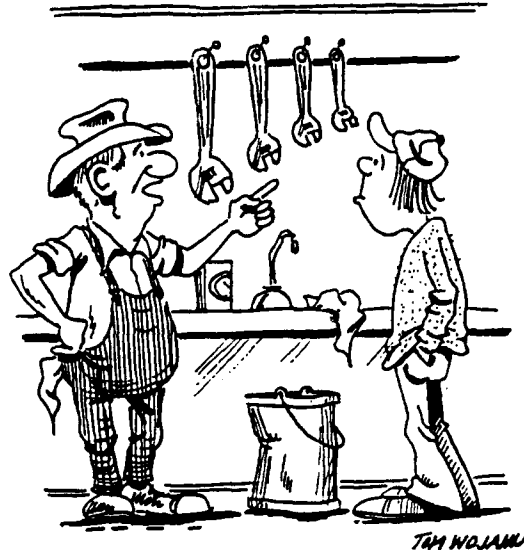
Plant Biology Seminar

Lichenology in China. Jiang-Chun Wei in Rm 70 BioScience at 4 p.m.

FRIDAY, MAY 4

Plant Biology and Hort. Seminar

Organization of cortical microtubules in stomatal guard cells. Dr. Jan Marc, Dept. of Botany, Univ of Georgia, in Rm 70 BioScience at noon.



"Use tools right.

Don't pound with a big wrench when a small one will do."

Opportunity

• Meg: "Funny thing—my husband and I were standing by the wishing well in the park and all of a sudden he fell in!"

Peg: "Gosh, I never knew those things worked."

After the kids leave home, some parents suffer from the empty-nest syndrome; others change the locks.

• A used-car salesman was waxing eloquent about the super buy he was showing a customer. "You can't go wrong with this gem," he proclaimed as he started the engine. "It's the opportunity of a lifetime!"

"It must be," agreed the customer, "I can hear it knocking."

Ultimate

• Myrt: "So your new neighbor is a magician. What's his best trick?"

Gert: "Sawing a woman in half."

M: "Does he have any family?"

G: "Just three half-sisters."

Cathy / By Cathy Guisewite



Agronomy Gleanings

May 4, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

RETIREMENT LUNCHEON

Don't forget the St. Paul Campus Retirement Recognition Luncheon on Tuesday, May 8, in the Earle Brown Continuing Education Center. The luncheon honors retirees from all St. Paul Campus units. The program consists of a buffet lunch, a ceremony and reception. Tickets cost \$3.00 and can be purchased through Avis.

THANK YOU NOTE

Thank you very much for the beautiful arrangement of flowers which was sent for Jean's memorial service on Saturday, April 21 and also a thank you to those of you who sent cards and came to see Jean during his illness. You have no idea how much he treasured the friendship of all of you in the department. I too feel very close to you. Mary Lambert

SUMMER JOBS FOR UNDERGRADS

The Rosemount Experiment Station will employ 10 students this summer to supplement the full time work force. The work period runs from the end of spring quarter to the beginning of fall quarter. The pay rate is \$6.59, \$6.84, and \$7.11 per hour. Work experience and background will determine the rate for each student. Interested students should apply at the Student Employment Center under job posting C5-061071.

FISHING TRIP

The Agronomy Department Annual Fishing Trip is scheduled for June 15-17 up at Leech Lake at Cedar Springs Lodge. Get your reservations in to Mark Matteson soon. There are still some cabins available, or you can camp.

RAPTOR CENTER TOUR

Agronomy Department Graduate students, Faculty, Post docs, Staff, Visitors, are all invited to tour the Raptor Research Center on Friday, May 11 at 3:00 p.m. Meet at the east entrance of the Agronomy building at 2:50 p.m. The tour will take about 1 hour. Call Paul Viger or Brent Delzer if you have questions.

THANK YOU TO GRAD CLUB

Thank you to the Graduate Club for purchasing the world map which is now hanging in the Departmental Library. This is an excellent addition.

NEW OFFICERS IN GRAD CLUB

The Graduate Club held their elections for new officers and committee members on April 6. Congratulations to: President - Shawn Kaeppler; Vice President - Perry Miller; Secretary - Steve Plehn; Treasurer - Bill Rooney. New departmental committee members: Agronomy seminar - Brent Sorenson Plant Breeding seminar - Rick Jellen Liaison committee - Pete Dotray, Leon Van Beuningen, Shawn Kaeppler Grievance committee - Rick Jellen Social committee - Frantz Clotaire and Doug Davis Flower and Gift committee - Brent Delzer Library committee - Aziz ElBehri Undergrad representative - Tom Fry New Grad Club committee members: Student photographer - Jesus Marquez COGS representative - Martin Fabrizius and Doug Davis Housing committee - Dave Dekoeyer and Mike Davis Computer room committee - Brent Delzer, Frantz Clotaire, Bob Murzyn, Doug Davis, Leon Van Beuningen, Abdul Kamanzi, and Steve Plehn Photography and video equipment - Paul Viger, Rick Jellen and Pete Dotray International committee - Hakima Bahri, Jesus Marquez, Abdul Kamanzi, and Victor Nunez Sports committee - Paul Peterson, Dave Dekoeyer, and Martin Fabrizius Unique Educational Grant - Brent Sorenson, Abdul Kamanzi, Rob DeHaan, and Greg Holland

MINNESOTA ROYAL

The 74th Minnesota Royal is scheduled for May 7-10 on the St. Paul Campus. Minn Royal began in 1916 as a series of events designed to acquaint students with the many problems involved in conducting a livestock exhibition. Today the celebration draws together over 300 students and faculty and 11 clubs in festivities and friendly competitions.

TRUCK FOR SALE

1985 Dodge D-50, Automatic, Air, 46,000 Actual Miles, Topper, New Fr. Disk Brakes, Clean for \$3450 or best offer. See Holly in 217 Agronomy for more information.

STELLA MELBASTAD

Stella Melbastad, who was a secretary in the department from 1941-1972, suffered a stroke last November and is now in the Edina Care Center. Many of you may remember Stella.

NEW PRESIDENT OF MSGA

Bob Kruger, of Hayfield, Minnesota, has been elected as the new president of the Minnesota Soybean Grower's Association.

VISITORS COMING TO DEPARTMENT

Michael J. Kirby, plant developmental physiologist from the University of Western Australia will be visiting our department on May 9. He will give a seminar at 4:00 p.m. in 306 Borlaug Hall entitled, "Wheat development: An integrated approach." If you would like to meet with Dr. Kirby please check with Steve Simmons.

Major M. Goodman, from North Carolina State University, will visit our department on Thursday, May 10. He will give a seminar at 1:00 p.m. in 306 Borlaug Hall entitled, "Use of tropical germplasm in a temperate environment." **Walton C. Galinat**, from the University of Massachusetts, will visit our department on Monday, May 14. He will give a seminar at 4:00 p.m. in 306 Borlaug Hall entitled, "Origin and evolution of corn." If you would like to meet with either Dr. Goodman or Dr. Galinate please see Steve Openshaw.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Asst. Prof. of Food Science, Univ. of Minnesota, St. Paul.
- Experienced Rural Organizer, Land Stewardship Project, Lewiston, MN.
- On-farm practices coordinator: Applied on-farm research, Land Stewardship Project, Lewiston, MN.
- Managing Director, Land Stewardship Project, Lewiston, MN.
- Visiting Assistant Professor, Soil Science Dept., North Carolina State Univ., Raleigh, NC.
- Manager, Water Quality Management Systems Project, Dept. of Ag. Economics, U of Missouri-Columbia, Columbia, MO.
- Forage Scientist (Asst./Assoc. Prof.) Dept. of Plants, Soils, and Biometeorology, Utah State Univ., Logan, UT.
- Plant Breeder/Geneticist - Small Grains (Asst./Assoc. Prof.) Dept. of Plants, Soils, and Biometeorology, Utah State Univ., Logan, UT.

SEMINARS THIS WEEK

MONDAY, MAY 7

Forest Resources Seminar
Hydrophobicity of mined peat surfaces: Its effect on infiltration, James Schroeder in 100 Nat. Res. Admin. Bldg. at 3 p.m.

Soil Science Seminar
Inoculation and nitrogen response by tropical and temperate legumes in Ecuador, Consuelo Estevez in 375 Borlaug Hall at 3 p.m.

TUESDAY, MAY 8

Plant Biology Seminar
Bidirectional selection for phosphorus efficiency in alfalfa using whole plant vs. tissue culture techniques, Steve Sain in 70 BioScience at 4 p.m.

Plant Pathology Seminar
The impact of plant pathology upon sustainable agriculture, Flavio Lazzari in 365 Borlaug Hall at 4 p.m.

WEDNESDAY, MAY 9

Agronomy Seminar
Wheat development: An integrated approach, Dr. E.J. Kirby, Univ. of Western Australia, in 306 Borlaug Hall at 4 p.m.

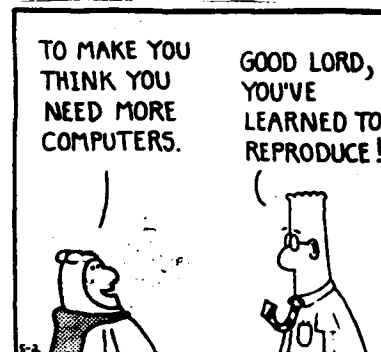
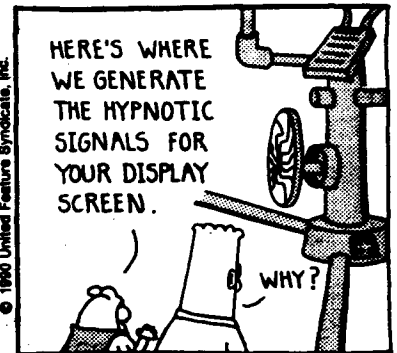
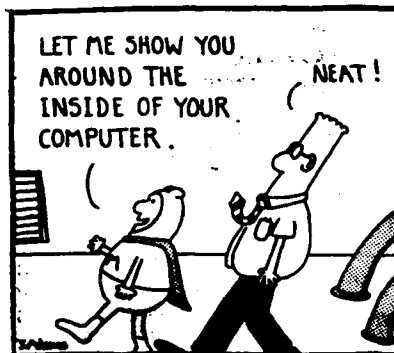
THURSDAY, MAY 10

Special Plant Breeding Seminar
Use of tropical germplasm in a temperate environment. Major M. Goodman, North Carolina State University, in 306 Borlaug Hall at 1 p.m.

Genetics and Cell Biology
Molecular aspects of pollen development, Dr. Marti Crouch in 335 Borlaug Hall at 3:30 p.m.

MONDAY, MAY 14

Special Plant Breeding Seminar
Origin and evolution of corn. Walton C. Galinat, Univ. of Massachusetts, in 306 Borlaug Hall at 4 p.m.



Agronomy Gleanings

May 11, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

FISHING TRIP

The Agronomy Department Annual Fishing Trip is scheduled for June 15-17 up at Leech Lake at Cedar Springs Lodge. Cabin 6 is still available. Get your reservations in to Mark Matteson by Monday if you want this cabin. There are still camp sites available also. Mark Matteson's phone number is 625-5277.

NEW BABY

Congratulations to Tae San and Kaeok Kim. They had a baby boy on May 7, weight 8 lbs. Their new son's name is David. A U of M sweatshirt was provided by the Flower and Gift Committee.

Thank you so much for the wonderful gift for David. We are doing well and hope to visit soon.

Kaeok and Tae San Kim

SURGERY

Rick Jellen is in Fairview Southdale Hospital for a week. He had surgery earlier this week. Flowers were sent by the Flower and Gift Committee.

NEW POST DOCS

We have two new post docs in the department. Neil Palosaari has recently started working in the department as a Postdoctoral Research Associate. He will be working with John Gronwald on a project to characterize acetyl-CoA carboxylase in herbicide susceptible and tolerant species. Neil recently obtained his Ph.D. in Biochemistry at the University of Minnesota. His office number is 596 Borlaug.

Patrick Howle has joined the department as a post doc working with Carroll Vance and Donald Barnes. His research will involve looking for differences associated with nitrogenase activity in elite alfalfa populations. He completed his Ph.D. in Botany at North Carolina State University; his M.S. in Agronomy at Clemson University; and his B.S. in Chemistry at the University of South Carolina. His office is 546 Borlaug Hall. Please welcome Neil and Patrick to the department.

NEW TWINS

JoAnne Barbour and Karl Rosen had twin boys on May 8. They have named them Maxwell and Luke. JoAnne worked with Bob Busch on the wheat project.

SEARCH COMMITTEE FOR COA DEAN

A search committee has been named for Dean of the COA and Associate Director of MAES. Craig Sheaffer from our department will serve on this committee. The interviews will probably take place in September or early October. Give thought to the names of people you would like to nominate for this position. Keith Wharton will continue to serve as Acting Dean of the COA in the meantime.

INTERRUPTION OF BUILDING STEAM

The steam service to all buildings on the St. Paul Campus will be shut down from 12:00 midnight on Friday, June 8 until 12:00 midnight on Sunday, June 10. This interruption will affect central air conditioning systems, domestic hot water, autoclaves, distilled water and heating systems. Call Juan Bartolomei at 625-4372 if there will be any problems caused by this interruption.

1990 MPBC SYMPOSIUM

The 1990 Midwest Plant Biotechnology Consortium's Fall Symposium will be held November 7-8, 1990. It is important to note that this year the 1990 MPBC Symposium is the only forum in which researchers will have the opportunity to compete for funding from MPBC. Only proposals presented at the November symposium will be considered for 1991 MPBC funds. Information about this is posted on the bulletin board outside 411 Borlaug Hall.

SOUL OF THE SIXTIES

Robert Jones will perform with the Sounds of Blackness at the Riverview Supper Club on Sunday, May 13th at 7:00 and 9:00 p.m. Tickets are \$10 in advance or \$12 at the door.

1991-92 FULBRIGHT GRANTS

The Graduate School has announced the opening of the 1991-92 competition for Fulbright grants and other grants for graduate study abroad, administered by the Institute of Intl. Education. Approximately 700 awards are available to more than 70 countries. These grants are mainly for graduate students but some are open to undergraduates. Check the bulletin board for details.

RETIREMENT RECEPTION

Plant Pathology will host a reception in honor of the retirement of Dr. Thor Kommedahl on June 8, 1990 from 4-5 p.m. in 491 Borlaug Hall.

STAFF DIRECTORY UPDATE

Within the next two weeks, all faculty and staff will receive a staff demographic information update form. These forms are used to update the database of the Student/Staff Directory. Please check the form for accuracy and return them to Avis in 411 Borlaug Hall. If you don't receive one check with Avis. Thanks.

PUNCHINELLO PLAYERS

The Punchinello Players will perform "Dark of the Moon" on May 11 and 12 and May 17, 18, and 19 at the theatre in North Hall on the St. Paul Campus. The play is a musical/drama based on the folk song by Barbara Allen. Curtain time is 8:00 p.m. Tickets may be purchased at the door for \$4.

DEATH

Roy R. Anderson, the mechanical inspector who supervised the inspection of all mechanical items in Borlaug Hall, died of a massive heart attack on Sunday, April 29. Roy was a graduate in Mechanical Engineering from the U of M and had been a construction inspector for Physical Plant for about 30 years. He was dedicated and sincere in his work. Those working with the construction of Borlaug Hall will probably remember Roy.

ELLING GUEST COACH

Laddie Elling was invited to be, and served as, a Guest Coach for the U of M Women's Golf Team during their play on Saturday, May 5th during the Big Ten Golf Tournament. Primarily he learned two major facts: 1) During golf play the coach can do no more than say "Good shot!", or applaud; and 2) "Those young ladies can really hit the golf ball a long, long way." It was fun, and he found that we have a very energetic and educationally oriented Director of Women's Athletics in Chris Voelz.

ANNUAL STEAK AND CHICKEN FRY

The Gopher Crops and Soils Club will hold their Annual Steak/Chicken Fry on Tuesday, May 22 at Roseville Central Park, 4 to 6 p.m. social hours, 6 p.m. meal. Make reservations with Pat Kessler in 302 Agronomy. The picnic is free for members, \$3.00 for non-member students and guests, and \$5.00 for faculty, staff and guests.

CONGRATULATIONS

Undergraduate students, Pete Rubert, Jane Grimsbo, and Todd Vagts participated in the NACTA crops contest on April 28 at Waseca. Todd tied for first in the math practical, Jane was 3rd in the Agronomic Quiz and Pete was 4th in grain grading. Good job!!

RAPTOR CENTER TOUR

Graduate students, Faculty, Post docs, Staff, Visitors, are all invited to tour the Raptor Research Center on Friday, May 11 at 3:00 p.m. Meet at the east entrance of the Agronomy building at 2:50 p.m. The tour will take about 1 hour.

NEW COURSE IN PLANT BIOLOGY

Plant Biology will offer a new course starting this fall, PBIO 3960 - Research Topics. It will meet on Monday afternoons and will be taught by Irwin Rubenstein. The course is 1 credit and will be offered S-N, only.

CONGRATULATIONS TO RALSTON

Donald Ralston was selected as a 1990 Civil Servant of the Year for the St. Paul USDA-ARS location. Don was among 94 awardees from the 22,000 federal employees in the Twin Cities area. Don was recognized for his "extremely professional attitude" through the transition of a new supervisor and new objectives for their research program. It was also noted that "Don's knowledge of the system, positive attitude, and technical skills quickly made him indispensable to his new supervisor who was new to the agency." Congratulations Don.

SEMINARS THIS WEEK

MONDAY, MAY 14

Special Plant Breeding Seminar

Origin and evolution of corn. Dr. Walton C. Galinate, Univ. of Massachusetts, in 306 Borlaug Hall at 4 p.m.

Forest Resources Seminar

Quantifying the effects of erosion on site productivity. Kim Pengelly in 100 Nat. Res. Admin. Bldg. at 3 p.m.

Soil Science Seminar

Soil nitrate and pesticide leaching potentials and aquifer vulnerability to contamination. Bhairav R. Khakural in 375 Borlaug Hall at 3 p.m.

TUESDAY, MAY 15

Plant Biology Seminar

Gene flow in lichens. William and Chicita Culberson in 70 BioScience at 4 p.m.

Entomology Seminar

Grasshoppers 1990. Dr. David Noetzel in 490 Hodson Hall at 3 p.m.

WEDNESDAY, MAY 16

Forest Resources Seminar

Geographic information systems - identifying user data requirements. Gary Fisher in 100 Nat. Resources Admin. Bldg. at 3 p.m.

Soil Science Seminar

Developing forest productivity interpretations by combining soil and timber inventories in Beltrama County, Minnesota. Peter Bates in 415 Soil Science at 3 p.m.

THURSDAY, MAY 17

Special Soil Science Seminar

Spectroscopic analyses of organic matter transformations during composting in relation to compost maturity. Yossi Inbar in 375 Borlaug Hall at 10:30 a.m.

Genetics and Cell Biology

Protein phosphorylation and microtubule stability in the mitotic apparatus. Dr. Roger Sloboda, Dept. of Biol., Dartmouth College, in 335 Borlaug Hall at 3:30 p.m.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Cereal Pathologist with Busch Agri. Resources, Inc., Fort Collins, CO.
- Soil Science Extension Specialist, North Carolina State Univ., Raleigh, NC.

Agronomy Gleanings

May 18, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

ANNUAL STEAK AND CHICKEN FRY

The Gopher Crops and Soils Club will hold their Annual Steak/Chicken Fry on Tuesday, May 22 at Roseville Central Park, 4 to 6 p.m. social hours, 6 p.m. meal. Get your tickets from Pat Kessler in 302 Agronomy or from Sheila in 411 Borlaug. The picnic is free for members, \$3.00 for non-member students and guests, and \$5.00 for faculty, staff and guests.

NEW BABY

Brian and Valerie Johnson had a baby girl on Monday, May 14. She weighed 6 lbs. 9 oz. and they have named her Briitta Marie. A U of M sweatshirt was provided by the Flower and Gift Committee. Congratulations.

HILL VISITING PROFESSORSHIPS

The Graduate School is now inviting applications for visiting professor support for the academic year 1991-92 and preliminary applications for 1992-92 and 1993-94. Applications should be submitted on or before October 22, 1990. Check with Lynne in 411 Borlaug Hall for further details.

EMPLOYEE BENEFITS SURVEY

By June 1 each employee who participates in the University's health insurance plan will receive an employee benefits survey. This survey has been prepared by the University Health Plan Task Force. It is a very important review process and I encourage all employees to take the time to complete this survey. With the survey the Task Force will be able to determine the best options for the University's benefit program. Orvin Burnside

NORTH CENTRAL ASA MEETING

I have posted a preliminary copy of the information regarding the ASA North Central Branch Annual Meeting (July 30-31, 1990) in St. Paul, on the bulletin board outside 411 Borlaug Hall. The meetings will be held on the St. Paul Campus.

VISITING STUDENT

Frank Van Der Werff will be visiting in our department for five months. Frank is a graduate student at the Agricultural University Wageningen, Netherlands. He will be officed in 306 Agronomy. Please welcome him to the department.

OUSSIBLE VISITING FOR ONE YEAR

Mohammed Oussible will be spending the next year in the department working on cooperative research and educational endeavors with several of our faculty. He will also be receiving medical attention at the U of M clinic following his corneal transplant. Please welcome our most recent visiting scientist to the department. He will be officed in 402 Borlaug Hall (telephone 625-8132).

M.S. SEMINAR

Mamadou Ndiaye will present his final M.S. Thesis, "Net returns of variable corn and soybean cropping systems," on Tuesday, May 29 at 2:00 p.m. in 306 Borlaug Hall.

WHERE DO YOU LIVE NOW?

Everyone in the department: Please make sure that Avis (411 Borlaug Hall) has your most up-to-date address. Thanks.

ALUMNI SOCIETY PICNIC

Don't forget, the COA Alumni Society is sponsoring its second annual spring picnic on Sunday, May 20 at the Minnesota Landscape Arboretum in Chanhassen from 1 to 7 p.m. The Alumni Society would appreciate a strong faculty participation in the picnic to show support for the U to the alumni. Cost of tickets is \$15 for adults and \$8.50 for children under 12.

MEMORIAL DAY

The University will be closed in observance of Memorial Day on Monday, May 28, 1990.

SEMINARS THIS WEEK

MONDAY, MAY 21

Forest Resources Seminar

Timber market development for private forests. Timothy O'Hara in 100 Nat. Res. Admin. Bldg. at 3 p.m.

Soil Science Seminar

Developing site specific pesticide recommendations: An interdisciplinary challenge in 375 Borlaug Hall at 3 p.m.

TUESDAY, MAY 22

Plant Biology Seminar

The lichens of Acadia National Park, Maine. Thomas Sullivan in 70 BioScience at 4 p.m.

Electron Microscopy Symposium

1990 Spring Symposium of the Minn. Electron Microscopy Society. from 8:30 to 5:30 in Science Museum of Minnesota. Cost \$30 members and \$40 nonmembers.

THURSDAY, MAY 23

Genetics and Cell Biology

Behavior of the maize transposon Ac in heterologous systems. Dr. Steve Scofield, John Innes Institute, Norwich, UK in 335 Borlaug Hall at 3:30 p.m.

TUESDAY, MAY 29

Soil Science Seminar

Potential mechanisms of tolerance in forage legumes to low soil phosphorus. Cameron J.P. Gourley in 375 Borlaug Hall at 3 p.m.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Head, Dept. of Agronomy, Purdue University, West Lafayette, IN.
- Junior Scientist, Univ. of Minnesota, Southwest Exp. Station, Lamberton, MN.
- Dairy and Livestock Agent, U of Wisconsin-Extension, Madison, WI.

If you can keep you head in the midst of all this confusion... you just don't understand the situation.

Dog tired at night? Maybe you've been growling too much during the day.

It is real nice ot be important but it's real important to be nice.

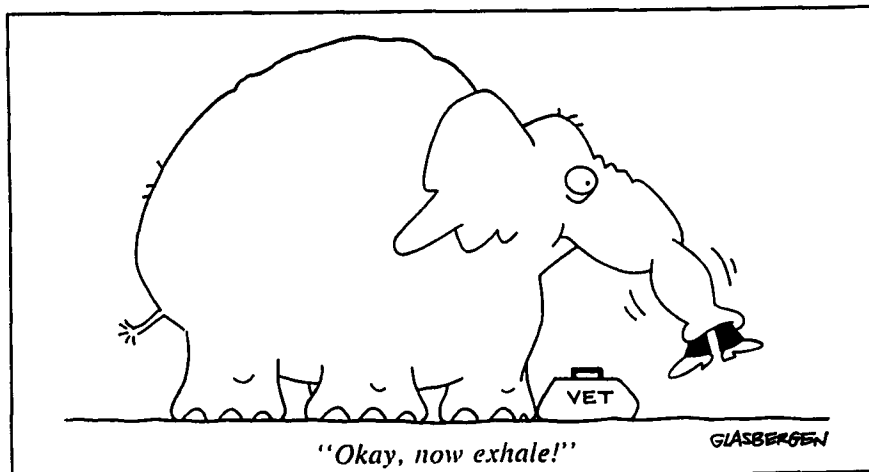
I may look busy, but I'm only confused.

I'd like to help you out. Which way did you come in?

Anything worthwhile is worth doing for money.

Work fascinate me - I can sit and look at it for hours.

Do it tomorro, you've made enough mistakes today.



Agronomy Gleanings

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

EMPLOYEE BENEFITS SURVEY

By June 1 each employee who participates in the University's health insurance plan will receive an employee benefits survey. This survey has been prepared by the University Health Plan Task Force. It is a very important review process and I encourage all employees to take the time to complete this survey. With the survey the Task Force will be able to determine the best options for the University's benefit program.

Orvin Burnside

SALARY INCREASES

Academic and P&A salary increases for 1990-91 are being assigned on merit using a 6% average increase. The total compensation increase for academic faculty for 1990-91 is 7% which includes equity adjustments of 0.5%, merit/market adjustments of 6%, and fringe benefit increases of 0.5%. We are to wait until June 15 to share the salary figures with academic personnel, noting that all salary figures are pending Central's final approval of the budget.

The Pay Plan proposes an across-the-board increase of 4% for Civil Service personnel who are on payroll effective July 1, 1990. Final pay equity adjustments also will be implemented effective July 1, 1990. The total compensation increase for Civil Service for 1990-91 is 6.7% which includes comparable worth of 1.7%, across-the-board increase of 4%, and fringe benefits increases of 1%.

Graduate Assistants pay increases have not been finalized, but 6.5% is their best estimate at this time.

Orvin C. Burnside

THANK YOU NOTE

Thank you all so much for the nice gift for our new bundle of joy. We certainly appreciate it very much. We are all doing just fine.

Brian & Valerie Johnson and family

THANK YOU NOTE

Thank you so much for the flowers. They are beautiful and helped make my hospital stay a bit enjoyable. Rick Jellen

GROWTH CHAMBERS-BORLAUG HALL

Sue Nielsen has replaced Kevin Betts on the Growth Chamber Committee. She is the person to contact now if you want to reserve a growth chamber in Borlaug Hall or if there are problems that need to be addressed regarding growth chamber maintenance.

CONGRATULATIONS TO DURGAN

Beverly Durgan was selected to receive the College of Agriculture Nontenured Faculty Distinguished Teaching Award for 1990. Larry Smith nominated Bev.

Also, the Board of Regents approved her promotion to Associate Professor effective July 1. Congratulations.

USE THE PHONE BOOK

The ability to make operator assisted calls (those calls that are placed by an AT&T operator rather than direct dialed, charged to a credit card, charged to an outside third party or placed as a collect call) will be restricted on all University telephones as of June 1, 1990. In addition to being a very expensive service (surcharges are from \$1.30 to \$3.00 per call), this calling method has enabled some individuals to make fraudulent calls which we are unable to collect for. We realize that there are some users on campus who feel that they absolutely need this service. The option that we are providing these users is the ability to dial "0" (without dialing '8' first) to reach a University operator who will assist them with dialing the call.

CHECK VACCINATION RECORDS

A newsletter from Boynton Health Service states, "Public health officials now recommend that adults born in 1957 or later who are likely to be exposed to measles should have a second dose of vaccine. Included in their recommendations are college students, teachers, international travelers, and new health workers, the groups with highest risk of exposure." Check your immunization history and get immunized if necessary.

BAILEY RECEIVES AWARD

Suzanne Bailey received the Outstanding Civil Service award on May 22 from her old department (Biochemistry in the Medical School). Congratulations, Suzanne.

COOPER RECEIVES TATE AWARD

Terry Cooper, undergraduate instructor from Soils and co-advisor to the Gopher Crops and Soils Club, was awarded the Gordon L. Starr Award. This award is given to individuals for outstanding service in working with student groups in planning activities and promoting leadership. Congratulations

PH.D. SEMINAR

Selection for traits associated with dinitrogen fixation and nitrogen assimilation in alfalfa. Nick R. Degenhart in 306 Borlaug Hall at 9:30 a.m. on Wednesday, May 30.

M.S. SEMINAR

Mamadou Ndiaye will present his final M.S. Thesis, "Net returns of variable corn and soybean cropping systems," on Tuesday, May 29 at 2:00 p.m. in 306 Borlaug Hall.

MEMORIAL DAY

The University will be closed in observance of Memorial Day on Monday, May 28, 1990.

DIRECTORY UPDATE

Everyone: Remember to return your Staff Demographic Information Update Forms from AIS to Avis in 411 Borlaug Hall. Do not put them in campus mail.

RICHARD JONES INTERIM IN MAES

Effective June 1, 1990, Dr. Richard Jones, Head of Entomology, will be Interim Associate Director of the MAES for the COA. He will serve in this position on a 60% basis, continuing as Head of Entomology on a part-time basis.

RECYCLERS, RECYCLERS

Congratulations Recyclers for helping to set a St. Paul Campus record in recycled materials collection for March. Borlaug Hall residents recycled about one ton of office paper and about one ton of newspaper. Recycling one ton of paper saves 17 trees and uses half the energy of paper production using wood pulp. We've also started using recycled paper in the xerox machine. The goal for the recycling program is to recycle 21% of the U of M's waste stream in 1990. Currently, they recycle 17% of the waste stream. University recyclers recycled 342 tons of material last quarter. Of this amount office paper and cardboard account for 60%. If you are planning to clean out old files or storage areas this spring you should call University Archives first at 624-0562 (they may want to save things of historical value) and then call the Recycling Program at 625-8084.

SEMINARS THIS WEEK

TUESDAY, MAY 29

M.S. Thesis defense

Mamadou Ndiaye will present his final M.S. Thesis, "Net returns of variable corn and soybean cropping systems," at 2:00 p.m. in 306 Borlaug Hall.

Plant Biology Seminar

Molecular perspectives on evolution and ecology of mycorrhizal fungi. Thomas Bruns, Dept. of Plant Path., Univ. of California, in 70 BioScience at 4 p.m.

WEDNESDAY, MAY 30

Ph.D. Thesis Defense

Selection for traits associated with dinitrogen fixation and nitrogen assimilation in alfalfa. Nick R. Degenhart in 306 Borlaug Hall at 9:30 a.m.

Forest Resources Seminar

Structural and functional patterns of benthic stream communities in a heterogeneous ecoregion: the driftless area. Nels Troelstrup in 100 Nat. Res. at 3 p.m.

THURSDAY, MAY 31

Genetics and Cell Biology

Topic area: Drosophila developmental genetics. Michael O'Connor, Univ. of California in 335 Borlaug Hall at 3:30 p.m.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Asst. Prof., Soil Physics and Soil/Atmosphere Interactions, Univ. of Minnesota, St. Paul.
- Plant breeding and genetics position with FAO in Rome, Italy.
- Junior Scientist at the Southwest Experiment Station in Lamberton, MN.
- Research program manager, corn breeding/genetics project, Dept. of Agron., Univ. of Wisconsin, Madison, WI.
- Research Associate, Dept. of Forestry, Iowa State Univ., Ames, IA.
- Nursery Specialist, Ag. Ext. Service, Dept. of Ornamental Hort. and Landscape Design, Univ. of Tennessee, Knoxville, TN.
- Asst./Assoc. Prof., Research Scientist (New Crops), Virginia State Univ., Petersburg, VA.
- Asst. Prof./Viticulturist, Texas Tech Univ., Dept. of Agron., Hort. and Ento., Lubbock, TX.
- Extension Agronomist - Weed Science, Dept. of Plant Sciences, Univ. of Arizona, Tucson, AZ.
- Asst./Assoc. Prof., Teaching and Advising undergraduates and graduates in plant science, Arkansas State Univ. in Jonesboro, State Univ., AR.
- Asst. Prof. of Weed Science, Texas Tech Univ., Dept. of Agron., Hort., and Ento., Lubbock, TX.

M.W.
9Ag862

June 1, 1990

Agronomy Gleanings

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

FISHING TRIP

Everyone who has signed up for the Agronomy Fishing Trip, June 15-17, should get their deposit money in to Mark Matteson immediately. He needs to start purchasing prizes for the fishing contest. Dave Somers' daughter caught an 8-pound northern from Leech Lake last Sunday.

NEW BABIES

Lai Nguyen and his wife had a baby girl on Wednesday, May 30. They have named her Brenda and she weighed 7 lbs. 10 oz. A U of M sweatsuit was provided by the Flower and Gift Committee. Congratulations.

Dave Stoltenberg, a former graduate student with Don Wyse, and his wife, Allison, had a baby girl on May 13. They have named her Brenna Signe and she weighed 7 lbs. 11 oz.

RECYCLE ALUMINUM

Save those aluminum pop cans for recycling. They are highly recyclable. Evidently, someone has noticed a large number of aluminum cans being discarded in the garbage from the Agronomy Department and has written us a letter to complain. There is an aluminum recycling barrel inside the main entrance to Borlaug Hall or you could give them to Teresa in 209 Borlaug Hall (she cashes them in to buy popcorn for the undergrads) or you can give them to me (Lynne) and I will put them into the recycling barrel. Do not throw them away in the garbage. If you happen to notice aluminum cans in the garbage take them out for recycling. Make an effort to save the environment in this small way!

MRS. BURNSIDE IN HOSPITAL

Delores Burnside is in the hospital fighting an infection. She has finished radiation treatment and will soon begin chemotherapy again using several new drugs. Orvin Burnside

BURNHAM'S 70th CLASS REUNION

Dr. Charles Burnham's high school class from Ford Atkinson, Wisconsin, will celebrate their 70th reunion this weekend. Congratulations.

CONGRATULATIONS LORI AND MARK

Lori Kelter and Mark Grundmayer, undergraduate students in Agronomy, received the President's Undergrad Leadership Award at a University-wide reception and dinner on May 22. Congratulations to both.

OFF-CAMPUS HOUSING OFFICE

The St. Paul Off-Campus Housing Office will be open from June 13 through September 21 from 8:00 a.m. to 4:15 p.m. Monday through Friday in 190 Coffey Hall. This office will provide listings of rooms, apartments, and houses; maps of Minneapolis and St. Paul Campus vicinity; bus schedules and other housing questions.

SDE NATIONAL CONFERENCE

Sigma Delta Epsilon, Graduate Women in Science, will hold their National Conference, June 28-July 1, 1990, at the College of St. Catherine in St. Paul, Minnesota. The theme for the conference is "Winning the Race in Science, Math, and Technology: Passing the Torch to Women and Minorities." Faculty, professional staff, and graduate students are invited to attend this conference. Information is posted on the bulletin board outside 411 Borlaug Hall.

FREE BOOKS

Four genetics books are available to anyone who would like to have one:
Herskowitz, Irwin H. 1962. Genetics.
Sinnott, Edmund W. and L.C. Dunn. 1939. Principles of Genetics. McGraw-Hill Book Company, Inc.
Srb, Adrian M., and R.D. Owen. 1952. General Genetics. W.H. Freeman & Co.
Srb, Adrian M., R.D. Owen, and R.S. Edgar. 1965. General Genetics. W.H. Freeman & Co.
See Pat Kessler in 302 Agronomy if you would like to have one of these books.

NEW HORTICULTURE HEAD

Gary Gardner has accepted the position as Head of the Department of Horticultural Science effective July 1, 1990.

BOEHLJE TO STEP DOWN AS HEAD

Mike Boehlje will not request reappointment as Head of the Department of Agricultural and Applied Economics. He will remain in the department as a professor pursuing his interests in research and teaching. Dr. Boehlje is recovering well from his recent car accident. The prognosis for a relatively full recovery continues to be good, however, he will have additional abdominal and elbow surgery this fall or winter.

SEMINARS THIS WEEK

MONDAY, JUNE 4

Forest Resources Seminar

Estimating significant changes in sediment transport with changes in land use. William Olson in 100 Nat. Res. at 3:00 p.m.

THURSDAY, JUNE 7

Forest Resources Seminar

Modeling patterns of forest ingrowth. Stephen R. Shifley in Room 19 Green Hall at 2:00 p.m.

POSITION ANNOUNCEMENTS

- Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.
- Plant Molecular Biologist (M.S. degree), Plant Science Research, Inc., Minnetonka, MN.
 - Asst. or Assoc. Prof., Regulation of Plant Gene Expression, Dept. of Horticulture, Univ. of Illinois, Urbana, IL.
 - Senior Station Superintendent, Dept. of Agronomy, Oklahoma State Univ., Stillwater, OK.
 - Dean, College of Liberal Arts, U of M, Minneapolis, MN.
 - Asst. Prof. of Landscape Architecture, Dept. of Horticulture, Washington State Univ., Pullman, WA.
 - Crops and Soils Agent, Clark County, Cooperative Extension, Univ. of Wisconsin, Madison, WI.
 - Wellhead Protection Project Manager, Stevens Point Area, Cooperative Extension, Univ. of Wisconsin, madison, WI.
 - Asst. Prof. of Agronomy, Cotton, Dept. of Agronomy, Univ. of Missouri, Delta Center, Columbia, MO.
 - Research Assistant/Associate - Soil Biophysics/Physics, Dept. of Plant Science, South Dakota State Univ., Brookings, SD.
 - Farm Advisor-Irrigation/Water Management, Imperial County, Univ. of California, Oakland, CA.



Agronomy Gleanings

June 8, 1990

M.W.
#9865

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

MESSAGE FROM BURNSIDE

As I prepare to step down as Head I thought I should give you a short description of the state of the department as well as some reasons for my decision. The department has either been retrenched or costs have increased over \$100,000/year during the past 5 years. This has necessitated considerable reduction of project funds, ARS support, departmental positions, and financial flexibility. Cuts have generally occurred from research projects with the most funds, and little has been taken from teaching or extension as they did not have much to start with. I have tried either to not cut positions or attempted to reassign individuals that had to be cut when programs were phased out.

Faculty have responded to these budget cuts by writing for and receiving more grant support so that we now have an all time record number of graduate students, civil service employees, post-doctoral research associates, research publications, and overall productivity. Communications in the department have been increased by setting up a Faculty Advisory Committee, using routing slips to share information, liaison committees with civil service and graduate students, annual newsletter to alumni, expanded use of Agronomy Gleanings, and exit interviews with all employees. The number of awards given to faculty, staff, and students have markedly increased because we have increased the number of nominations being submitted. Our civil service award has been copied by a number of other units. In the past five years we have accumulated nearly \$3 million in endowments, five perpetual undergraduate scholarships plus getting the seven DuPont scholarships reinstated, over \$50,000 in free pesticides, several graduate fellowships, a well equipped computer room, and many improvements to our physical facilities. We have written everything from Operating Procedures to Performance Standards and our Welcome to the Department brochure has proved very useful. The department's reputation outstate continues to improve as our clientele appreciate everything from varieties released to sound crop production information imparted. We must not lose contact with our 17 plus commodity or support groups in greater Minnesota as

they will become increasingly important for financial and legislative support of our programs. This department has not had an increase in number of faculty in 25 years yet our support groups are demanding more and more from us (they are presently advocating nine new faculty positions). Also, we observe increasing cooperativeness, productivity, and interaction within the department.

I recently received my 5 year review. I received good to excellent ratings from civil service staff, graduate and undergraduate students, outstate agronomists, fellow heads and superintendents, commodity officers and leaders in greater Minnesota, industry personnel, and regional and national agronomic administrators. However, I was not satisfied with the support I received from the faculty so I am resigning as Head, effective July 1, 1990. I hope once again to become a productive weed scientist, and I look forward to cooperating with many of you in the future.

FISHING TRIP

The Agronomy Fishing Trip is set for the weekend of June 15-17 at Leech Lake. Have a good and safe trip.

AGRONOMY LAB PERSONNEL

We now have a 160 liter bank of liquid nitrogen set up in Room 592 Borlaug Hall for your use. Just record how much you take and your supervisor's name in the log book attached to the tank. The tank will be replaced on demand for the coming year.

FACULTY AND GRAD STUDENTS

ASA abstracts are due very soon. Get your ASA abstracts in to the secretaries for typing as early as possible. Several secretaries will be on vacation so don't wait until the last minute. Thanks.

FIELD DAYS

Mark your calendars. The fall field days for Morris (Sept. 11); Lamberton (Sept. 12); Waseca (Sept. 13).

NEW POSTDOCS

We have two new postdocs in the department. Please welcome **Shahryar Kianian** who recently completed his Ph.D. at the Univ. of California-Davis in Plant Molecular Genetics. He will be working with Ronald Phillips on the Oat Molecular Genetics Marker Project.

Also welcome **Howard Skinner** who recently completed his Ph.D. at the University of Missouri in Agronomy. He will be working with Steve Simmons.

AG. ECON. SEMINAR

Ag. and Applied Econ. will hold their Annual Alumni Seminar on Tuesday, June 19th from 2-3:30 p.m. in Room B35 Classroom Office Building. Dr. Robert Herdt, Director of the Ag. Sciences Division of the Rockefeller Foundation will discuss "Biotechnology for Third World Development."

NOTE FROM SUE NIELSEN

I will be going to half days beginning June 11th. My hours will be 8 a.m.-Noon. I will water in the greenhouse twice per day - right when I get to work and right before going home at noon. Please check your greenhouses later in the afternoon. Any requests for soil or growth chambers can be made by leaving a message on the tape machine (5-3153). I will go back up to 3/4 time beginning Sept. 1. Thanks.

Sue Nielson

CROP SERVICE BLDG. CLEAN-UP DAYS

June 25 to 29 are going to be clean-up days for the Crop Service Bldg. Please check the dryers and drying racks in the east end of the building. Any samples not having a current "1990" date on them are going to be thrown out. I am going to be checking the dryers, racks, and other storage the first week of July. Unless I am contacted beforehand, I will discard all samples not properly labeled. Thanks.

Tom Warnke (625-3153)

FAREWELL FOR MICHAEL ANDERSON

A farewell for Michael Anderson is scheduled for Thursday, June 14 at 3:00 p.m. in 306 BH. Michael is leaving for Oklahoma State University where he has accepted a faculty position in the Agronomy Department.

BOOK RECALL-AGRONOMY LIBRARY

The Agronomy Library would like to recall all books, theses, and bound journals that are currently checked-out. We need to update our "checked-out" file. Some of the books and theses have been checked-out for over a year and we need to know if you still have them. Please return these materials to Pat Kessler (302 Agronomy) during the next week. If you wish to keep the book or theses, you can check it back out. Thanks.

The Library Committee

FACULTY GRANT PROGRAM

Please see Avis for application materials for the Office of International Education, Faculty Grant Program, 1990-91. Deadlines are May 15, August 15, November 15, and February 15.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Farm Advisor-Livestock/Natural Resources, Univ. of Calif., Oakland, CA.
- Asst. Prof. in Turfgrass Science, Dept. of Horticulture, Univ. of Nebraska, Lincoln, NE.
- Water Quality Educator, East River Water Quality Project, Univ. of Wisconsin Extension Service, Madison, WI.
- Post-Doc Research Assoc. in Genetics, Dept. of Agronomy, Purdue Univ., W. Lafayette, IN.
- Post-Doc Research Assoc. in Dept. of Plant Pathology, Kansas State Univ., Manhattan, KS.

SEMINARS THIS WEEK

MONDAY, JUNE 11

Special Seminar - Biological Process Tech. Molecular Analysis of a Pheromone-Inducible Surface Protein Mediating Cell Aggregation in *Enterococcus faecalis* by Dr. Rheinhard Wirth, Institute of Genetics and Microbiology, University of Munich, FRG, 4:00 p.m., 239 Gortner Lab.

PLANT BREEDING DISCUSSION GROUP

Thursday, June 14, 7:00 p.m. at Dr. Busch's home. Topic will be "Biotechnology's Bitter Harvest" Herbicide-Tolerant Crops and the Threat to Sustainable Agriculture. Special guests will be Margo Stark and Ken Taylor. A booklet will be placed in the Agronomy Library and a couple of copies will be circulated. Please read this booklet before the discussion.

CORRECTION IN LAB NUMBER

Please note that the correct lab number that Hans Jung would be taking (if approved at the July Faculty Meeting) is **Borlaug 592**. The letter Don Barnes distributed to you regarding this potential move listed the incorrect lab room number.

TWO GENETIC BOOKS AVAILABLE

Two genetics books are available to anyone who would like to have one: Sinnott, Edmund W. and L.C. Dunn. 1939. Principles of Genetics. McGraw-Hill Book Comp., Inc. and Srb, Adrian M., R.D. Owen, and R.S. Edgar. 1965. General Genetics. H.W. Freeman and Co. See Pat Kessler in 302 Agronomy.

FOR SALE

Matching dresser & chest of drawers. \$140 or b/o. Call Vicky Mackerman: 624-0763 days or 645-7753 evenings.

MLW
9A9863

Agronomy Gleanings

June 15, 1990

*Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota*

GRAD STUDENT

SPRING/SUMMER PICNIC

All Agronomy grad students are encouraged to attend the spring/summer picnic next **Wednesday, June 20** at the Dale Street Shelter of Central Park in Roseville. Please bring your own meat and a dish to share. Grilling equipment, table service, and beverages will be provided by the Grad Club. Plan to arrive at 5:00 p.m. or as soon as you can get there. Bring family and friends. Also, bring your softball and/or volleyball gear. See the posted announcement, your mailbox announcement, or Paul Peterson for directions or meet in front of Borlaug Hall by 4:45 p.m. if you'd like a ride. See you there!

FEDERAL EXPRESS

Federal Expression materials have been moved to 408 BH. This includes airbills, envelopes, packaging, etc. Marilyn or Judy will also issue you a purchase order number when you pick up the appropriate airbill. A purchase order number must appear on ALL airbills.

THANK YOU

Dear Friends in the Agronomy Dept.
Thank you so much for the lovely geraniums - a variety I haven't seen before! They are a cheery note to brighten these days and I especially appreciate the caring thoughts behind them. We are expecting treatment to be successful and are "thinking positive"! Thanks again.

Blythe Thompson

ROOMMATE NEEDED

A roommate to share a two bedroom apartment near St. Paul Campus is needed starting August 1, 1990. Please spread the word around and if interested, contact Aziz at 644-3871 or 625-9706 (office).

POSTDOCTORAL RESEARCH FELLOWSHIPS IN PLANT BIOLOGY

Divisions of Molecular and Cellular Biosciences. Deadline for applications, including references and sponsoring scientist's statement is November 1, 1990. Please see Avis for further information.

INTERIM ASSOC. DIRECTOR, AES-COA

Entomology Department Head Dr. Richard Jones has been appointed as the Interim Associate Director for the Agricultural Experiment Station within the College of Agriculture. Dr. Jones will serve in this position for the next six months or until the time a new dean comes on board. He will be in the College Office, 277 Coffey Hall, Monday through Wednesday and can be reached at 624-6252.

AWARD CEREMONY

An Outstanding Achievement Award Ceremony will be held for Richard Bonde, June 18, 1990 at 3:30 p.m. in the Cherrywood Room, St. Paul Student Union. Everyone is invited to attend.

1990 MN WEED TOUR

The Southern Minnesota Weed Tour will be held June 28 at the Southern Experiment Station in Waseca. The schedule is as follows: 9:00-12:00 Noon, On-Station Plot Tour, Weed control in corn and soybeans. 1:00-3:00 p.m., Special Off-Station Bus Tour, Wild proso millet and woolly cupgrass control in corn and soybeans. Meet at the Waseca Station.

The joint Minnesota-North Dakota Weed Tour will begin at the Agronomy Seed Farm, Casselton, ND on Tuesday, July 10 at 8:30 a.m. On July 11th, the tour will continue at the Northwest Experiment Station, Crookston, MN. The tour will begin at 9:00 a.m. Meet at the North Farm which is located on the west side of Highway 75 about 1.25 miles north of the Technical College. We will meet at the North Farm Headquarters building and then drive to the various plot areas.

SEMINARS THIS WEEK

WEDNESDAY, JUNE 20

Plant Biology Seminar

Microtubule organization: insights from experiments with giant Characean internodal cells by Geoff Wasteneys, Research School of Biological Science, The Australian National University, Room 70 Biological Science Center at 12 Noon.



"I don't care if they are the biggest fish you ever caught! Get 'em out of here!"

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Extension Agent, Agronomy, Weld County, Greeley, CO.
- Assistant, Associate, or Full Professor, Agronomic Ecosystems, Dept of Agronomy and Soils, Clemson University, Clemson, SC.
- Lecturer (full-time), Biological Sciences Dept., California Polytechnic State University, San Luis Obispo, CA.
- Assistant County Agent (Agricultural Competency), Tuscaloosa County, Tuscaloosa, AL.
- Assistant County Agent (Agricultural Competency), Mobile County, Mobile, AL.
- Research Associate (Variety Testing), Dept. of Agronomy, University of Arkansas, Fayetteville, Arkansas.
- Assistant/Associate Professor of Agronomy, Soybean Breeding and Genetics, Dept. of Agronomy, University of Arkansas, Fayetteville, Arkansas.
- Assistant or Associate Professor, Texas Agricultural Experiment Station, Ornamental Horticulture and Plant Physiology, Texas A&M, El Paso, TX.
- Research Associate, Potato Weed Science, University of Idaho, Moscow, Idaho.
- Assistant Professor, Ornamental Horticulture, New York State College of Ag. and Life Science, Cornell University, Ithaca, NY.
- Extension Soil Conservation Specialist (Huntington, Indiana) and Soil Fertility Extension Specialist (West Lafayette, Indiana), Purdue University, West Lafayette, IN.

new
9A9862

Agronomy Gleanings

June 22, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

FISHING TRIP

Doug Swanson was the winner of the traveling trophy for top fisherperson at the Agronomy Fishing Trip held at Leech Lake last weekend for his success in catching northern and pan fish with most total weight. Ron Phillips received honorable mention for catching the biggest fish (3.5# walleye). Donn Vellekson will be in charge of planning next year's fishing trip.

Thank you to Mark Matteson for his hard work in planning and coordinating this year's trip. It sound like everyone had a good time even though the fish weren't biting very well.

THANK YOU TO MARY LAMBERT

Mary Lambert has donated 22 books to the Agronomy Library and 2 books to the Soil Science Library from Jean's collection. The Department is very appreciative of this donation. Thank you.

INTERIM DEPARTMENT HEAD

Dr. R. Kent Crookston has been selected to serve as Interim Head of the Department of Agronomy and Plant Genetics effective July 1, 1990.

MEAL COST REIMBURSEMENT

The meal cost reimbursement policy has been revised further as follows. Meal costs will not be reimbursed when incurred when traveling on University business, when an overnight stay away from home is not required, unless:

- 1) The employee is scheduled to arrive home later than the normal hour of their evening meal and, therefore stops enroute to purchase an evening meal, or
- 2) The business purpose of the meal cost is documented with the reimbursement request. The following information is necessary to satisfy this requirement:
 - a) Nature of business benefitting the University which was transacted as part of the meal.
 - b) Location of business meal.
 - c) Name(s) and business relationship(s) of other individual(s) in attendance at business meal. (Note: Other individuals must be present at the meal for the cost to be reimbursed. This policy revision is not retroactive.

CONGRATULATIONS ERV OELKE

Dr. Ervin Oelke has been granted an honorary lifetime membership in the International Wild Rice Association. The notice said, "There are many people that have dedicated long hard hours to the wild rice industry, but we feel none can compare to Dr. Oelke." He is the first individual awarded this recognition and will be presented with his lifetime membership card at the IWRA convention in January 1991. Congratulations.

NEW SUSTAINABLE AG. JOURNAL

The Journal of Sustainable Agriculture has recently been introduced. There will be a copy of the first issue, along with information on subscription rates, placed in the Agronomy Library.

NEW BABY

Jeanie Stamm-Katovich, a former graduate student with Don Wyse, had a baby girl on June 8. The baby weighed 6 lbs. 10 oz. and they have named her Laura Elizabeth.

NEW GASOLINE CREDIT CARD

The University is switching to a Universal Gasoline Credit Card system. The new cards can be used just as the old Amoco cards, for fuel and emergency road repairs. However, the new cards can be used at 12 different brands of gasoline stations. These brands are listed on the back of the card. The brands were chosen to be able to use the card in any area of the United States and Canada. This should eliminate the need for carrying multiple credit cards and reimbursements for fuel when a valid brand is not available. The current Amoco cards expire June 30, 1990, and are not valid after that date. **Please turn in your old cards to me before June 30 so I can exchange them for the new one. Thanks. Tom Warnke.**

CIVIL SERVICE EVALUATIONS

Attention Supervisors: Please return the employee performance and/or probationary appraisal forms to Avis by June 30. Thank you.

NORTH CENTRAL ASA POSTERS

Poster papers for the North Central ASA meetings on the St. Paul Campus on July 30 and 31 are invited. Send title, authors and a brief abstract to W.E. Larson by July 1. A \$100 award for the best student poster will be awarded. Posters will be displayed in the foyer of Borlaug Hall.

CONGRATULATIONS NAT PAGE

Nat Page has been awarded a Graduate School Doctoral Dissertation Fellowship for 1990-91. Over 130 candidates from across the University were nominated with only 50 awards given. Congratulations Nat.

TOULENE AVAILABLE

Keith Henjum, 543 Borlaug, 5-7714, has 4 liters of Toulene (unopened) available. Please contact him if you are interested.

RECYCLING NEWS

The University Recycling Program will now recycle corrugated cardboard and brown paper bags. They have placed a recycling bin for these materials at the Soil Science loading dock. Remove any styrofoam, plastic wrap, and non-cardboard materials and flatten the box. They will not accept wax-coated cardboard, single-ply cardboard, corrugated cardboard with oil stains (pizza or donut boxes). Call the Recycling Hotline at 5-8084 if you have questions or if you have a lot of material to be recycled. Thanks.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Plant breeder/statistician, United AgriSeeds, Champaign, IL. (M.S. degree)
- Research Specialist I, Soil Science Dept., Dickinson Research Center, North Dakota State Univ., Fargo, ND. (B.S. degree)
- Research Scientist, Plant Breeder for fresh tomato breeding program, Sunseeds Genetics, Inc., Hollister, CA. (Ph.D.)
- Assistant Agronomist, North Dakota State Univ., North Central Res. Center, Minot, ND. (M.S.)
- Plant Breeder/Geneticist-Small Grains, Utah State Univ., Plants, Soils, and Biometeor. Dept., Logan, UT. (Ph.D.)
- Forage Scientist, Asst./Assoc. Prof., Utah State Univ., Plants, Soils, and Biometeor. Dept., Logan, UT. (Ph.D.)
- Asst./Assoc. Prof. in soybean breeding/genetics, Michigan State Univ., East Lansing, MI.
- Fellowship and Training Officer, Winrock Int'l. Institute for Ag. Development, Morrilton, AK.
- Horticulture Agent, Kenosha County, Univ. of Wisconsin, Cooperative Extension, Madison, WI.
- 1) Information System Officer (Plant Genetic Resources and Seeds); 2) Senior Officer (Plant Biotechnology) with FAO of United Nations, Rome, Italy.
- Asst. County Agent, Alabama Cooperative Extension Service, Auburn Univ., AL.

AT 56 SECONDS after 12:34 on July 8, 1990, we shall observe the perfect sequence of one-digit numbers—12:34:56, 7/8/90.

**Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota**

CIVIL SERVICE EVALUATIONS

Attention Supervisors: Please return the employee performance and/or probationary appraisal forms to Avis by June 30. Thank you.

4th OF JULY HOLIDAY

The University will be closed in observance of Independence Day on Wednesday, July 4th. Stay cool and stay safe!

LOST CLIP BOARD

Has anyone found a clipboard with some data on it anywhere in the department? If so, please give it to Lynne in 411 Borlaug Hall. Thank you.

GRAPHICS CARD AVAILABLE

We have a Hercules Graphics Card Plus available (free) for a computer. If anyone wants it see Lynne in 411 Borlaug Hall.

We also have several new computer cables available for anyone who needs them.

CONGRATULATIONS TO OPENSHAW

Steve Openshaw has been promoted to full membership on the Plant Breeding Graduate Faculty. Congratulations.

POLICY & PROCEDURE TRAINING

If you missed the Policy and Procedure training session on Thursday, June 28, you can still come Monday, July 2nd, 8:30 a.m. in Room 408 Agronomy.

NORTHCENTRAL ASA MEETINGS

The North Central Branch of the American Society of Agronomy will meet on St. Paul Campus on July 29-30-31. We expect over 400 attendees. It will be appreciated if faculty and students register as soon as possible so we can plan for food functions. Faculty registration is \$35 before July 15 and \$45 after July 15. Student registration is \$20 before July 15 and \$30 after July 15. Registration includes the reception on July 29 and lunch on July 30. The picnic (barbecue) on the night of July 30 is \$10. Remember to register your spouse. Registration forms are available in 411 Borlaug Hall.

RECRUITING VIDEO

Rose Jones has completed the Undergraduate Recruiting film (only 9 minutes long) and it will be shown to those interested at 11:00 a.m. July 2, 1990, in 335 Borlaug Hall. Take the time to observe this outstanding recruiting effort.

DONATE EXTRA BOOKS/JOURNALS

Dr. Phil Larsen, Plant Path., reports that university libraries in Rwanda and Uganda are in dire need of agricultural publications of all kinds. Does anyone have back issues of professional journals, books, monographs, etc., that they might want to donate. Delane Welsch will ship any materials collected to these countries. Phil Larsen has agreed to coordinate the collection of these materials. Contact Delores Huebner, Administrator in Plant Path., at 624-8200 if you wish to contribute library materials. For shipping purposes they need to know the approximate weight or cubic feet of materials. If you cannot estimate cubic feet then give linear feet of shelf space needed for the publications. Please respond to this request by July 31. Thank you.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Research Plant Physiologist to work on herbicide tolerant hybrid poplars produced by tissue culture work, USDA-ARS, Rhinelander, WI.
- Corn breeding position with DeKalb Pfizer Genetics near Urbana, Illinois, Contact John Pfund (815/758-9136).
- Director, Western Regional Research Center, USDA-ARS, Albany, CA.
- Assistant County Agent, Alabama Cooperative Extension Service, Grove Hill, AL.
- Postdoctoral position in plant molecular pathology, USDA-ARS, Iowa State Univ., Ames, IA.
- Research Associate II, Agronomy Dept., Iowa State Univ., Ames, IA.
- Asst./Assoc. Cooperative Extension Specialist for Sugar Crops, Oil Crops, and Alternative Crops in Rotational Systems, Dept. of Agronomy, Univ. of Calif., Davis, CA.
- Biotechnologist, ICARDA, Aleppo, Syria.
- Extension Specialist, Crops and Soils, Asst. Prof. of Agronomy, Dept. of Agronomy, Manhattan, KS.

Agronomy Gleanings

July 6, 1990

MW
9Ag865

**Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota**

MESSAGE FROM CROOKSTON

To all faculty, postdocs, staff, students and friends: Just a note to share a few of my feelings and perspectives as I begin my assignment as interim head. I look forward to the coming months as a special opportunity to interact with each of you. I have the best of feelings for every person on our team. I know that our Department, College and University are among the best in the world. In fact, I find it rather 'awesome' to be at this key institute at this particular time -- when agriculture (and Land Grant institutions in particular) are confronted with such an array of challenges and opportunities.

I will be scheduling a visit with each of you as soon as can be arranged. It may be September before I contact many of you. I have several commitments that I must honor between now and then including some vacation time with my family and a visit to Rwanda (August 6 to September 6). Kent Crookston

DONATE EXTRA BOOKS/JOURNALS

Dr. Phil Larsen, Plant Path., reports that university libraries in Rwanda and Uganda are in dire need of agricultural publications of all kinds. Does anyone have back issues of professional journals, books, monographs, etc., that they might want to donate. Delane Welsch will ship any materials collected to these countries. Phil Larsen has agreed to coordinate the collection of these materials. Contact Delores Huebner, Administrator in Plant Path, at 625-8200 if you wish to contribute library materials. For shipping purposes they need to know the approximate weight or cubic feet of materials. If you cannot estimate cubic feet then give linear feet of shelf space needed for the publications. Please respond to this request by July 31. Thank you.

GLASSES FOUND.

A pair of glasses in a black case have been turned in to the main office (411 Borlaug Hall) in Agronomy. If they are yours see Lynne.

NEW PUBLICATION IN LIBRARY

The Herb, Spice, and Medicinal Plant Digest, prepared by the Dept. of Plant and Soil Sciences, Univ. of Massachusetts, Amherst, MA, is available in the Agronomy Library.

NORTHCENTRAL ASA MEETINGS

Faculty, Postdocs, and Students: Minnesota is hosting the North Central Branch of the American Society of Agronomy (ASA) annual meetings this year. We expect over 400 attendees. Bill Larson, Dale Hicks, George Rehm and others have put together an excellent program. Registration and participation from our non-campus colleagues (particularly industry) looks good to date; University of Minnesota registration and participation does not. We're particularly shy in the poster area. Please consider attending and, if possible, presenting a poster. Posters must fit on a 4' x 8' styrofoam board (board will be provided). Send title, authors and a brief abstract to W.E. Larson, 172 Borlaug, by July 15. Abstracts can be published in Agronomy Abstracts if authors wish. Follow the format for the national meetings. Student posters are encouraged; there's a \$100 prize for the best student poster. Since a lot of our professional colleagues will be in attendance, we ought to offer them a good sampling of what we're doing here. Even if you have recently presented part of a poster at another (i.e. national) meeting, or if you intend to present it in the future, take this opportunity to share your results in a local format. Don't forget the opening reception (Sunday, July 29, in Borlaug Hall from 7:30-9:30 p.m.) and the barbecue (Monday, July 30, 6:00 p.m. at Roseville's Central Park). Registration information and schedules are available in 411 Borlaug Hall. Faculty registration is \$35 before July 15 and \$45 after July 15. Student registration is \$20 before July 15 and \$30 after July 15. Registration includes the reception on July 29 and lunch on July 30. The picnic (barbecue) on the night of July 30 is \$10. Remember to get a barbecue ticket for your partner. Thanks for your support! Kent Crookston

FAREWELL COFFEE FOR L. WATERS

A farewell coffee for Luther Waters, outgoing Director of the Center for Alternative Plant and Animal Products, has been scheduled for 9:30 a.m. on Wednesday, July 11th in 306 Borlaug Hall. Dr. Waters has accepted a new position as Chair of the Department of Horticulture at Ohio State University.

MISSING JOURNALS

Please return these journals to the Agronomy Library so they can be sent to the bindery.

Genome April 1989, No.2, Vol. 32,

October 1989, No. 5, Vol. 32.

Weed Science July 1989, No. 4, Vol. 37.

Plant Physiology January 1989, Vol. 89,

No. 1; September 1989, Vol. 91, No. 1;

November 1989, Vol. 91, No. 3.

OLYMPIC FESTIVAL

The 1990 U.S. Olympic Festival will run from July 7 through July 14. Several events will be held on the Minneapolis Campus. People will be parking at the Minnesota State Fairgrounds and at the Como lot. Free buses will run every 5 minutes, 6:30 a.m. to 6:00 p.m. from these two parking lots to the Minneapolis Campus. The charge for parking at the Fairgrounds will be waived for this week. There will be free entertainment during the Festival on Northrup plaza from 7-10 p.m. nightly.

SPEAKERS BUREAU

University Relations is compiling a Speakers Bureau, a listing of faculty and staff and the topics on which they speak, for the benefit of organizations throughout the state. To be included on the list, call or write Tim Kuhn (626-8687, 6 Morrill Hall.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Farm-Advisor-Vegetable Crops, Riverside County, California Cooperative Extension, Coachella Valley.
- Director of Science, Land Stewardship and Registry with the Iowa Nature Conservancy, Des Moines, IA.
- Lab Data Manager, Pioneer Hi-Bred International, Inc., Johnson, IA.
- Position with the Missouri Botanical Garden (Flora of China), St. Louis, MO.
- Research Specialist in Agriculture - Soil Fertility, Univ. of Illinois, Dept. of Agronomy, Urbana, IL.
- Corn Breeder/Station Manager, United AgriSeeds, Champaign, IL.
- Weed Scientist (Asst. Prof), Dept. of Plant and Soil Science, Univ. of Tennessee, Knoxville, TN.
- Soil Scientist/Microbiologist, USDA-ARS, Crop Protection Research Unit, Urbana, IL.



"Yoohoo! May we borrow your bathroom?"

HW
7-9865

**Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota**

NEW ST. PAUL PHONEBOOKS

If you want new St. Paul phone books (yellow and white pages) bring your old books to 411 Borlaug Hall and sign the sheet on the front desk on Friday, July 13, or Monday, July 16. New books will be delivered next week. Only those people who have brought an old book and signed the list will receive new books. Additional phone books will not be available in our office, you'll have to go to the Shops Building to get them. The University is attempting to increase the number of phone books recycled. Using this method of "give a book/get a book" increased the amount of phonebooks recycled by over 50%.

FARM SHOP MEETING

I have scheduled a meeting with Les Potts, farm and grounds superintendent for Minneapolis and St. Paul Campuses for Wednesday, July 18th, 10:00 a.m., 306 Borlaug Hall. He has agreed to meet with us to answer any questions that we have concerning the operation of the Shop on the St. Paul Campus. If you have concerns about the maintenance and repair of your plot equipment, billing rates, new management, etc. Try to attend. Tom Warnke

DEATH

We received sad news from Morocco this week. Dr. Ahmed Zahour was killed in an automobile accident on July 8. Dr. Zahour was the first Moroccan to receive a Ph.D. on the Minnesota-Morocco project (University of Minnesota and Institut Agronomique et Veterinaire). Don Rasmusson was his advisor, Lynn Gallagher and Kent Crookston cooperated extensively with him in Morocco. Ahmed has made significant contributions to the agriculture of his own country and even well beyond Morocco's borders through his work with ICARDA. Ahmed was known and well-liked throughout his country. He was an extremely hard worker, consistently friendly, and had a remarkable ability to interact with all classes of people, particularly the peasant farmers and shepherds. Dr. Mohammed Oussible, our mutual colleague, was a dear and loving friend to Ahmed. Ahmed Zahour was survived by his wife, Layla, and two daughters, Hajar and Aya, ages 6 and 2.
Kent Crookston

SURGERY

Dave Sandstrom, from the Rosemount Experiment Station, had gall bladder surgery on Monday, July 9 at St. Mary's Hospital in St. Paul. Flowers were sent by the Flower and Gift Committee.

M.S. THESIS DEFENSE

Rosheila Vather will defend her M.S. thesis at a seminar on Monday, July 16 at 9:00 a.m. in 306 Borlaug Hall. The title of her thesis is, "Activity of Starch Synthesis Enzymes of Genetic Translocation Lines of A188."

PUBLICATIONS FROM ORTTA

The Office of Research and Technology Transfer Administration (ORTTA) will be discontinuing the publication of sponsored program deadline information in Research Review, their monthly publication. Instead, information will be distributed in two ways: a quarterly distribution of DEADLINE to the department and college offices, and electronically through ORTTA Bulletin Board. A copy of DEADLINE will be available in Avis's office.

Avis Kunkel

NORTHCENTRAL ASA MEETINGS

Faculty, Postdocs, and Students: Minnesota is hosting the North Central Branch of the American Society of Agronomy (ASA) annual meetings July 29-31. Plan to attend and present a poster. Posters must fit on a 4' x 8' styrofoam board (board will be provided). Send title, authors and a brief abstract to W.E. Larson, 172 Borlaug, by July 15. Abstracts can be published in Agronomy Abstracts if authors wish. Follow the format for the national meetings. Student posters are encouraged; there's a \$100 prize for the best student poster. The opening reception will be Sunday, July 29, in Borlaug Hall from 7:30-9:30 p.m. and the barbecue is Monday, July 30, 6:00 p.m. at Roseville's Central Park. Registration information and schedules are available in 411 Borlaug Hall. Faculty registration is \$35 before July 15 and \$45 after July 15. Student registration is \$20 before July 15 and \$30 after July 15. Registration includes the reception on July 29 and lunch on July 30. The picnic (barbecue) on the night of July 30 is \$10.
Kent Crookston

MISSING JOURNALS

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October 1989, No. 5, Vol. 32.

Weed Science July 1989, No. 4, Vol. 37.
Plant Physiology January 1989, Vol. 89,
No. 1; September 1989, Vol. 91, No. 1;
November 1989, Vol. 91, No. 3.

FURNISHED HOUSE FOR RENT

A furnished house is available for rent in Prospect Park September 1990 through January 1991. Looking for a trustworthy person(s) to move in while on a scholarship overseas for 5 months (price highly negotiable). Call Brian Larson (days) at 871-6864.

CABIN WANTED FOR ONE WEEK

Does anyone know of a cabin for rent for two people, August 23-30. Prefer a cabin north of the Twin Cities on a good fishing lake. Please call Vicky Mackerman if you know of one (625-0763 days) or (645-7753 evenings). Thanks.

FEMALE ROOMMATE FOR ASA

Virginia Peschke, a former graduate student in our department, is looking for one or more women to share a room at the ASA meetings this fall. If you are interested please call her at 314/889-4728 (lab) or 314/434-4236 (home), or write to her at the Department of Biology, Washington University, Campus Box 1137, St. Louis, MO 63130. Thank you.

SPECIAL AGRONOMY SEMINAR

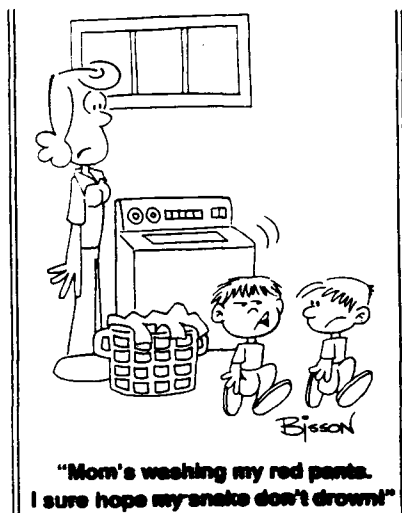
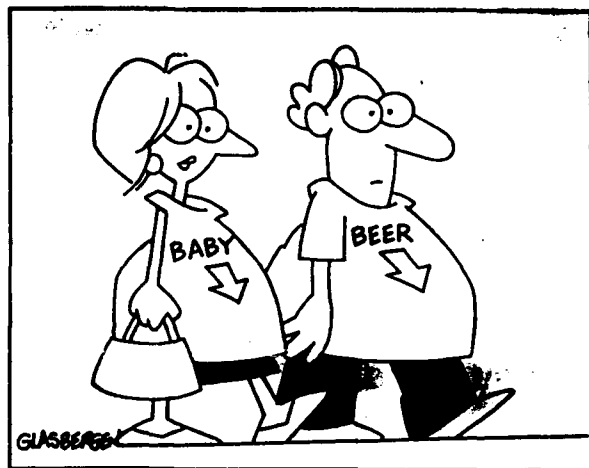
Mark your calendars for Thursday, August 9. Dr. Bob Wych, production research manager for Pioneer Hi-Bred International, Inc., will present a seminar, "An overview of seed corn production at Pioneer International", from 10:00-11:30 a.m., 306 Borlaug Hall.

THE END OF PALMER CLASSROOM

The Palmer Classroom Building (to the south of Borlaug Hall) will be torn down, possibly as early as Spring Quarter 1991, to make room for the new College of Biological Sciences building addition. The reduction of classroom space will make new demands for existing classroom space and a modification of current priorities for assigning the classrooms. If you foresee any problems or concerns regarding classroom space on the St. Paul Campus please call or write to Robert B. Kvavik, Associate Vice President for Academic Affairs, 213 Morrill Hall, Mpls. Campus, (625-0051) or Elizabeth Grundner at the Office of the Registrar (625-4094). Thank you.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall. - Weed Specialist, Agricultural Extension Service, Plant and Pest Diagnostic Laboratory, Univ. of Tennessee, Nashville, TN.



"Mom's washing my red pants.
I sure hope my snake don't drown!"

Said one frog to another as they sat on a lily pad, "Time sure is fun when you're having flies."

•••

Have you ever wondered what people in hell say when they want to tell someone where to go?

Something to think about

If Ida Lupino married Don Ho, she would be Mrs. Ida Ho.

If you cross a gorilla with a computer, you would come up with a hairy reasoner.

Agronomy Gleanings

July 27, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

NORTHCENTRAL ASA MEETINGS

Faculty, Postdocs, and Students:
Minnesota is hosting the North Central Branch of the American Society of Agronomy (ASA) annual meetings July 29-31 (mainly in Earl Brown Center). Plan to attend.

WELCOME NEW PEOPLE

Please welcome **Janita Sellner** who will be working on a Ph.D. in Burle Gengenbach's lab. Janita has a B.S. in Biochemistry from Iowa State University.

Welcome back to **Dr. Christine Nebiolo** who is on sabbatical leave and is working on cytoplasmic sterility of corn in Burle Gengenbach's lab. Chris is an Associate Professor of Biology at Allegheny College in Pennsylvania and spent 2 months here last summer.

Welcome back to **Kathleen Storey** who will resume a position as Assistant Scientist on Burle Gengenbach's project. Kathleen had this position from 1980 to 1987 before moving out of town for several years.

Welcome to **Todd Krone** who will be working on a Ph.D. in Ron Phillips' lab. Todd has a B.S. in Agronomy and M.S. in Plant Breeding from the Univ. of Illinois-Urbana. Todd is a recipient of a Graduate School Fellowship.

Welcome to **Geoffrey Graham** who will be working on a M.S. in Ron Phillips' lab. Geoff has a B.S. in Agronomy from the Univ. of Minnesota.

Welcome to **Philip Schwab** who will be working on a M.S. in Don Barnes' lab. Philip has a B.S. in Crop and Soil Science from Michigan State University and is also a recipient of a Graduate School Fellowship.

Welcome to **Kevin Van Dee** who will be working on a M.S. in Don Wyse's lab. Kevin has a B.S. in Agronomy from Iowa State and just completed 8 months of course work at Glasgow University in Scotland.

UNIVERSITY SENATE

Dale Hicks and Deon Stuthman were elected to represent the College of Agriculture on the University Senate for the next three years. Congratulations. Don Rasmusson will also continue on the university senate until 1992.

THANK YOU

Thank you to the staff from agronomy who helped with our summer field day. We had almost perfect weather including rain the day before. Well over 600 visitors went on various tours and speakers were kept busy as 13 double wagons went on the weed tour and 11 double wagons went on the variety tour. We can't put on a good field day without substantial help from the department.

Dennis Warnes

OLD LAB EQUIPMENT WANTED

The Science Museum of Minnesota is looking for donations of used, old, or outdated lab equipment and glassware for a new exhibit laboratory facility they are planning, to better introduce museum visitors to laboratory science. The exhibit will feature the techniques, processes, and concepts of the biological sciences. The laboratory will showcase scientific research via educational museum programming and presentations by guest scientists. In addition, the lab will allow visitors to try some hands-on experimentation themselves. If you have any materials to donate contact Heidi Hohmann, Laboratory Programs Specialist, Interpretation Department, 221-9441. They have sent a list of some of the items they are looking for (from rubber stoppers to microscopes). If you want to see the list check with Lynne in 411 Borlaug. Thank you.

KEYS FOR CARS

Once again we have the same old problem - three sets of keys for each vehicle and when someone comes to use it - not one set can be found. Now, it is not real mysterious as to where the other sets are, however, it takes time - lots of time and aggravation to hunt down the last people who used the vehicle and get them to drop the keys off. We are thinking possibly of taking the keys and putting them in a place where only the office staff can sign them out to the person and if that person does not have them back for the next person, a \$5 per day fine (out of your own pocket) will be imposed. I would welcome suggestions and comments on this never ending problem. Judy Slyter

SEED STORAGE

One of the departmental plant breeding projects has need of additional seed storage (rodent-proof) space. They have offered to rehab the southernmost (38D-4) old walk-in growth chamber in Crops Research basement sufficient to achieve the desired temperature control. The other three growth chambers in that location have already been similarly modified. Does anyone have any objection to using this ex-growth chamber in this manner? If so, please communicate with Dr. Kent Crookston. Thank you.

THANK YOU NOTE

Thanks for the Persian violet you sent me at the hospital. It's nice to be remembered. Dave Sandstrom

STATE FAIR VOLUNTEERS SOUGHT

University Relations is looking for volunteers to work in the exhibit booth in the Education Building at the Minnesota State Fair, August 23-September 3. Faculty, staff, or students can volunteer to serve a 4-hour shift. The shifts are 8:30 a.m.-12:30 p.m., 12:30-4:30 p.m., and 4:30-9:00 p.m. Volunteers will receive a free admission ticket to the fair, but no other compensation. Check the bulletin board outside 411 Borlaug Hall for a volunteer form.

HAZARDOUS CHEM WASTE GUIDES

The 4th edition of the Hazardous Chemical Waste Management guidebook, prepared by the Dept. of Env. Health and Safety Env. Protection Division and Chem. Waste Program, will be available for distribution in Fall 1990. The revised guidebook, developed in response to changes in federal, state, and local regulations, provides instruction and training in the management of hazardous chemical wastes, lab safety, and chemical spill response procedures. The hazardous waste guidebooks will be provided free of charge to Univ. departments and research labs and will be distributed by the Chem Waste Program. If your lab, shop, or service area does not receive the revised guidebook and you are interested in obtaining a copy, please contact the Chem Waste Program (627-4166) to be added to the distribution list.

FACULTY NOMINATIONS SOUGHT

The U of M is planning an institution-wide program to more effectively serve the needs of this state's children, youth, and families, (the Consortium on Children, Youth, and Families). They are planning a fall retreat to generate ideas for the Consortium (tentatively Nov. 7-8) and they are looking for nominations of faculty from our unit to best represent the expertise available at the U. If you are interested in being nominated please let Kent Crookston know by Friday, August 24.

Congratulations to Beth Schreiber who successfully defended her Ph.D. thesis last Wednesday. Beth will remain in the department as a post doc with Nancy Ehlke and Don Wyse.

LAB SAFETY SURVEY

Note to all Faculty and Staff:

Laboratory Safety Services personnel will be asked to survey departmental labs as part of their safety survey operations. Check your own lab or work site. All areas where chemicals are used must have an un-blocked eyewash. All areas with fumehoods must have a safety shower. All compressed gas cylinders must be secured to a wall or counter. For more information on chemical storage and other issues, call 626-6002 and ask to speak to someone in Safety.

FUNDAMENTAL RESEARCH

We have received a copy of "Fostering Fundamental Research for the Future: Accomplishments 1980-90," from the Competitive Research Grants Office of CSRS-USDA. This will be available in the Agronomy library.

SEMINARS

Monday, July 30 Soil Science Seminar

Factors determining the rate and stoichiometry of hornblende dissolution. Hailin Zhang, at 2:00 p.m. in 491 Borlaug Hall.

Tuesday, July 31 Soil Science Seminar

GIS-Based approach for soil-landscape modeling. Dr. Jay Bell, Postdoc associate in the Agronomy Dept. at Penn. State Univ., at 1:30 p.m. in 365 Borlaug Hall.

Monday, August 6 Special Lecture

Plenary Session - Plant Growth Regulator Society of America Meeting. Dr. Charles E. Hess, Assistant Secretary, USDA, will present "Challenges for the U.S. Research Enterprise," in the Casino Ballroom of the St. Paul Hotel at 9:00 a.m.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Head of the Dept. of Agronomy at Oklahoma State Univ., Stillwater, OK.
- Asst. Prof., Teaching-Research Position in Crop Science, Ohio State Univ., Columbus, OH.
- Crops and Soils Agent, Wisconsin Cooperative Extension, Clark County in Neillsville, WI.
- Agricultural Agent, Wisconsin Cooperative Extension, Price County in Phillips, WI.
- Research Geneticist (Plants-Rice) with the Crops Pathology and Genetics Research Unit, USDA, ARS, PWA in Dept. of Agronomy and Range Science, Univ. of California, Davis, CA.
- Post doc in Soil Science Dept., North Carolina State Univ., Raleigh, NC.
- Asst. County Agent, Marion County, Hamilton, AL.
- Research Plant Physiologist, USDA, ARS, Southern Plains Area, Weslaco, TX.
- Plant Physiologist/Agronomist, ARS, National Resources Institute Climate Stress Laboratory, Beltsville, MD.
- Plant Physiologist, USDA, ARS, North Atlantic Area, Appalachian Fruit Research Station, Kearneysville, WV.
- 36-month post doc position with 100% research in wheat breeding and cytogenetics, Dept. of Agronomy, Univ. of Nebraska, Lincoln, NE.

Agronomy Gleanings

August 10, 1990

MIW
aP210

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

NEW BABIES

Congratulations to Brent and Linda Sorenson who had a baby boy, Benjamin Allen, on Friday, August 10. The baby weighed 7 lbs. 2 oz.

Congratulations to Perry and Lisa Miller who had a baby girl, Jasmine Olivia, on Tuesday, August 7. The baby weighed 6 lbs. 7 oz.

All are fine and U of M sweatsuits were given by the Flower and Gift Committee.

PICNIC AT ROSEMOUNT STATION

Dave Sandstrom, at the Rosemount Experiment Station, has offered to provide our department with a picnic at the Rosemount Experiment Station. This is always a lot of fun. Faculty, Postdocs, Staff, Students (Grad and Undergrad) plus your families are all invited and encouraged to attend. We have scheduled this picnic for Thursday, August 23 starting around 6 p.m. We will have barbecued chicken, fresh sweet corn and homemade rootbeer. The cost is \$3.50 for adults, \$1.00 for children 6 to 10, and children under 6 free. Bring a salad, desert, or buns and your own dishes. We will have a hayride and play volleyball after the picnic. If you want to come sign up with Lynne in 411 Borlaug Hall or Jim Halgerson in 4 Crops Research by Monday, August 20. Thanks.

VANDALISM ALERT

The May to September period is associated with more frequent incidents of vandalism in the Experiment Station field areas at the St. Paul Campus. Thus far in 1990, equipment damage has amounted to several thousand dollars and at least one experiment has been damaged. Awareness and self-help play a significant role in deterrence. Please help us by promptly reporting to the University Police Dispatcher (624-7872), or police in the local community, suspicious activity in the fields area during evenings and weekends. Also, alert people who you know are involved in research in the fields.

CHANGES IN INVOICES

Due to recent changes in invoice addresses at the University - Fisher Scientific has assigned us an Account Number. Please try to use it when ordering (Account No. 544676-12).

ORDERS AND INVOICES

It is imperative that you get your order in to us within a day of requesting a purchase order or a contract release order so that we can get them typed and to the company. If you receive an invoice to your attention please bring it to Judy immediately!

AGRONOMY WEED & CROP GARDEN

The Agronomy Weed and Crop Garden is located on Gortner Avenue just north of the Horticulture Greenhouse. The garden contains 70 crops and weeds found in Minnesota. An information sheet is available in the box in the southeast corner of the garden. The garden is used by students in several undergraduate courses, and was made possible by a grant from the Crop Pest Management Program. I welcome any comments or suggestions for improvement of the garden. Bev Durgan

INTERIM ASSISTANT DEPT. HEAD

Mark Ascerno will serve as Interim Assistant Department Head in Entomology while Richard Jones is serving an interim position in the College of Agriculture.

CLASS MATERIALS FOR BOOKSTORE

Attention all staff who have materials duplicated for students to purchase from the bookstore: Books Underground will no longer stock their shelves with duplicated course materials and is recommending that you use the services provided by Copies on Campus. (See flyer posted on bulletin boards for details). You can arrange for pickup by calling 625-3058 or drop off your order at their St. Paul location, across from Books Underground.

ELECTRICAL INTERRUPTION

Sometime during the next 2 to 3 months the Agronomy Building will have an electrical interruption in order for electricians to change-out of PCB transformers. We will receive a notice 2 days before the electrical service is interrupted. Most of these interruptions will occur in the evening or nighttime hours. Call Patrick R. Corkran, Senior Engineer, at 625-5589 with any questions or comments.

AMARANTH SYMPOSIUM

The Fourth National Amaranth Symposium is scheduled for August 23-25, 1990, at the Minneapolis/St. Paul Airport Hilton Hotel. There will be a reduced registration rate for faculty and staff. Educational Development Systems (405 Coffey Hall) is handling the registration (call Judy Sunvold at 5-3775) or check with Daniel Putnam or Laura McCann for information.

PEDESTRIAN CROSSING SIGNS

Three pedestrian crossing signs have been installed on Gortner Avenue on each side of the intersection of Gortner and Dudley. Phil Larsen, Head of Plant Path and Kent Crookston, Head of Agronomy would like to know what effect the signs have on this crosswalk situation.

NEW DIRECTORY

We have received a copy of a new directory, "Directory of Germplasm Collections, 3. Cereals" which will place in the Agronomy Library.

FURNITURE AVAILABLE

There is some office furniture available in the third floor hallway of Agronomy. Check with Avis if you want any of it.

NEW COURSE IN PLANT PATHOLOGY

Plant Pathology will offer a new course this fall called, "Plant Disease Diagnosis". This course will emphasize techniques for diagnosis of plant diseases and recognition of plant disorders.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Technical Specialist in Agriculture needed by ATTRA (Appropriate Technology Transfer for Rural Areas), Fayetteville, AR.
- Agronomist/Statistician for Garst Seed Company in Slater, Iowa.
- Assistant Professor, Forage Utilization-Forage Physiology, Dept. of Agronomy, Kansas State Univ., Manhattan, KS.
- USDA-ARS position in Soil Physics, Soil and Water Management Research, Kimberly, ID.
- Corn Breeding/Nursery Manager in corn breeding department of Agrigenetics Company, Fremont, IA.

JOKES

Two ships collided. One was full of red paint and the other purple paint. What happened to the sailors?

Answer: They were marooned.

If a stork delivers babies, what kind of bird doesn't?

Answer: A swallow.

The duffer teed off, and his ball traveled fifty yards and came to rest on an anthill. After several swings, the ball was still there, but the anthill was destroyed.

Said one surviving ant to another: "If we want to stay alive, we'd better get on the ball."

Rare is the person who can weigh the faults of others without putting his thumb on the scales.

—Byron J. Langstaff

Be curious always! For knowledge will not acquire you; you must acquire it.

—Sally Day

- Extension Weed Specialist E-2/Asst. Weed Scientist, Washington State University, Mount Vernon, WA.
- Internships with the City of St. Paul Division of Parks and Recreation (fall and winter). Check bulletin board.
- Asst. Director, UC/GRCP Management Office, Univ. of California, Davis, CA.
- Plant Molecular Biologist, Purdue University, Dept. of Botany and Plant Pathology, West Lafayette, IN.
- Extension Economist and Asst./Assoc. Prof., Auburn Univ., Dept. of Ag. Econ., Auburn Univ., AL.
- Rotational grazing research project coordinator, Wisconsin Rural Devl. Center, Inc., Black Earth, WI.
- Asst. Prof. - Forage Physiologist, Univ. of Idaho, Moscow, ID.
- Extension Asst. Prof. - Seed Potato Specialist, Univ. of Idaho, Moscow, ID.
- Wetland Specialist, Braun Environmental Laboratories, Mpls., MN.

Agronomy Gleanings

August 17, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

PICNIC AT ROSEMOUNT STATION

Don't forget to sign up for the picnic at the Rosemount Experiment Station on Thursday, August 23 at 6:00 p.m. Faculty, Postdocs, Staff, Visitors, Students (Grad and Undergrad) plus your families are all invited and encouraged to attend. If you have visitors bring them along to the picnic as well. We will have barbecued chicken, fresh sweet corn and homemade rootbeer. The cost is \$3.50 for adults, \$1.00 for children 6 to 10, and children under 6 free. Bring a salad, desert, or buns and your own dishes. We will have a hayride and play volleyball after the picnic. If you plan to attend sign up with Lynne in 411 Borlaug Hall or Jim Halgerson in Room 4 Crops Research by Monday, August 20.

COLLEGE OF HUMAN ECOLOGY

The name of the College of Home Economics has been changed to the College of Human Ecology. Departments within the College of Human Ecology include Design, Housing and Apparel; Family Social Science; Food Science and Nutrition; Home Economics Education; Social Work; Youth Development and Research.

PLANT BREEDING PRELIMS

Anyone planning to take the Plant Breeding prelims this fall should contact Shawn Kaeppler to discuss forming a study group.

SLOW DOWN IN THE FIELDS

Dr. Don Baker, who is in charge of the weather station out in the field on campus, asks that you please slow down when driving past the weather station on the field roads. He wants to try to reduce the dust problems which throw the equipment off. Thanks for your cooperation.

AGRO 8020, AGRONOMY SEMINAR

Graduate students who are, or will, register for AGRO 8020, Agronomy Seminar this fall or winter quarter, should attend an introductory meeting on Thursday, August 23 at 9:00 a.m. in 306 Borlaug Hall. If you can't attend this meeting please see Jeff Gunsolus (who is the chairman of the agronomy seminar committee) before August 23.

REFRIGERATOR CLEANUP

The refrigerators in 408 Agronomy and 306 Borlaug need to be cleaned. Please remove or mark any articles that you want saved before next week. Anything unmarked will be discarded. Thanks.

MOWER FOR SALE

Bolens - Model 831, 30" cut riding mower, 8 H.P., Briggs and Stratton - electric start, used 2 years - \$800 or make an offer. Contact Nat at 5-9760.

KEY REMINDER

Attention Supervisors (faculty and civil service): Remember if you have temporary employees (undergraduate students or temporary civil service) in your labs you must sign a permission slip for them to get keys from the main office. If you want a supply of permission slips check with Lynne.

Also, when employees leave (graduate students, undergraduates, visiting faculty, civil service, postdocs, etc.) please, **please** remind them to return their keys to the main office. Many people forget. We in the main office do not have the opportunity to see these people before they leave, whereas you do. Thank you.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Senior Officer, Plant Genetics Resources, Food and Ag. Organization of the United Nations, Rome, Italy.
- Extension Specialist - New Mexico Crop Improvement Association and Cotton Association, Las Cruces, NM.

MINNESOTA STATE FAIR

The parking lot at the Minnesota State Fairgrounds closes for the duration of the fair at 4:30 p.m. on Friday, August 17 and will reopen on September 7. The fairgrounds closes to through traffic at 8:00 a.m. on Saturday, August 18 and will be open again September 4. The Minnesota State Fair starts Thursday, August 23 and lasts until September 3.

OPEN HOUSE AT STOREHOUSE

The University Storehouse will host its 4th Annual Open House on September 12 and 13 from 10 a.m. to 4 p.m., at 2901 Talmage Avenue S.E. The theme this year is "Don't waste our 'U', Reduce, Recycle, and Reuse." Come meet the staff, visit 40+ scientific and general supply vendors and enjoy free food. They will also have door prizes. Mark your calendar!

RETIREMENT PARTY

There will be a retirement party for Virginia Bickell, from the St. Paul Campus Post Office, on Friday, August 24 from 10:00 a.m. to 3:00 p.m. at the post office.

A PAIR OF Martians landed on a country road on Earth in the middle of the night. "Where are we?" one asked.

"I think we're in a cemetery," his companion answered. "Look at the gravestone over there—that man lived to be 108."

"What was his name?"

"Miles from Omaha."

—Louis Phillips, *My Owl* (Viking Kestrel)

OUR PROFESSOR had been living up to his reputation for giving exams that ranged from impossible to you've-gotta-be-kidding. Then one day, as he handed out an important test, he announced, "This is *by far* the easiest exam I have given in my 16 years of teaching. If you have expended any effort whatsoever studying, you are guaranteed at least to pass."

Any comfort I took from his words was erased when a voice from the back of the room piped up: "That's what you said *last year*."

—Contributed by Steve Pardo

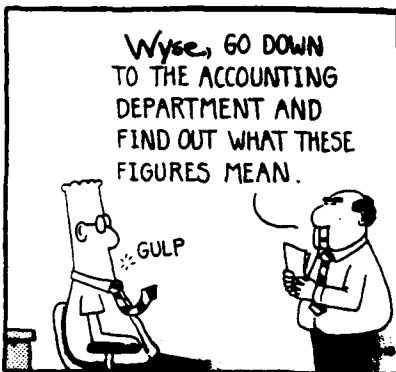
MY HUSBAND took two Graduate Record Exams on the same day and came home exhausted from hours of answering multiple-choice questions. He collapsed on the sofa. My mother came to inform him that dinner was ready and asked if he would prefer water, lemonade or milk with his meal. He paused for a moment and then replied, "I'll take 'c,' the milk."

—Contributed by Jean Colbert

WE WERE ALL TIRED after a difficult faculty meeting. The dean chairing it complained, "Have you noticed all these gray hairs I've been getting? Do you realize that when I took this job four years ago, I didn't have a single one?"

"That's no problem," consoled another professor who was virtually bald. "Just do what I do. Whenever you notice a gray hair, yank it out."

—Contributed by J. R. Nicholl



Judy

Marilyn

Agronomy Gleanings

August 24, 1990

*Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota*

PH.D. FINAL EXAM

Lori Marshall will defend her Ph.D. thesis on Wednesday, August 29, at 2 p.m. in 306 Borlaug Hall, "Characterization of corn lines tolerant to herbicides that inhibit acetyl-CoA carboxylase."

CHILD CARE REFERRAL SERVICE

The U of M has contracted with the Minnesota Child Care Resource and Referral Network to help University students, staff, and faculty find child care. The Network has listings of current openings in licensed family child care homes, group child care homes, child care centers, preschool programs, drop-in programs, programs for school age children, sick child care services, and agencies which arrange for in-home care. After a telephone interview, parents are sent a customized list of openings for the type of care requested in the area requested, a handbook about how to choose a provider, and information about financial assistance. This service is free to University families earning less than \$45,000 annually. Families earning more will be charged \$25, which is half the referral cost. Check the bulletin board outside 411 Borlaug Hall for a list of telephone numbers to call for more information.

JOBS: SUSTAINABLE AGRICULTURE

I am aware of a number of available positions working in the area of Sustainable Agriculture. These would be with organizations such as Land Stewardship Project, American Farmland Trust, ATTRA, Kerr Center for Sustainable Agriculture and others. Interested students should see Ken McNamara.

NEW IN LIBRARY

Victor Nunez has donated the following book to the department library: "The Variety Colombia: A variety of coffee with resistance to rust (*Hemileia vastatrix* Berk. and Br.), German Moreno-Ruiz and Jaime Castillo-Zapata.

ELECTRICITY IN CROPS SERVICE

The electricity will be turned off at 7:00 a.m. on Thursday, August 30th in the Crops Service Building. This will affect all the labs and work rooms on the north side of the building, as well as the growth chambers, fans, and outlets in the threshing room. Some of the circuits may be back on by noon, and the rest will be on again by 4:00 p.m. If you have any questions call Tom Warnke at 625-3153.

OPEN HOUSE AT STOREHOUSE

The University Storehouse will host its 4th Annual Open House on September 12 and 13 from 10 a.m. to 4 p.m., at 2901 Talmage Avenue S.E. The theme this year is "Don't waste our 'U', Reduce, Recycle, and Reuse." Come meet the staff, visit 40+ scientific and general supply vendors and enjoy free food. They will also have door prizes. Mark your calendar!

NEW POST DOC OFFICE

We are converting Room 128 Borlaug Hall (one of the writing rooms) to an office for post docs.

MASTER OF AG. SEMINAR

Bill Stoneman will present a seminar on his Master of Agriculture integrated paper on "Dicyandiamid, Research to Market", Tuesday, August 28th, 3-5 p.m. in 306 Borlaug Hall.

SPECIAL SEMINAR

Effect of Environment on Development in Barley, Dr. Roger Boyd, Western Australia University, Perth Australia, Tuesday, August 28th, 9:30 a.m. in 306 Borlaug Hall.

STYROFOAM DISPOSAL PROBLEMS

Before disposing of styrofoam packing material please contain it in either a bag or a box. Garbage removal personnel are having problems emptying containers with loose materials.

ACCESS TO CAMPUS DURING FAIR

During the State Fair, Aug 23-Sep 3, access to the campus will be restricted from 5:30 p.m. to 7:00 a.m. All entrances will be locked during these times and on weekends and holidays. A police officer will be at Folwell and Cleveland and will admit staff and students to the campus during off hours if they can show a valid I.D. Buford Avenue (the street in front of the Student Center) will continue to serve as the EXIT from campus.

OFFICE/LAB EQUIPMENT AVAILABLE

There is some office and lab equipment available on the 1st and 3rd floors of the Agronomy Building in the hallway. If you would like something check with Avis Kunkel in 411 Borlaug Hall.

GROWTH CHAMBER USERS

Attention Borlaug Hall Growth Chamber Users: It has been brought to our attention that the growth chamber potting area in Borlaug Hall has not been maintained by the users. Everyone using this area is asked to clean up their mess as soon as they are finished so others can work there without first having to clean the area. Violators will be prosecuted.

Growth Chamber Committee

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall or check with Lynne in 411 Borlaug Hall.

- Minor Use Pesticide Development Specialist, Univ. of Idaho, Dept. of Plant, Soil and Entom. Sciences, Moscow, ID.
- Asst. County Agent, Alabama Cooperative Extension Service, Auburn Univ., AL.
- Extension Weed Specialist, Asst. Weed Scientist, Washington State Univ., Mount Vernon, WA.
- Ag. Agent, Rusk County, Univ. of Wisconsin, Cooperative Extension, Madison, WI.
- Asst. Prof., Weed Scientist, Oregon State Univ., Pendleton, OR.
- Soybean Breeder at South Dakota State Univ., Dept. of Plant Science, Brookings, SD.
- Head, Rice Genetic Resources Center, Intl. Rice Res. Institute, Manila, Philippines.

STORY FROM DAVID SPARROW

St. Peter greeting an old couple at the pearly gates inquired as to what they would like to do whilst in heave. The fellow asked whether he could play golf. "Oh yes," replied St. Peter, "We have over a hundred courses at every standard, in perfect condition, all without entry or playing fees that you can use whenever you like. The fellow, suitably impressed, turned to his wife, "Woman, I would have been here ten years earlier if it hadn't been for you and your damned oat bran!"

Agronomy Gleanings

August 31, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

LORI SUCCESSFUL

Congratulations to Lori Marshall, who successfully defended her Ph.D. thesis on Wednesday, August 29.

LABOR DAY HOLIDAY

The University of Minnesota will be closed on Monday, September 3, in observance of the Labor Day holiday. Have a good and safe weekend.

FAREWELL COFFEE FOR SUE

The Social Committee has scheduled a farewell coffee for Sue Nielsen for Tuesday, September 4 at 10:00 a.m. in 306 Borlaug Hall.

MISSING JOURNAL

The Agronomy Library is missing Plant Physiology, Vol. 89, January, 1989. If the missing journal is not found, we will be forced to bind an incomplete series for this volume. The publisher cannot provide a back issue of the missing journal. Please check to see if you have this journal. Thank you.

The Library Committee

DISSERTATION FOCUS GROUP

The University Counseling Service (302 Eddy Hall) provides a dissertation/thesis focus and support group designed to help students complete their dissertations. The group meets on Mondays, 9-10 a.m. in 303 Eddy Hall and is open to both masters and doctoral level students. Interested students are encouraged to drop in or call 624-3323 for more information.

NEW PLANT BIOLOGY COURSE

Plant Biology will offer a new course starting this fall for undergraduates, PBIO 3960 -- Research topics. The lecture, discussion and demonstration class will meet Mondays from 1:55-2:45 p.m. in 18 BioScience Center and is 1 credit. The instructor will be Irwin Rubenstein.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Research Associate, Plant and Soil Dept, Univ. of Tennessee, Knoxville, TN.
- Environmental Education Specialist in Turfgrass, Michigan State Univ., Dept. of Crop and Soil Sciences, East Lansing, MI.
- Farming Entrepreneur, Stony Brook Millstone Water Shed Association, Pennington, NJ.

Recycling tip: Bring your own bags to the grocery store. Each year approximately 38 million trees are cut to provide us with the paper bags we carry home from the supermarket.



"And what is the cookie du jour?"

**Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota**

NEW BABY

Lori and Keith Marshall had a baby girl on Sunday, September 9. They have named her Abigail Ann.

NEW STUDENT ORIENTATION

The annual orientation session for new graduate students is scheduled for Friday, September 21 from 8:15 to 11:15 a.m. in 306 Borlaug Hall. All grad students who have been in the department for less than a year are invited to attend. Faculty and "old" students are invited to join the group for coffee and cookies at 9:30 in 306 Borlaug.

PLANT BREEDING TOUR IN IOWA

Another successful plant breeding graduate student tour has been concluded. This year the tour was centered in the Ames, Iowa area. A number of former Minnesota people made presentations or met our group. In order of appearance they included: Greg Wandry, Asgrow; Wayne Hartman, AgriPro Biosciences; Michael Lee Ken Zeigler and Walter Fehr, Iowa State University Agronomy Department, Jim Swan, ISU-Leopold Center; William Kuhn, Jim Miller, Al Grunst, Bob Merrill, Debra Lee, Nancy Albertsen, Mark Albertsen, Pioneer; Leo Roth, Mike Brayton Seeds. It is impressive to observe the accomplishments of our former students. Deon Stuthman

W-4 STATE WITHHOLDING

For Minnesota Withholding purposes, an employee may claim up to - but not more than - the same number of withholding allowances he or she is allowed to claim for Federal Withholding purposes.

Effective immediately, the U of M Payroll Department will not honor the State allowances on a W-4 submitted by an employee where more allowances are claimed for State withholding than for Federal Withholding. If one is submitted where the State Withholding allowances are more than the Federal allowances, it will be treated as though the person is claiming the same for both Federal and State. If you have questions contact the Payroll Department tax area at 624-2837.

W.K. KELLOGG FELLOWSHIPS

Faculty: We have received information on the W.K. Kellogg Foundation National Fellowship Program awards for 1991. The deadline for application is December 14, 1990. See Avis for more information.

PPI FELLOWSHIPS

We have also received information from the Potash & Phosphate Institute on their fellowship program. These fellowships are for graduate students in soil and plant sciences. The fellowships are for \$2,000 for students in Agronomy, and Horticulture majoring in soil fertility, soil chemistry, crop physiology and other areas related to plant nutrition. See Avis for more information.

NSF FELLOWSHIPS

We have received information on NSF Graduate Research Fellowships for Graduate Students. See Avis for more information.

AGRONOMY DEPARTMENT PICNIC

The Annual Agronomy Department Picnic is scheduled for Saturday, September 22, 1990, at Central Park, Special Population Shelter, in Roseville. The Social Committee will prepare turkeys on the grill. Each family or individual is asked to bring one dish to share (serving about 8 people), plus your own dishes, silverware and beverages. The turkey will be served at around 4 p.m. but you may come anytime after 2 p.m. There is an excellent play area for children, tennis courts and walking trails in the park. Make your reservations with Muriel in 411 Borlaug Hall by September 19. Cost is \$4.00 for faculty, post docs, staff; \$3 for graduate students; \$1.50 for children 12-6; Children under 6 free.

THANK YOU NOTE

Dear Agronomy Department: Thanks so much for the baby gift. Ben is a healthy, beautiful baby who will wear his Minnesota sweatsuit with pride. Thanks again. Brent and Linda Sorenson

CALL FOR PAPERS

Papers are being accepted for the Agriculture, Food and Human Values Society, Third National Conference, May 8-12, 1991, at the Asilomar Conference Center near Monterrey, California. Papers should address "Varieties of Sustainability: Culture, Society and Ecology." Deadline for submission of papers/abstracts is October 1, 1990.

PESTICIDE CONFERENCE

A National Research Conference on "Pesticides in the Next Decade" will be held November 8-9, 1990, at the Hyatt Richmond in Brookfield, Virginia. The conference is sponsored by the Virginia Water Resources Center and the Virginia Polytechnic Institute and State Univ.

"U" STORES OPEN HOUSE

University Stores will host their 4th Annual Open House on Wednesday, September 12 and Thursday, September 13 from 10:00 a.m. to 4:00 p.m. at 2901 Talmage Avenue, SE.

VIDEO PROJECTOR FOR 335

A video projector is available for use in 335 Borlaug Hall. The room is too low to install the projector so it will be stored on a cart in the Plant Pathology Library. Faculty interested in using the equipment should contact Media Resources Engineering 625-0113 for training in the operation of this equipment, which includes a video projector, laser disk player and IBM PC.

FIELD DAYS THIS WEEK

The Fall Field Day at the West Central Experiment Station - Morris will be Tuesday, September 11. The Fall Field Day at the Southwest Experiment Station - Lamberton will be Wednesday, September 12. The 1990 Corn and Soybean Day at the Southern Experiment Station - Waseca, will be Thursday, September 13.

WINE & CHEESE FALL PARTY

Mark your calendar! The Fall Wine and Cheese Social Mixer for Agronomy and Plant Genetics personnel is scheduled for Friday, October 5 from 3-5 p.m. in 306 Borlaug Hall. Plan to come and meet and mingle with your fellow faculty, civil service, post docs, students.

SABBATICALS IN KENYA

We have received information about sabbatical opportunities for U.S. faculty in agriculture and related sciences in Kenya at Egerton University. Check the bulletin board outside 411 Borlaug Hall for information.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Cooperative Extension Educator - Horticulture (Asst. or Assoc. Prof.), U of Connecticut, Storrs, CT.
- Research Agronomist - wheat and oat breeding, Professional (non-tenured), Purdue Univ., Dept. of Agronomy, West Lafayette, IN.
- Instructor in Agriculture, Dickinson State Univ., Dickinson, ND.
- Senior Research Associate - Molecular Biol., Pioneer Hi-Bred Intl., Johnston, IA.
- Postdoctoral Fellow - Grass Molecular Physiology, U of Idaho, Moscow, ID.

Agronomy Gleanings

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

September 21, 1990

CONTINUE WATERING

Attention research projects: Continue to water your own greenhouse materials during the week. We will have waterers during the weekends. Tom Warnke

AGRONOMY DEPARTMENT PICNIC

Don't forget. The Annual Agronomy Department Picnic is scheduled for Saturday, September 22, 1990, at Central Park, Special Population Shelter, in Roseville. The Social Committee will prepare turkeys on the grill. Each family or individual is asked to bring one dish to share (serving about 8 people), plus your own dishes, silverware and beverages. The turkey will be served at around 4 p.m. but you may come anytime after 2 p.m. There is an excellent play area for children, tennis courts and walking trails in the park.

NEW BABY

Brad Kinkaid has a new daughter. Megan Elizabeth was born September 12 and weighed 6 lbs. 13 oz. A U of M sweatshirt was given by the Flower and Gift Committee.

THANK YOU NOTE

If Jasmine could talk she would thank the Agronomy Department for the cool Minnesota sweatshirt, but since she can't, we extend our thanks on her behalf.
Perry and Lesa Miller

SOFA FOR SALE

Green sofa bed. Excellent mattress. \$50. See Perry Miller or call 645-8759.

BOOKSTORE HOURS

Books Underground will have extended hours during the first week of Fall quarter, Sept. 24 through Sept. 27, 8 a.m. to 6:30 p.m. (Friday, 8 a.m. to 4:30 p.m.).

FREE MATERIALS IN LIBRARY

There are some miscellaneous materials on a table in the Agronomy Library. These include proceedings, abstracts, and back issues of various journals which we don't keep for more than a year. Please help yourself to whatever you would like. Those materials remaining after September 28 will be disposed of.

SEMINARS

MONDAY Plant Breeding Seminar
SEPT. 24 Do we understand somaclonal variation.
Ron Phillips, 306 Borlaug Hall at 4:00 p.m.
Plant Pathology Seminar
Pathogenesis-Related Proteins.
Timothy Clark, 365 Borlaug Hall at 3:00 p.m.
Soil Science Seminar
Potential for increased field bean production in Uganda.
Patrick Jjemba, 375 Borlaug Hall at 3:00 p.m.

BURNSIDE RECOGNIZED

Dr. Orvin Burnside received a Resolution of Appreciation from the Minnesota Seed Producers and Promotion Association in recognition of his "good and valuable service to the seed producers of Minnesota during his tenure as head of the department." Congratulations Dr. Burnside. The plaque is on display in the main office.

WARNING ABOUT COLD ROOM

The walk-in cold room on the first floor of Borlaug Hall was not working properly for several weeks during August. A number of our samples thawed. You may be interested in checking your material in this room.

Cytogenetics project

GRAD CLUB MEETING

There will be a meeting of the Grad Club on Friday, September 28 at 3:00 p.m. in 306 Borlaug Hall. All graduate students in the department are invited and encouraged to attend.

HONEY FOR SALE

Carroll Vance will take orders for honey again this year:

1 lb. - \$1.50
2 lbs. - \$2.50
5 lbs. - \$5.50

A small amount of comb honey is available for \$2.25/lb. Leave a note in Carroll Vance's mailbox if you want to order some honey.

SUNFLOWER WORKSHOP

The National Sunflower Association is accepting papers for the National Sunflower Research Workshop scheduled for Thursday, January 10, 1991 in Fargo, North Dakota. Check the bulletin board for more information.

1-800 DIRECTORY OF VENDORS

A 1-800 directory of most commonly used scientific vendors has been updated by our purchased department. If you did not pickup a copy at the recent U-Stores Openhouse, you can stop in 408 Borlaug Hall to make yourself a copy. A correction sheet to laboratory and chemical supplies in the U-Stores catalog is also available for you to copy.
Marilyn Hole

DEPARTMENTAL COMMITTEES

Attention Faculty and Staff: We are putting together the new departmental committee list for 1990-91. If you would like to volunteer for a committee or you would like to get off of a committee you are currently on see Kent Crookston or leave a note for him by September 28.

OVERHEAD MISSING

The 3M overhead projector from classroom A202 Agronomy is missing. The cart for the project is still in the room. Please return it immediately as we need it for class on Monday.

INTERNSHIPS AT LAND INSTITUTE

The Land Institute in Salina, Kansas, has internships available in sustainable agriculture. Check the bulletin board for details.

DRY RUN SESSIONS

ASA practice sessions have been set for Friday, October 12 and Monday, October 15. Check with Jeff Gunsolus or Steve Openshaw if you want to schedule a time to practice. A final schedule will be put out soon.

COMMUNITY CAMPAIGN AT U OF M

The U of M Community Campaign will hold an ice cream social and agency fair on the St. Paul Campus on Friday, September 28 from 11:30-1:00 outside on the St. Paul Student Center Terrace for St. Paul Campus faculty and staff. Agencies participating will be the Cooperating Fund, Combined Health Appeal, Open Your Heart to the Hungry and Homeless, United Arts, United Negro College Fund, and United Way.

KELLOGG FELLOWSHIPS

The W.K. Kellogg Foundation has announced the availability of fellowship awards for 1991. This program is for professional women and men in the earlier years of their careers who are interested in developing interdisciplinary and cross-cultural perspectives on contemporary human and social problems. Check the bulletin board for more information or contact Kathy Donohue in the Ag. Exp. Station (5-4211) for application forms.

DEATH

Bob Rodale, head of the Rodale Institute, was killed in a car accident in the USSR on Thursday, September 20.

ROOMMATE NEEDED FOR ASA

Anyone needing a roommate for the Agronomy Society meetings in San Antonio, please contact Paul Johnson at 4-1706 or 642-9946.

GROWTH CHAMBERS IN BORLAUG

Jeff Roessler has replaced Sue Nielsen on the Growth Chamber Committee. He is the person to contact now if you want to reserve a growth chamber in Borlaug Hall or if there are problems that need to be addressed regarding growth chamber maintenance.

The custodial service will be cleaning and waxing the floor in the growth chamber room (121A BH) next week. Please clear the floor around your chamber. Pots and other materials should be stored in the prep room. Thank you.

The Growth Chamber Committee

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Biological Technician (Plants), North Central Forest Exp. Station, St. Paul, MN. B.S. level.
- Horticulturist, Tennessee Tech. Univ., College of Ag., Cookeville, TN.
- Plant Molecular Biologist, Dept. of Plant Path., Univ. of Calif., Davis, CA.
- Asst. Prof., Soil Physics, Dept. of Plant and Soil Science, Montana State Univ. Bozeman, MT.
- Area Agronomy Specialist, Northwest District, Fargo, ND.

WEST CENTRAL FIELD DAY

Thank you to the staff from the Agronomy Department who helped with our Fall Crops and Soils Day. We had nearly 250 visitors. We can't put on a good field day without substantial help from the department. Dennis Warnes

WELCOME NEW PEOPLE

Please welcome David Johnson to the department. David will be working as a post-doc with Don Wyse. His office is 128 Borlaug Hall, phone number: 625-0210.

Also welcome Eon Seon Lee who will be working on a Ph.D. with John Gronwald.

Welcome to Kit Kesinger, a new student working on a Ph.D. in Plant Biology with Carroll Vance. His office is 303 Agronomy. He has recently moved here from California.

Also welcome to Sidney Parentoni. Sidney will be working on a Ph.D. with Ron Phillips. Sidney is from Brazil. His office is 306 Agron.

Also welcome back to Sandra Milach. Sandra has returned to our department to work on a Ph.D. in Plant Breeding. She was here earlier this year as a visitor. Sandra is also from Brazil. Her office is 303 Agronomy.

Welcome to Tom Kladar. Tom is working on a M.S. in Agronomy with Don Wyse. Tom is from Illinois. His office is 140 Borlaug Hall.

DISPLAY CASE IN STUDENT CENTER

The large display case in the Student Center across from the bookstore has a display about the Science in Agriculture major with pictures and information. Check it out.

NEW COURSE

Ag. Engineering is offering a new course, Appropriate Technology for Developing Countries (AGET 5027) Fall Quarter, 5:30-8:00 p.m., Tues. and Thurs., 307 Ag. Eng. Building.

WINE AND CHEESE GET-TOGETHER

Mark your calendars! The Wine and Cheese Get-Together is scheduled for Friday, October 5 from 3-5 p.m. in 306 Borlaug Hall. This is a good chance to get together with people you've haven't seen for the whole summer or to meet new people. Everyone in the department should try to come and socialize.

ALUMNI ADDRESSES

Faculty: If you know of any address changes for alumni of the department please give them to Lynne. We use these addresses frequently. Thank you.

- Superintendent, Northwest Indiana-Purdue Ag. Center, West Lafayette, IN.
- Research Associate/Post-Doc: Wheat Breeding and Genetics, Dept. of Crop and Soil Sciences, Michigan State Univ., East Lansing, MI.
- Asst. Prof, Agronomist-in-Charge, Kansas State Univ., Dept. of Agronomy, Manhattan, KS.
- Asst. Prof., Agronomy/Crop Science at Fort Lewis College, Durango, CO.
- Plant Physiologist, Dept. of Plant and Soil Sciences, Southern Univ., Baton Rouge, LA.
- Asst./Assoc. Prof. of Floriculture, Dept. of Ornamental Horticulture, Univ. of Tennessee, Knoxville, TN.

MW
9A9800

**Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota**

THANK YOU NOTE

Dear friends: Sometimes when Abigail is waking from a nap, she seems to be whispering - bending close, we hear her singing:

"I'm a little Gopher
short and stout
Put me in my sweatsuit
and I won't pout!"

Thank you very much for the sweatsuit for Abigail, and for the many kindnesses and good words in the time around Abigail's birth. Lori and Keith Marshall

NEW BABY

Tom and Polly Fry had a new baby boy on September 22, 1990. He weighed 8 lbs. and they have named him Nolan McCabe. A U of M sweatsuit was provided by the Flower and Gift Committee.

HELP REDUCE COPYING COSTS

Faculty: Remember as you prepare materials for class it is cheaper to send copying out to outside vendors such as Beckwith when you are making multiple copies. These vendors are usually very fast and they pick up and deliver. Check with your secretary.

CHLOROFORM AVAILABLE

Jim Halgerson has several gallons of chloroform available for anyone who can use it. He will ship it off to chemical disposal if no one asks for it soon. Give him a call at 625-8189.

DEAN OF COA INTERVIEWS

The Search Committee for the Dean of the COA and Assoc. Director of the Ag. Exp. Sta. has identified four candidates for this position. They will be on campus for interviews on the following dates.
Richard L. Jones, Head of Entomology at U of M, October 15-17.

Robert A. Kennedy, Assoc. Vice Chancellor at U of MD, October 17-19.

Eldon E. Ortman, Assoc. Director at Purdue, October 29-31.

Katherine Reichelderfer, Sr. Fellow and Director for Ag. at National Center for Food and Ag. Policy, Washington, D.C., October 31-November 2.

A schedule for the interviews and seminars along with biographical information will be forthcoming.

MISSING BOOK

Someone borrowed "Modern Methods in Plant Analysis" and the Journal of Cellular Biochemistry, Vol. 14E from Dave Somers. Please return them to him as soon as possible. Thanks.

LIQUID N₂ MOVED

Attention Lab Personnel: The liquid N₂ tank has been moved to Room 532 Borlaug Hall (flammable storage). If you need a key, see Gregg in 411 Borlaug Hall. If you empty the tank (a loud whistling noise) please, please inform Kate in 543 Borlaug Hall so a new tank can be ordered as soon as possible.

SURPLUS EQUIPMENT NEEDED

Hakima Bahri and Rachid Bouabid will join the National School of Agriculture in Morocco in teaching/research faculty positions in the Soils and Agronomy Depts. in the near future. The school is developing its research capabilities. Hakima and Rachid are seeking help in getting labs started. They are seeking donations of surplus lab equipment or books and library documents. If you have anything available leave a note in Hakima's mailbox.

CROPS AND SOILS CLUB

Faculty are invited to join the undergraduate students at a hot dog roast and bean feed on Tuesday, October 2, at 5:00 p.m. on the foyer, north of 335 Borlaug Hall. This is an introductory meeting for new students to get acquainted with the activities of the Gopher Crops and Soils Club. Faculty, please announce this event in your classes and encourage undergraduate students to attend.

COUNSELING SERVICES

University Counseling Services offers many support group counseling opportunities. Check the bulletin board for details or call them for more information at 624-3323.

HONEY FOR SALE

Carroll Vance will take orders for honey again this year:

- 1 lb. - \$1.50
- 2 lbs. - \$2.50
- 5 lbs. - \$5.50

A small amount of comb honey is available for \$2.25/lb. Leave a note in Carroll Vance's mailbox if you want to order some honey.

SEMINARS

- MONDAY**
OCT. 1 Plant Breeding
Selection for nodule N-assimilating enzyme activity alters isozyme expression in alfalfa. Mark Farnham in 306 Borlaug Hall at 4:00 p.m.
- Forest Resources
Natural and anthropogenic stress, disturbance, and resource limitation: How and how well do trees and forests respond. Peter Reich (U of WI) in 110 Green Hall at 3:00 pm
- Plant Pathology
Pisatin demethylase of nectria and its role in phytoalexin detoxification. Paul Geiser, Ph.D. student, in 365 Borlaug Hall at 3:00 p.m.
- TUESDAY**
OCT. 2 Plant Biology Colloquium
Goldenrods and beetles: Host finding and tenure in prairie communities. Prof. Patrice Morrow in 335 Borlaug Hall at 4:00 p.m.
- Our Changing World
Why Study Peace? Academics and Beyond. Meredith Sommers, in Student Center Worldspan Room at 12:00 noon.
- WEDNES**
OCT. 3 Agronomy Seminar
A grass roots approach to grassland management in Australia & New Zealand. Walt Wedin, Adjunct Prof. Emeritus, in 306 Borlaug Hall at 4:00 p.m.
- FRIDAY**
OCT. 5 MacArthur Lecture
Facing South: The pentagon and the third world in the 1990s. Michael Klare in Coffman Memorial Union Theatre at 12:20 p.m.

PHYSICAL ED IS NOW KINESIOLOGY

Starting fall quarter undergraduate and graduate degrees formerly called Physical Education will now be called Kinesiology at the U of M.

CALL FOR PAPERS

The American Society of Agricultural Engineers is now accepting proposals for papers for the National Symposium on Preferential Flow for their symposium on December 16-17, 1991 in Chicago, IL. Check the bulletin board for details.

NEW PHONE LISTS

We have just put out a new departmental phone list. If you see any errors or know of any changes please contact Lynne or Avis. Thank you.

WINE AND CHEESE GET-TOGETHER

Mark your calendars! The Wine and Cheese Get-Together is scheduled for Friday, October 5 from 3-5 p.m. in 306 Borlaug Hall. This is a good chance to get reacquainted or to meet new people. Everyone in the department is welcome.

FORD FELLOWSHIPS

We have received information about the Ford Foundation Predoctoral and Dissertation Fellowships and Postdoctoral Fellowships for minorities. I have posted this information on the bulletin board. Deadline for application is Nov. 9, 1990.

CONFERENCE ON GLOBAL WARMING

There will be a conference on global warming and state policy hosted by Governor Perpich and G. Edward Schuh on Monday, October 8 at the Humphrey Institute starting at 9:00 a.m. Cost for registration is \$25. Check the bulletin board for details.

ASA PRACTICE SESSION SCHEDULE

ASA practice sessions are scheduled for Friday, October 12 and Monday, October 15 in Room 408 Agronomy. We have posted a copy of the schedule on the bulletin boards.

TWO PH.D. FINAL EXAMS

Evaluation of three methods of inbred line development in two maize populations. Gbadebo Olaoye in 306 Borlaug Hall at 9:00 a.m. on Monday, October 1.

Germplasm development and breeding for improved biological nitrogen fixation of faba bean in Morocco. Mohammed Sadiki in 306 Borlaug Hall at 9:30 a.m. on Tuesday, October 2.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Dairy and livestock agent, Sheboygan County, Wisconsin Cooperative Extension, Madison, WI.
- Cooperative Extension Educator in Residence/Integrated Crop Management (Asst. or Assoc. Rank), Univ. of Connecticut, Storrs, CT.
- 2 Research Associate positions (Landscape ecology or nutrient cycling) Dept. of Forest Science, Oregon State Univ., Corvallis, OR.
- Asst. Director, Student Support Services, U of M, Minneapolis, MN.
- Molecular/Cell Agronomist, Dept. of Plant and Soil Science, Southern Illinois Univ. at Carbondale, IL.
- Director for James Ford Bell Museum of Natural History, U of M, Mpls, MN.
- Asst./Assoc. Prof. - Forage Crops, Louisiana State Univ., Baton Rouge, LA.
- Asst./Assoc. Prof. - Rice Genetics, Louisiana State Univ., Baton Rouge, LA.

Agronomy Gleanings

October 5, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

ROOMMATE NEEDED FOR ASA

Mohammed Sadiki is looking for a roommate for the ASA meetings in San Antonio. Please call him at 625-6228 or leave him a message in his mailbox in 411 Borlaug Hall.

PLANT BREEDING DISCUSSION

There will be a Plant Breeding Discussion Group on Monday, October 8 at 7:00 p.m. in 306 Borlaug Hall with Dr. Arnel Hallauer. This should be an interesting discussion. Plan to attend!

COMPUTER ROOM ORIENTATION

There will be an orientation session for new students/staff for an introduction to software and proper computer use. This session will be at noon on Tuesday, October 9 in the computer room (318 BH). Only eight people will be allowed in this session. Please sign up on the sheet on the main bulletin board outside 411 Borlaug Hall.

NSF-NATO POSTDOCTORAL FELLOWS

The National Science Foundation is now accepting applications for NSF-NATO postdoctoral fellowships in science and engineering for 1990-91. Deadline for applications is November 3, 1990. Check the bulletin board for details.

MORE VANDALISM ON CAMPUS

There was a fire at the Gibbs Schoolhouse (corner of Cleveland and Larpenteur) on Saturday, September 29. The damage was extensive and the building may have to be torn down. It was likely caused by arson. Also, the sprinklers were turned on again out in the fields by vandals over the weekend. Be on the lookout for unusual activities out in the fields or around the buildings and please call the St. Paul Campus police.

TELEPHONE LIST CHANGES

Please note these changes on your new phone list:

Bailey, Suzanne	5-7714	543 BH
Gonzalez, Javier	5-7005	592 BH
Hampton, Ron	5-0210	128 BH
Howle, Patrick	5-6228	542 BH
Larson, Brad	5-1965	18B CR
Jeo, Richard	5-7005	592 BH
Jung, Hans	5-8291	546 BH
Plaisance, Kate	5-7714	543 BH

Contact Lynne in 411 Borlaug Hall if you know of further changes. Thanks

EVAPORATIVE COOLING SYSTEMS

Please note: In order to prevent damage to greenhouse evaporative cooling systems, they must be winterized by Friday, October 19. Any request to leave the cooling system in operation beyond October 19 must be in writing and signed by the Department Head. Any department making this request will be responsible for any damage to the building and equipment due to frozen water lines. If you have questions call Joe Schwalich, Maintenance and Operations Supervisor at 624-7278.

DEDICATION OF GREEN HALL

A dedication ceremony for the Natural Resources Administration Building and Green Hall Remodeling will be held on Thursday, October 18 at 3:00 p.m. outdoors (weather permitting) near the NRAB on the St. Paul Campus (in 110 Green Hall if weather does not cooperate). A reception and open house will follow the dedication.

UROP PROPOSAL WORKSHOPS

The Undergraduate Research Opportunities Programs offers a stipend (up to \$750) and/or an expense allowance (up to \$250) to undergraduates for research, scholarly, or creative projects undertaken in partnership with a faculty member. Staff from the Office of Education Development Programs are offering proposal writing workshops, October 9, 10 and 11. Deadline for application is Monday, November 5. Check the bulletin board for details.

RECEPTION FOR VERN RUTTAN

There will be a reception honoring Professor Vernon W. Ruttan and marking his recent election to the National Academy of Sciences on Friday, October 19 in the Worldspan Room of the St. Paul Student Center at 2:30 p.m. He is the first agricultural economist to be so honored. President Hasselmo is planning to attend this reception and offer some brief remarks.

GLOBAL WARMING FORUM

Students in the College of Agriculture are invited to attend the Global Warming Seminar Forum, "Global Warming and State Policy: A Minnesota Initiative" on Monday, October 8, 9 am-4 pm in Cowles Auditorium at the Humphrey Institute. The College of Agriculture will cover the \$10 student registration fee which includes morning refreshments, conference materials and lunch. Call Gloria McLenighan at 378-0681 and tell her that you are a student in the COA.

SEMINARS

**MONDAY
OCT. 8**

Plant Breeding
Population improvement in
maize breeding.
Arnel Hallauer, Iowa State
University, in 306 Borlaug
Hall at 4:00 p.m.

Weed Science Discussion
Perennial Polyculture?
Rob DeHaan in 306
Borlaug Hall at noon.

Soil Science
Are we headed to a global
disaster?
Craig Schrader, in 375
Borlaug Hall at 3:00 p.m.

Forest Resources
Thomas Hinckley, Univ. of
Washington, in 110 Green
Hall at 3:00 p.m.

**TUESDAY
OCT. 9**

St. Paul Forum
Theological foundations for
an agricultural ethic.
Dr. C. Dean Freudenberger,
Agronomist and ethicist
theologian from Luther
Northwestern Theological
Seminary, in 202 Student
Center at noon.

Entomology Seminar
Dispersal of Trichogramma.
David Andow, in 490
Hodson Hall at 3:00 p.m.

Plant Biology Seminar
Calmodulin and wound-
healing in giant green algal
cells.

Dr. Russell H. Goddard,
in 335 Borlaug at 4:00 p.m.

Our Changing World
Women and Hunger: A
Global Problem.
Rachel Johnson, UNICEF,
in Worldspan Room of
Student Center at noon.

**WEDNES.
OCT. 10**

Elections 90
The 1990 Elections in
Perspective.
Charles Backstrom, Prof. of
Political Science, in 110
Student Center at noon.

Agronomy Seminar
Potential role of the Dept.
of Agronomy in a changing
world.
Delane Welsch in 306
Borlaug Hall at 4:00 p.m.

POSITION ANNOUNCEMENTS

Complete copies of all position
announcements can be found on the
bulletin board outside 411 Borlaug Hall.
- Asst. or Assoc. Prof. in plant molecular
biology, Plant Gene Expression, Univ. of
Nebraska-Lincoln, NE.

FULBRIGHT SCHOLAR WORKSHOP

There will be a workshop to provide
background information on the Fulbright
program, as well as suggestions for
developing a competitive application on
Thursday, October 18 from 2-4:30 p.m. in
Mall View Room, Campus Club, Coffman
Union. Make reservations by October 10.

SURPLUS EQUIPMENT NEEDED

Hakima Bahri and Rachid Bouabid will
join the National School of Agriculture in
Morocco in teaching/research faculty
positions in the Soils and Agronomy
Depts. in the near future. The school is
developing its research capabilities.
Hakima and Rachid are seeking help in
getting labs started. They are seeking
donations of surplus lab equipment or
books and library documents. If you
have anything available leave a note in
Hakima's mailbox or Kent Crookston's
mailbox. International Ag. programs will
help pay the shipping costs.

DEAN OF COA INTERVIEWS

The seminar schedule for the Dean of the
COA and Assoc. Director of the Ag. Exp.
Sta. will be as follows:

Richard L. Jones, Head of Entomology
at U of M, October 15, 3-4:30 Student
Center Theater.

Robert A. Kennedy, Assoc. Vice
Chancellor at U of MD, October 17, 3-
4:30 Student Center Theater.

Eldon E. Ortman, Assoc. Director at
Purdue, October 29, 3-4:30 Student
Center Theater.

Katherine Reichelderfer, Sr. Fellow and
Director for Ag. at National Center for
Food and Ag. Policy, Washington, D.C.,
October 31, 3-4:30 Student Center
Theater. Receptions follow the seminars
in the Worldspan Room.

CONFERENCE ON GLOBAL WARMING

There will be a conference on global
warming and state policy hosted by
Governor Perpich and G. Edward Schuh
on Monday, October 8 at the Humphrey
Institute starting at 9:00 a.m. Cost for
registration is \$25. Check the bulletin
board for details.

ASA PRACTICE SESSION SCHEDULE

ASA practice sessions are scheduled for
Friday, October 12 and Monday, October
15 in Room 408 Agronomy. We have
posted several copies of the schedule on
the bulletin boards.

1991 OECD FELLOWSHIPS

The OECD Research Project will award
fellowship in 1991 to scientists willing to
carry out research abroad in one of the
participating countries on the topic:
"Modification of soil/microbe interactions
to reduce inputs into farming systems."
Deadline for application is December 15.
Check the bulletin board for more details.

STAKMAN AWARD CEREMONY

Dr. Thor Kommedahl has been selected
to receive the E.C. Stakman Award for
1990 in Plant Pathology. The ceremony
will be held Tuesday, November 6 at 4:00
p.m. Location will be announced later.

PEACE CORPS RECRUITING

A representative of the Peace Corps will
be at the Student Center on October 16,
17, and 18 from 9 am to 4:30 pm.
Video/seminars will be presented in 110
Student Center at noon on October 16
and 18 and at 2:00 pm on October 17.

THANK YOU NOTE

Meghan Kinkaid, Debra Bockus, and
Brad Kincaid would like to give a big
thank you for the very nice Minnesota
Gopher sweatshirt outfit. Thank you.

Agronomy Gleanings

October 19, 1990

Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota

DEATH

Mrs. Delores Burnside died on Friday, October 19 at 12:45 p.m. at University Hospital. Visitation will be Monday, October 22 from 4-7 p.m. at Messiah Lutheran followed by the funeral service from 7-8 p.m. Internment will be Tuesday, October 23 at Vergas, Minnesota. Memorial may be sent to the American Cancer Society or the Messiah PreSchool.

PLANE TICKET SWAP DESIRED

Have return flight from San Antonio ASA meeting on Wednesday, October 24 (5 p.m., Northwest)

Need flight on Thursday, October 25, after 10 a.m. Please call Lori Marshall 698-3027 or leave a note in her mailbox in 411 Borlaug Hall.

NEW BABY

Mike Davis and wife, Laurie, had a baby boy on October 6, 1990. He weighed 9 lbs. and they have named him Sean Michael. A U of M sweatshirt was provided by the Flower and Gift Committee.

THANK YOU NOTE

Polly and I thank you all for joining us in celebrating the birth of our son. Nolan's glad that the St. Paul Gym is finally open so that he can use his new U of M sweatshirt. Tom and Polly Fry

MISSING SOYBEAN SAMPLES

I am missing 52 samples of soybeans that were in paper bags labeled with 3 digit plot numbers from 101-164 and 401-464. They were in the alfalfa dryers on top of the hill at Rosemount. It was one shelf's worth in dryer 4 or 5. If anyone has accidentally unloaded those dryers would you contact Tom Fry at 625-7762 (lab) or leave a note in his mailbox in 411 Borlaug Hall. Thanks.

DOS MANUAL MISSING

Please return the DOS manual to the computer room. Manuals are not to be removed from the computer room. Thanks.

Computer Room Committee

UPDATE PLANT BREEDING RECORDS

Plant Breeding Faculty: Please update your student's progress reports in the main office. The Plant Breeding Committee will review them soon.

MISSING HOTPLATE

A hotplate/stirrer is missing from the Agronomy Teaching Lab. Would the individual who borrowed it, please return it as soon as possible. Thank you.

MISSING FILTERS

We are missing an order. A box of Acrodisc filters and 500 gm of NgCl was delivered on 9/15/90 from the Storehouse. If anyone has seen this box please notify Scott or Keith at 5-7714. Thanks.

GRAD STUDENT FALL ACTIVITY

All departmental graduate students are encouraged to attend the annual fall social activity sponsored by the Grad Club on Tuesday evening, October 30. Brent Delzer has graciously offered to host the activity at his farmstead near Chaska. We plan to have a cookout and hayride. Family and friends are welcome. Plan to arrive by 5:30 p.m. Mark your calendar and hope for good weather! More information later. Questions? Contact Paul Peterson.

DEDICATION OF GRAIN CRADLE

Mark your calendars now for a dedication ceremony of a new display featuring an antique grain cradle contributed to the department by Dr. Rodney Briggs. This event is scheduled for the afternoon of November 2, 2:30 p.m., in 306 Borlaug Hall. Dr. Briggs will present a brief history of this cradle as it relates to his family.

RECYCLE - RECYCLE - RECYCLE

Everyone in the department: Please make a very strong effort to recycle, especially aluminum pop cans. We have received a letter from a concerned individual indicating that many pop cans are being discarded in the garbage by people from our department. There is an aluminum recycling can on the third floor of Borlaug Hall at the main entrance, or you can bring your cans to Teresa Schoeder in 209 Borlaug or to Lynne Medgaarden in 411 Borlaug Hall. Remember to recycle! Thank you.

AGRONOMY GREENHOUSE USERS

There will be a meeting on Wednesday, October 31st at 1:00 p.m. in Room 306 Borlaug Hall for project leaders and civil service personnel who are using departmental greenhouse space. This includes the USDA Weeds and Teaching Greenhouses. We will be discussing our current greenhouse situation and dealing with problems or questions you may have about its operation. Tom Warnke

WINTER STORAGE OF EQUIPMENT

The judging arena that we have been renting from the Minnesota State Fairgrounds for winter storage of our vehicles and plot equipment is not going to be available this year because of problems with insurance. Indoor storage for the winter months on this campus is very limited, so if you have access to storage at any other location you probably should use it. Some of our plot equipment, and most of the project vehicles will be left outdoors this winter unless something changes. I am looking for alternatives, and ideas if you have any. Tom Warnke

FAREWELL FOR CLIFF WILCOX

Friends of Clifford Wilcox are invited to join in a farewell party for him on Friday, November 9, 1990, from 3:30-5:00 p.m. in the Cherrywood Room of the St. Paul Student Center. Cliff has been the superintendent at the Rosemount Experiment Station for 25 years. You are also encouraged to write a letter to Cliff which will be bound in a book of letters as a reminder of the activities and events that have filled his career at the U of M. Send your letters (8 1/2 x 11) to Karen Schuller at the Rosemount Experiment Station by October 31.

NYVALL RESIGNS

Dr. Robert Nyvall will resign from his position as Superintendent of the North Central Experiment Station at Grand Rapids effective April 1, 1991. Dr. Nyvall will remain at the U of M as a member of the faculty at the North Central Exp. Station.

LIVING STOCK COLLECTIONS

The National Science Foundation is now accepting proposals for support for operation of outstanding living organisms stock centers, important for the preservation of essential scientific resources at the national or international level (these collections might include whole organisms as well as biologically active resources such as DNA probes, antibodies, plasmids, etc). Development of electronic databases and use of databases is also encouraged. Proposals are accepted at any time. Check with Avis in 411 Borlaug Hall for details.

SPECIAL FORUM FOR WOMEN

The Commission on Women of the U of M will hold a forum entitled "Women on the move: Decisions at the Crossroads" on Tuesday, October 23, 1990, 2:30-4:30 p.m., in 17 Appleby Hall. The forum is a vehicle for women students to explore career and educational goals.

SELF HYPNOSIS WORKSHOP

There will be a self-hypnosis workshop - 6 sessions presented by the U of M Counseling Service starting October 23 in the St. Paul Student Center. Pre-register by calling 625-3115 or stopping into 190 Coffey Hall.

FACULTY ASSEMBLY MEETINGS

Faculty: Mark you calendars for the fall, winter and spring faculty assembly meetings.

Fall: Wednesday, December 5 in 335 Borlaug Hall, 10-noon (coffee hour at 9:00 a.m.). Get agenda items in by November 23.

Winter: Wednesday, March 13 in 335 Borlaug Hall, 10-noon (coffee hour at 9:00 a.m.).

Spring: Wednesday, June 5 in 335 Borlaug Hall, 10-noon (coffee hour at 9:00 a.m.).

MILLER'S SEMINAR RESCHEDULED

The seminar by Gerald Miller, "Changing Role of the Minnesota Extension Service in Agriculture" has been rescheduled to Wednesday, November 21, 4:00 p.m. in 306 Borlaug Hall. Dr. Miller's seminar was rescheduled due to a conflict with the Dean search.

HMONG HANDWORK SALE

There will be a display and sale of Hmong Handwork on November 2-3, starting at 10 a.m. each day at the Christ Lutheran Church, 105 W. University Ave.

DEAN OF COA INTERVIEWS

The seminar schedule for the Dean of the COA and Assoc. Director of the Ag. Exp. Sta. will be as follows:

Eldon E. Ortman, Assoc. Director at Purdue, October 29, 3-4:30 Student Center Theater.

Katherine Reichelderfer, Sr. Fellow and Director for Ag. at National Center for Food and Ag. Policy, Washington, D.C., October 31, 3-4:30 Student Center Theater. Receptions follow the seminars in the Worldspan Room.

OPEN HOUSE AT STUDENT CENTER

The St. Paul Student Center will hold an open house on Thursday, November 8 from 10 am to 3 pm. Activities will include a tour of the facilities and a look at the new computerized reservation system. Door prizes will be given away and refreshments will be served.

LEGISLATIVE ASSISTANT TO IAFHE

Richard Hemmingsen has been appointed as legislative and state relations assistant to the Vice President of IAFHE (Gene Allen). Mr. Hemmingsen has been serving in this role since October 1988 in an acting capacity.

CIVIL SERVICE LIAISON COMMITTEE

Lynn Field and Teresa Schoeder were elected as our new representatives on the departmental civil service liaison committee. This group will be meeting soon. If you have any concerns please share them with a committee member (Lynn, Teresa, Eric Ristau or Tom Warnke).

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Asst. Prof., Turfgrass, Kansas State Univ., Manhattan, KS.
- Asst./Assoc. Prof., Plant Science, Arkansas State Univ., Jonesboro, AR.
- Research Geneticist at the Cotton Production Research Unit, USDA-ARS, Florence, SC.
- Asst. Prof. in Weed Science, Univ. of Tennessee, Knoxville, TN.
- Soybean breeder in Isabela, Puerto Rico, Asgro Seed Company, Ames, IA.
- Agronomic Technical Consultant, Albion Labs, Inc., Clearfield, UT.
- Postdoc in genetic transformation of sweet potato, Tuskegee Univ., Tuskegee, AL.
- Asst./Assoc. Prof. in Turfgrass Envir. Ecology, Texas A&M Univ. Ag. Res. Ctr., El Paso, TX.
- Asst. Prof. in Weed Science, Dept. of Plant Path. and Crop Phys., Louisiana State Univ., Baton Rouge, LA.
- Asst. to the Director, Office of Equal Opportunity and Affirmative Action, U of M, Minneapolis.
- Extension Agronomist (Weed Science), Univ. of Illinois, Dept. of Agronomy, Urbana, IL.

SEMINARS

MONDAY

Oct. 22

Plant Breeding

ASA Meetings - no seminar
Forest Resources

Inventree: A community tree inventory system.

Lisa Burban, USDA Forest Service, at 3:00 p.m. in 100 Natural Res. Admin. Bldg.

Weed Science Discussion

ASA Meetings - no discussion

Ag. Engineering

Dynamic hydrology of variable source areas.

Dr. Rao Govindaraju, U of Cal.-Davis at 11:00 a.m. in 219 Ag. Eng. Bldg.

St. Paul Forum

Food Safety: Risk, Benefits and Perception.

Dr. Bill Schaefer at noon in 202 St. Paul Student Center

Plant Biology Seminar

Aspects of the physiological response of plants to ozone.

Prof. Victor C. Runeckles, Univ. of British Columbia, at 4:00 p.m. in 335 Borlaug Hall.

Agronomy Seminar

ASA meetings - no seminar

Horticulture Seminar

Perspectives in floriculture breeding.

Dr. Mark Strefeler at 4:05 p.m. in 415 Alderman Hall.

World Food Day Program

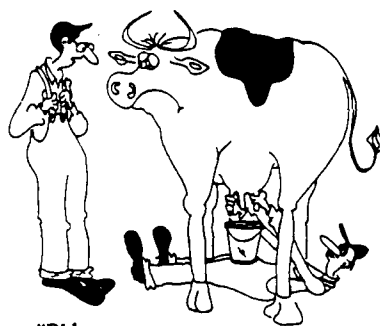
Business involvement in developing countries. Vern Freeh, Land O'Lakes, Inc., at noon in the Worldspan Room of the St. Paul Student Center.

TUESDAY

Oct. 23

WEDNES.

Oct. 24



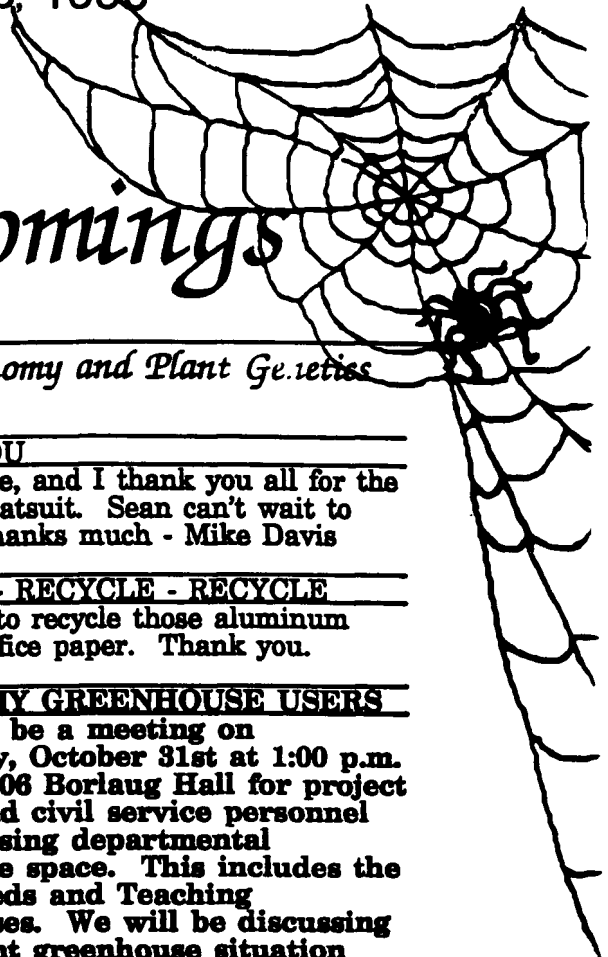
"Did you say that before you were a milker you used to work for Benny's garage?"

October 26, 1990

11/10/90



Agronomy Gloomings



University of Minnesota - Department of Agronomy and Plant Genetics

GRAD STUDENT FALL ACTIVITY

All departmental graduate students are invited to attend the annual fall social activity next Tuesday evening, October 30. We'll be enjoying a cookout and hayride at Brent Delzer's farmstead near Chaska. Food, beverages, and table service will be provided by the Grad Club. Family and friends are welcome. Those interested in carpooling should meet in front of Borlaug Hall by 4:15 p.m. If you want to get there on your own, see the directions to Brent's shown on the flyer. Plan to arrive by 5:30 p.m. Let's hope for good weather but be prepared for a crisp fall evening. Questions? Contact Paul Peterson.

EMPLOYEE BENEFITS INFORMATION

There will be an Employee Benefits Information Fair on Wednesday, October 31 in the St. Paul Student Center.

SYMPOSIUM ON FORAGES

There will be an International Symposium on Forage Cell Wall Structure and Digestibility on October 7-10, 1991 in Madison, Wisconsin. Mark your calendars.

LAB CHEMICAL SAFETY VIDEO

Lab personnel and supervisors: Mark your calendars. The safety committee has arranged to show a video on "Lab Chemicals and Your Health (Part I)" on Tuesday, November 20 at 1:00 p.m. in 306 Borlaug Hall. This film is 20-30 minutes long and will be followed by a discussion on lab safety. Encourage the people in your labs to attend.

U OF M COMMUNITY CAMPAIGN

Remember to return your U of M Community Campaign pledge cards to Avis in 411 Borlaug Hall by October 31. Return these cards whether you plan to pledge or not. To date the Agronomy department has contributed \$3050.

THANK YOU

Sean, Laurie, and I thank you all for the U of M sweatsuit. Sean can't wait to wear it. Thanks much - Mike Davis

RECYCLE - RECYCLE - RECYCLE

Remember to recycle those aluminum cans and office paper. Thank you.

AGRONOMY GREENHOUSE USERS

There will be a meeting on Wednesday, October 31st at 1:00 p.m. in Room 306 Borlaug Hall for project leaders and civil service personnel who are using departmental greenhouse space. This includes the USDA Weeds and Teaching Greenhouses. We will be discussing our current greenhouse situation and dealing with problems or questions you may have about its operation. Tom Warnke

FAREWELL FOR CLIFF WILCOX

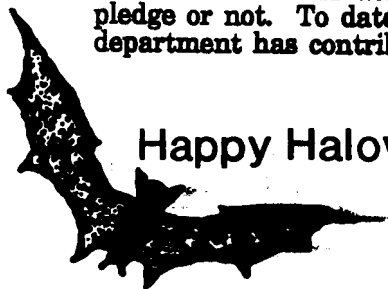
Friends of Clifford Wilcox are invited to join in a farewell party for him on Friday, November 9, 1990, from 3:30-5:00 p.m. in the Cherrywood Room of the St. Paul Student Center. Cliff has been the superintendent at the Rosemount Experiment Station for 25 years. You are also encouraged to write a letter to Cliff which will be bound in a book of letters as a reminder of the activities and events that have filled his career at the U of M. Send your letters (8 1/2 x 11) to Karen Schuller at the Rosemount Experiment Station by October 31.

DEAN OF COA INTERVIEWS

Two candidates remain to be interviewed and give seminars for the position of Dean of the College of Agriculture and Associate Director of the Ag. Exp. Station:

Eldon E. Ortman, seminar scheduled for October 29, 3-4:30 Student Center Theater.

Katherine Reichelderfer, seminar scheduled for October 31, 3-4:30 Student Center Theater. Receptions follow the seminars in the Worldspan Room. Check the bulletin board outside 411 Borlaug Hall if you would like to see the resumes of either of these candidates.



Happy Haloween

HAMM MEMORIAL LECTURE

The Hamm Lecturer Selection Committee is soliciting suggestions for speakers for the Hamm Lecture for 1991. Please submit names to Phil Larsen in Plant Pathology by December 14.

OPEN HOUSE AT STUDENT CENTER

The St. Paul Student Center will hold an open house on Thursday, November 8 from 10 am to 3 pm. Activities will include a tour of the facilities and a look at the new computerized reservation system. Door prizes will be given away and refreshments will be served.

SPECIAL VIDEOCONFERENCE

Attention Undergraduate Students: There will be a 2-hour national interactive videoconference on Tuesday, October 30 at 12 noon in the Student Center Theater. This conference will discuss "Why Graduate School in Science and Engineering?"

SEMINARS

MONDAY

Oct. 29

Plant Breeding

Selection under stress and nonstress environments. Aluzio Borem de Oliveira in 306 Borlaug Hall at 4:00 p.m.

Biological Forum

Providing leadership in an environmental decade. C. Eugene Allen in 306 Borlaug Hall at 7:00 p.m.

Forest Resources

A system of individual-tree models for the northeastern U.S.

Richard Teck, in 100 Nat. Res. Bldg. at 3:00 p.m.

Weed Science Discussion

Research at the North Central Soil Conservation Laboratory.

Frank Forcella, USDA-ARS, in 306 Borlaug Hall, noon

Soil Science Seminar

Gene transfer and stability in soil populations of rhizobia.

Brian K. Kinkle, in S415 Soil Science at 2:00 p.m.

Soil Science Seminar

Fixation of K^+ , NH_4^+ , and Li^+ in montmorillonites-similarities and differences. Dr. Blahoslav Cícel, Slovak Acad. of Science, Czechoslovakia, in 375 Borlaug Hall at 3:00 p.m.

DEDICATION OF GRAIN CRADLE

We will hold a dedication ceremony of a new display featuring an antique grain cradle contributed to the department by Dr. Rodney Briggs. This event is scheduled for the afternoon of November 2, 2:30 p.m., in 306 Borlaug Hall. Dr. Briggs will present a brief history of this cradle as it relates to his family.

HAYES LECTURE

The Hayes Committee is looking for suggestions for speakers for the Hayes Lecture in April. Please submit names to Ron Phillips.

NEW ADDRESS

Walt Wilms has a new address: 16783 Jaguar Place, Lakeville, MN 55044, Phone: (612) 898-2677.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall. - Asst. or Assoc. Prof. of Soil Chemistry, Univ. of Illinois, Dept. of Agron., Urbana, IL.

- Extension Asst. or Assoc. Prof. - Potato specialist, Univ. of Idaho, Dept. of Plant, Soil and Ento. Science, Moscow, ID.

TUESDAY

Oct. 30

Plant Biology Seminar

Genomic reorganization induced by plant tissue culture.

Ronald Phillips in 335 Borlaug Hall at 4:00 p.m.

Entomology Seminar

The division cycle in cultured mosquito cells. Anna Gerenday, in 490 Hodson Hall at 3:00 p.m.

Our Changing World

Nicaragua: Struggling with Change.

Pam Costain, Director of the Central Am. Resource Center, in the Worldspan room of the St. Paul Student Center, noon.

Agronomy Seminar

Autotoxicity in Alfalfa.

Paul Peterson in 306 Borlaug Hall at 4:00 p.m.

World Food Day Program

Panel Discussion: Ethical Issues in Agricultural Production, in the Worldspan Room at noon.

Horticulture Seminar

Communicating emotions through flowers: an exploration in new floral applications.

Dr. Anne Hanchek, and Ken Doyle, in 415 Alderman Hall at 4:05 p.m.

Sustainable Transportation

Clearing the Air. Decreasing traffic generated air pollution.

David Thornton, Minn. Pollution Control Agency, in Worldspan Room at 12:15.

WEDNES.

Oct. 31

THURS.

Nov. 1



MIW
9/26/90

**Department of Agronomy and Plant Genetics
University of Minnesota, St. Paul, Minnesota**

RECEPTION FOR ROY THOMPSON

There will be an appreciate reception for Roy Thompson, Assistant Director of the Minnesota Ag. Experiment Station, on Wednesday, November 14, 1990, in the First Floor Reception Area, Earle Brown Center, 2:30-4:30 p.m. Roy Thompson has been with the U of M for approximately 32 years and will retire December 7. You may write a letter of appreciation to Roy which will be presented to him in a book on November 14. Send letters to Peggy Samuelson, 220 Coffey Hall by November 12.

CONGRATULATIONS TO JEFF

Dr. Jeff Gunsolus has been selected as the recipient of the North Central Weed Science Society 1990 Distinguished Achievement Award in Education. This is the first time the award has been given, and it is a real tribute that Jeff won out over all the weed science educators in the 14 north central states and four provinces of Canada. Orvin Burnside

CONGRATULATIONS

Congratulations to Don Rasmusson and Neal Martin who received awards at the recent ASA meetings in San Antonio. Don Rasmusson received the Agronomic Achievement Award in Crops and Neal Martin received the Agronomic Extension Education award. Congratulations to both.

THANK YOU NOTE

Agronomy Department Personnel - Thank you for the beautiful flowers you sent to Delores' funeral. Delores had a special fondness for agronomy staff and spouses. Thank you for the many kindnesses you have shown Delores over the years.
The Burnside Family

CHAIR MISSING

Whoever removed the orange chair outside of 302 Agronomy please return it. We need it for student's waiting to register. Thank you. Undergrad Committee.

BORLAUG HALL GROWTH CHAMBERS

It has been brought to our attention that pesticides are being stored in the growth chamber area in Borlaug Hall. Pesticide storage is not permitted in this area. Pesticides that were stored in the cabinet in the growth chamber prep room have been removed. Please contact John Gronwald to reclaim them.

MUCIA PH.D. DISSERTATION GRANTS

The Midwest Consortium for International Activities (MUCIA) awards eight grants each year to doctoral candidates in member institutions for research on dissertation topics that have significance to the field of international development. The grant is for \$10,000. Students must be enrolled at a MUCIA institution, working toward a doctoral degree, and having completed all predissertation requirements, including an approved dissertation topic by March 15, 1991. The application due date is February 1, 1991. Check with Lynne in 411 Borlaug Hall for more information.

CALL FOR 1991 LISA PREPROPOSALS

The Administrative Council for the North Central Region LISA Program is accepting preproposal for the 1991 LISA program. The deadline is December 14. Check with Avis for more information.

U OF M COMMUNITY CAMPAIGN

Thank you to all who contributed time and money to the U of M Community Campaign. The total contribution from the Agronomy Department was \$4,454.

LAB CHEMICAL SAFETY VIDEO

Lab personnel and supervisors: Mark your calendars. The safety committee has arranged to show a video on "Lab Chemicals and Your Health (Part I)" on Tuesday, November 20 at 1:00 p.m. in 306 Borlaug Hall. This film is 20-30 minutes long and will be followed by a discussion on lab safety. Encourage the people in your labs to attend.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Asst./Assoc. Prof. of Horticulture - Potato Physiology, Dept. of Horticulture, NDSU, Fargo, ND.
- Seed Certification Specialist and Foundation Stocks Manager Trainee, Univ. of Arizona, Dept. of Plant Science, Tucson, AZ.
- Extension Assistant (Weed Science), Univ. of Illinois, Dept. of Agronomy, Urbana, IL.
- Asst. Director of Ag. Extension, Univ. of Missouri, Columbia, MO.
- Assoc. Dean and Director of Instruction for the College of Ag., U of M, St. Paul.
- Asst. Prof. Small Grains Breeding and Genetics, Univ. of Missouri, Dept. of Agronomy, Columbia, MO.
- Temporary Lecturer, College of Bio Sciences, U of M.
- Asst. Prof in Vegetable Physiology and Asst. Prof. in Turfgrass, New Mexico State Univ., Dept. of Agronomy and Horticulture, Las Cruces, NM.

FAREWELL FOR CLIFF WILCOX

Friends of Clifford Wilcox are invited to join in a farewell party for him on Friday, November 9, 1990, from 3:30-5:00 p.m. in the Cherrywood Room of the St. Paul Student Center. Cliff has been the superintendent at the Rosemount Experiment Station for 25 years.

GOPHER CROPS AND SOILS CLUB

The Gopher Crops and Soil Club will hold a Crops Kit Workshop on Tuesday, November 6 at 5:00 p.m. in 306 Borlaug Hall.

NEW COURSES WINTER QUARTER

Plant Biology 5970 - Directed study Herbarium Techniques, 1 credit, 3 hrs/wk, contact Dr. Anita Cholewa at 625-0215 for more details.

Forest Resources 5703 - Agroforestry: Sustainable Production and Watershed Management, 2 credits, 1250-1430 Fridays, Contact Dr. Kenneth Brooks for more details.

Soils 5605/MICRO 5611 - Microbial ecology, 3 credits, T & Th 10:15-11:30, Contact Dr. Michael Sadowsky for more details.

SUMMER STUDY IN POLAND

We have received information about a summer study program in Poland for graduate and undergraduate students to earn up to six credits which can be transferred. Check the bulletin board for information.

NEW GRAD SCHOOL BULLETINS

The 1990-92 Graduate School Bulletins are now available in 130 Coffey Hall or 309 Johnston Hall. The General Information section has been revised extensively, particularly information on admission procedures and degree requirements. All graduate students are encouraged to read this section.

IMMUNIZATION

There are 13,900 students enrolled fall quarter who will have holds on their records which will prevent them from registering for winter quarter because they have not complied with the new Minnesota immunization law. The law requires all students born after December 31, 1956, to provide proof of their immunization. Faculty please remind your students of the regulation. Boynton Health Service will sponsor several clinics at which students can get shots and complete the form. I have posted a list of these clinics on the bulletin board outside 411 Borlaug Hall.

PERSONAL COUNSELING GROUPS

University Counseling Services offers personal development groups in their St. Paul office. They have a general counseling group, men's support group, women's counseling group. Call 625-3115 for more information or contact Trudy/Tania in 190 Coffey Hall.

INFORMATION ON WORK ABROAD

Faculty: The College of Agriculture is asking for information on activities that any of the faculty are involved with in Yugoslavia, Poland, Peru, Chile or Germany. The purpose for collecting this information is to prepare country profiles. The U of M has increased activities with Eastern Europe and Pres. Hasselmo will travel to South America in January. Please submit any information to Lynne in 411 Borlaug Hall by November 14.

SEMINARS

MONDAY

Nov. 5

Plant Breeding

Evaluation of semidwarf genes in wheat. Jon Fischer in 306 Borlaug Hall at 4:00 p.m.

Soil Science Seminar

Peanut intercropping with cononut problems and prospects.

Evelyn R. Fernandez, 375 Borlaug Hall 3:00 p.m.

Plant Biology Colloquium

Molecular analysis of phase variation in English ivy, *Hedera helix* L.

Ho-Hyung Woo, 335 Borlaug Hall at 4:00 p.m.

Bio Process Technology

Automatic control of bioprocesses - strategies and benefits.

Dr. Bernhard Sonnleitner, in 239 Gortner Labs at 5:00 p.m.

E.C. Stakman Lecture

The etiology of clutter in scientific literature.

Dr. Thor Kommedahl at 4:00 p.m. in 33 McNeal Hall. Reception starts at 3:15 in the McNeal Hall Lobby.

Agronomy Seminar

Changing role of the branch stations in education and research programs.

Robert F. Nyvall, Superintendent of the NC Exp. Station, Grand Rapids, in 306 Borlaug Hall at 4:00 p.m.

Rhetoric Colloquium

The management of conflict in non-profit organizations.

Dave Schuelke in 222 Haecker Hall at 2:30 p.m.

Soil Science Seminar

Stochastic analysis of large scale transient unsaturated flow in soil.

Dr. Kahraman Unlu, Virginia Polytech, in 375 Borlaug Hall at 10:45 a.m.

Horticulture Seminar

Cold acclimation of *Rosa taxa*

Laura Minsk, in 415 Alderman at 4:05 p.m.

Forest Resources Seminar

New Perspectives Winifred B. Kessler, 2nd Floor Conference Room, 10 a.m.

Sustainable Transportation

Bicycle commuting in the Twin Cities.

Matt Welbes, MN Ext. Service Bicycle Program, Worldspan Room in Student Center at 12:15

Grass Identification

Workshop

245 BioScience from 2-4:30 p.m. Reservations are required call Dr. Anita Cholewa at 625-0215

TUESDAY

Nov. 6

WEDNES.

Nov. 7

THURS.

Nov. 8

FRIDAY

Nov. 9

Department of Agronomy and Plant Genetics, University of Minnesota

CHEMICAL STORAGE CLEANUP

Attention: Civil Service Staff and Faculty Supervisors. Cleanup is currently underway in the Seedhouse pesticide storage area to remove all pesticides that are no longer in use. Each project should label all chemicals stored in the Seedhouse that you wish to keep for future use with project name and "to keep for 1991". Place any pesticides that are no longer needed on the center table. Any pesticides not labeled or unclaimed by Tuesday, November 27 will be removed for disposal. This does not mean that you should take the chemicals out of the Seedhouse and store on your desk or in some other inappropriate place, it means that you should label any chemicals you want to keep.

CIVIL SERVICE MEETING

There will be a meeting for all Civil Service Staff in Agronomy on Wednesday, November 28, 1990, in Room 408 Agronomy at 9:30 a.m. Mark your calendars. Refreshments will be provided.

FACULTY MEETING

There is a faculty meeting scheduled for Monday, November 19 at 8:00 a.m. in 306 Borlaug Hall.

LAB CHEMICAL SAFETY VIDEO

Lab personnel and supervisors: Mark your calendars. The safety committee has arranged to show a video on "Lab Chemicals and Your Health (Part I)" on Tuesday, November 20 at 1:00 p.m. in 306 Borlaug Hall. This film is 20-30 minutes long and will be followed by a discussion on lab safety. Encourage the people in your labs to attend.

LETTERS FOR ROY THOMPSON

If you wish to write a congratulatory letter to Roy Thompson on his upcoming retirement you may still do so until November 26. Send them to Peggy Samuelson in 220 Coffey Hall. They will be bound and given to Roy at a later date.

PRACTICE OF NCWSS MEETINGS

There will be a practice session for presentations for the North Central Weed Science Society Meetings on December 3, 8:30-12:30 in 408 Agronomy.

DOC. DISSERTATION FELLOWSHIPS

The Graduate School will award up to 50 Doctoral Dissertation Fellowships for 1991-92. These awards are intended to help assure timely completion of the degree by enabling the recipients to devote full-time effort for one year to the research and writing of the dissertation. The competition is open to Ph.D. candidates who have approved programs on file at the Grad School, who have passed the written and oral prelim by May 3, and who have completed all program coursework by the end of Spring Quarter 1991. The awards are for \$11,000 plus tuition for the academic year. Nominations must be submitted to the Graduate School by May 3, 1991. Past recipients of these awards include Lori Marshall and Nat Page. Check with your DGS for more information.

TORSKE KLUBBEN FELLOWSHIPS

The Graduate School is also accepting applications for Torske Klubben Fellowships for Research/Study in Norway. These fellowships provide a stipend of \$500 per month for a minimum of three months and maximum of ten months of study or research in Norway. Check the bulletin board for more information.

NEW BABY

Congratulations to Pete and Peggy Dotray on the birth of a new son, Matthew Frank, on November 8. He weighed 7 lbs. and 15 1/2 oz. A U of M sweatshirt was provided by the Flower and Gift Fund.

NEW PERSONNEL IN COA

The College of Agriculture has two new people in the prospective student services area: Annette Day, Coordinator of Prospective Student Services and Dennis Olson, Student Personnel Worker. They will be officed in 277 Coffey Hall.

CHRISTMAS PARTY PLANS

Mark your calendars. The Department Christmas Party will be December 14 from 3:30 p.m. to 6:00 p.m. in 306 Borlaug Hall. Spouses or significant others are also invited. Come early or stay late. More details will be announced later.

CONGRATULATIONS CROPS TEAM

The University of Minnesota-Twin Cities Crops Team placed 3rd at the Kansas City American Royal Crops Contest on Tuesday, November 13. University of Wisconsin-Platteville placed 1st, and Iowa State placed 2nd. Dan Anderson was the high overall individual, and Todd Frank placed 6th overall. Team members include: Dan Anderson, Todd Frank, Peter Rupert, and Todd Vagts. The team will compete Saturday, November 17 at the Chicago Collegiate Crops Contest. Good luck to team members and Coach Vernon Cardwell.

WANTED: TICKETS TO IOWA GAME

Does anyone have tickets to the Iowa vs. Minnesota football game on November 24. Contact Debbie in Room 507 Borlaug Hall, or call 5-8107.

MACARTHUR INTERNSHIP GRANTS

The MacArthur Interdisciplinary Program on Peace and International Cooperation is now accepting applications for International Internship Grants from graduate and professional school students to undertake internships/supervised fieldwork experiences related to Third World issues. Grants will be made in amounts up to \$2,000 to help pay travel and living expenses incurred in carrying out the internship project. Application deadline is March 6, 1991. Check the bulletin board for more information.

STUDENT-STAFF DIRECTORY

New Student-Staff Directories are available. If you did not receive one for your lab or office please check with Gregg or Avis.

Recycling note: Save your old Student-Staff Directories and they will be collected for recycling when the Mpls/St. Paul White and Yellow pages are delivered sometime late January or early February. Do not throw the old books in the garbage. Thank you.

ANOTHER THEFT

Last week, one high intensity light fixture disappeared from one of the Plant Pathology greenhouses. Plant Pathology will keep greenhouses #432, 415, and 370 locked on evenings and weekends. Please make an effort to keep doors locked in the evenings and weekends. Check building doors behind you when you enter and leave any building on the weekends and evenings. Also, don't hesitate to check out unfamiliar people in any of our areas. The police have mentioned that theft is increasing on the St. Paul Campus.

SAVE PRINTER RIBBONS

Please save your old, used typewriter and/or printer ribbons for Tom Warnke. They are going to try using these ribbons as a bird control method next summer. Bring your old ribbons to 411 Borlaug or give them to Tom Warnke. Thank you.

NEW GRAD SCHOOL POLICY

The U of M Graduate School is presently making some major changes in the university registration and tuition structure. Apparently some U of M financial aid policies are in contradiction with federal standards. After implementation of the new plan (in the fall of 1991) zero-credit registration options, like "Student Status" would be eliminated. Plus, doctoral students would not be allowed to earn their 2nd thesis credits until after they have passed their preliminary oral exams. Students engaged in research before that time would account for it by registering for "Directed Studies"-type credits. This wouldn't affect thesis credits earned before Fall 1991. The university-wide Council of Graduate Students (COGS) is concerned that these changes may adversely affect some graduate students, particularly those receiving student loans or loan deferments. If you anticipate that these changes might negatively affect you in some way, please contact Dave Robinson (Agronomy) or the COGS office (626-1612) immediately.

ANOTHER NEW GS POLICY

Graduate Students remember the Graduate School now requires that you register for a class no later than the end of the second week of the quarter, starting winter quarter.

REMEMBER OUR FAX NUMBER

Please make sure you are giving out the correct FAX number for our department: 612-625-1268.

RECEPTION FOR LEONARD KUHI

There will be a reception for Leonard V. Kuhi, Sr. Vice President for Acad. Affairs and Provost on Wednesday, November 28 from 4:00-5:30 p.m. in the Foyer of McNeal Hall.

FOREIGN NATIONAL TAX TREATIES

Eligible foreign national employees must complete new tax treaty forms for calendar year 1991 as follows: December 21, 1990 for biweekly payroll, and by December 28, 1990, for Regular payroll to ensure that your wages will not be taxed. Tax money that is withheld will not be refunded through the payroll department. Tax treaties are valid for one year. See Avis for forms or instructions.

NEW HEADLIGHT LAW

Remember: The Minnesota State Legislature has passed a new headlight law that went into effect August 1, 1991. Headlights are to be on:

1. Anytime from sunset to sunrise.
2. Any time it is raining, snowing, sleeting or hailing.
3. Any other time when there is not sufficient light to render clearly discernible persons and vehicles on the highway at a distance of 500 feet. University drivers are responsible for paying any fines assessed for violations occurring while driving a University vehicle.

SEMINARS**MONDAY**

Nov. 19

Plant Breeding

Enhancing traditional breeding via the plant ideotype approach.
Donald Rasmusson in 306 Borlaug Hall at 4:00 p.m.

Weed Science Discussion

Weed ecology and interference research.
Bruce Maxwell in 408 Agronomy at noon.

Soil Science Seminar

Candidate for Soil Physics/Soil-Atmospheric Interaction Position
Evapotranspiration modeling of an arid site.
Mr. Clive Reece,
Washington State Univ., in 375 Borlaug Hall at 10:45 a.m.

Soil Science Seminar

Digital image analysis: techniques and applications in soil science.

Rachid Bouabid in 375 Borlaug Hall at 3:00 p.m.

Forest Resources Seminar

Root development of six-year-old ponderosa pine established on reclaimed mine soils.

Karen Thamarus, in 100 Natural Resources Admin. Bldg. at 3:00 p.m.

Soil Science Seminar

Soil physical and crop responses to high axle load wheel traffic and subsoil tillage.

Jane Marie Fischer Johnson, in 375 Borlaug Hall at 9:00 a.m.

Forest Resources Seminar

Measuring fertilizer response: An analysis and comparison of methods.
Eleanor McWilliams in 19 Green Hall at 2:00 p.m.

St. Paul Forum

The hidden hand: Citizens and the making of agricultural policy.

Ken Taylor, Exec. Director of the Minn. Food Association, in St. Paul Student Center #202 at noon.

Plant Biology Seminar

Guard cell response to blue light: Insights using gas exchange and patch clamp techniques.

Professor Sally Assmann, Dept. of Biology, Harvard Univ., in 335 Borlaug Hall at 4:00 p.m.

Special Invited Seminar in Agronomy

Mechanisms of plant competition for nutrients.
Dr. David Tilman in 306 Borlaug Hall at 3:00 p.m.

Agronomy Seminar

Changing role of the Minnesota Extension Service in a changing world.

Gerald R. Miller, Asst. Director-Agriculture, Minnesota Extension Service, in 306 Borlaug Hall at 4:00 p.m.

Forest Resources Seminar

Bio-monitoring with Odonata: A comparison of created and natural wetlands.

Jill Jacoby, in 100 NRAB at 3:00 p.m.

TUESDAY

Nov. 20

GRAD STUDENT COLLOQUIUM

The Graduate Students will hold colloquiums every Tuesday at noon in 306 Borlaug Hall during November and early December. Bring your lunch along. Mark your calendars:

November 20 Leon van Beuningen will discuss "Genetic divergence among North American spring wheat cultivars and evolution of performance with decade of release", and Ken McNeil will discuss "Attempts to modify cytokinin levels in developing maize kernels."

FALL QUARTER FACULTY ASSEMBLY

There will be Fall Quarter Faculty Assembly on Monday, December 5 in 335 Borlaug Hall from 10:00 to 12:00. Continental breakfast will be served from 9:30 to 10:00. Submit agenda items to Judith Parker, 277 Coffey Hall by Friday, November 23. Agenda will be distributed November 28.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Assistant County Agent, Alabama Cooperative Extension Service, Auburn University, AL.
- Executive Secretary for the Northern Plains Sustainable Agriculture Society, B.S. required, Wales, ND.
- Asst. or Assoc. Scientist, Plant Molecular Biologist, Boyce Thompson Institute, Cornell Univ., Ithaca, NY.
- Field Assistant, Nature Conservancy of the Dakotas, Sioux Falls, SD.
- Post-doctoral research associate, Dept. of Horticulture, Oregon State Univ., Corvallis, OR.
- Acting Director, UMD Information Services, Duluth, MN.
- Post-doc, Plant Molecular Biologist, Univ. of Tennessee, Knoxville, TN.
- USDA-ARS, Research Molecular Biologist, Forage and Range Research Laboratory, Logan, UT.
- Technician III, Callahan Seeds, Breckenridge, MI.
- Humane Sustainable Agriculture Program Director, Washington, DC.
- Asst. or Assoc. Prof., Scientist-in-Charge of Panhandle Research Station, Oklahoma State Univ., Goodwell, OK.
- Research Assistantship with the Integrated Pest Management-Weed Population Regulation, Dept. of Agron., Univ. of Nebraska, Lincoln, NE.

WEDNES.

Nov. 21

Agronomy Gleanings

December 7, 1990

Department of Agronomy and Plant Genetics,
University of Minnesota, St. Paul, MN 55108

HOLIDAY PARTY PLANS

The Department Holiday Party will be December 14 from 3:30 p.m. to 6:00 p.m. in 306 Borlaug Hall. Current and retired departmental personnel and a guest are invited. Punch, hot cider, and selected hors d'oeuvres will be served. Bring your favorite hors d'oeuvre, snack or holiday sweet treat to share (deliver to 306 Borlaug Hall by 2:00 p.m. on the 14th). Reservations for the party should be made with Muriel Mapes in 411 Borlaug Hall by December 12 (\$3.00/person).

COOKIE PARTY

The departmental office staff will hold a cookie open house in the main office Thursday, December 20. Stop by for holiday treats any time during the day.

FOOD SERVICE HOLIDAY ACTIVITIES

The St. Paul Campus Food Service will hold a "Scandinavian Holiday Lunch" featuring lutefisk, Swedish meatballs, lefsa, and Danish rice pudding on Wednesday, December 12, 1990, from 11:30 a.m.-1:00 p.m. in the Cherrywood Room. The Pumpkin Cafe in the Earle Brown Center will be closed from Dec. 12-Jan. 2. The Terrace Cafe will have special hours 7:00 a.m.-2:30 p.m. during the quarter break (Dec. 13-Jan 2). The Food Service will be closed weekends and on Univ. Holidays during the break period.

RESEARCH REVIEW AT MORRIS

The USDA-ARS North Central Soil Conservation Research Laboratory at Morris, Minnesota will present a review of their recent and current research, plus a preview of future research on February 27 and 28, 1991. This conference is for the benefit of their cooperators and users of their research. They will preview new research on air and water quality-related problems, as well as review research in progress on soil compaction, sustainable farming systems, plant stress, soil erosion, and weed control. Mark your calendars.

NEW BOOKSTORE HOURS

All U of M Bookstores will be open 8:30 a.m. - 5:30 p.m., Monday-Friday, beginning January 9, 1991, to serve the campus better.

HORACE T. MORSE AWARD

Colleges are now accepting nominations for the Horace T. Morse-Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education. The program provides 3-year cash awards of \$2,500 annually to each recipient and \$2,500 annually for the same 3 years to the recipient's departments. Suggestions for nominees may be made to the Morse-Alumni Nomination Committee in each college by individual students or faculty, by departments or other units of the college, or by student groups. Awards will be announced in April or May. For nomination procedures contact the college dean's office or call Academic Personnel at 624-6556.

CAR FOR SALE

1984 Ford Escort, Red, 2 doors, 4 speed, 62,000 miles, \$1900. Please leave a message in Hakima's mailbox or call home at 646-1038.

UNIDENTIFIED GRADE REPORT

Does anyone have Frieda Knobloch as a student registered for AGRO 8010, Research in Agronomy for Fall Quarter, 1990? Please contact Lynne in 411 Borlaug Hall.

FELLOWSHIPS FROM AAAS

We have posted information on the American Association for the Advancement of Science Fellowship program for scientists and engineers. These fellowships provide opportunities for postdoctoral to mid-career scientists to work in Washington, D.C. in areas of public policy as they relate to science and technology. Check the bulletin board for details.

FELLOWSHIPS FOR GRAD STUDENTS

Attention Graduate Students: We have posted information about several endowed fellowships for 1991/92 which our graduate students may be eligible for.

NEW BABY

Suzanne and Michael Bailey had a baby girl on Saturday, December 1. She weighed a little over 7 lbs. A U of M sweatshirt was provided by the Flower and Gift Committee.

THANK YOU NOTE

Peggy and I would like to thank the Department of Agronomy and Plant Genetics for the nice sweatshirt you sent to Matthew Frank. He will wear our colors with pride. His greatgrandfather (Frank) told us we now have a pitcher and a catcher. Don't worry, we'll be out-of-here before we have put together the infield. Pete and Peggy Dotray.

NEW ADDRESSES FOR ALUMNI

Faculty - Remember to give new addresses for your alumni who have moved or changed jobs, etc. to the office staff. We will need them very soon to mail out the Annual Gleanings.

MISSING SAW AND POWER DRILL

Has anyone borrowed a skillsaw and/or power drill from Don Ralston? If so please return it or let him know if you are still using it. Thanks.

RETURN SURVEYS

If you have not returned your survey from the Conflict and Change Center please do so now. Thanks.

CARS INSIDE FOR WINTER

Tom Warnke has moved the department vehicles inside the east end of Crops Research for the winter.

HOUSING NEEDED

A visiting professor is seeking housing for March 25-June 8, 1991. Contact the Dept. of Landscape Architecture at 625-8285.

NEW ADDRESS

Scientific Instrument Services, Inc. has a new address: 1027 Old York Road; Ringoes, NJ 08551-1039; phone number (908) 788-5550; fax number (908) 806-6631.

CSRS WATER QUALITY GRANTS

CSRS is now accepting applications for Water Quality Grants for FY 1991. Check with Avis in 411 Borlaug Hall for more information. Deadline for submitting proposals is January 8, 1991.

GRAD STUDENT COLLOQUIUM

The Graduate Students have scheduled a colloquium for Tuesday, December 11 at noon in 306 Borlaug Hall. Bring your lunch. Steve Plehn will discuss - Analysis of 11S protein in soybean; and Eric Jellen will discuss - ID of oat chromosomes using computer image enhancement and C-banding.

COLOR COPYING

Beckwith Copy Center can now make color copies.

BATTERY RECYCLING IN BORLAUG

The U of M Recycling Program and the Chemical Waste Program have now provided Borlaug Hall will collection containers for used batteries. They will accept all general purposes type batteries except lead acid. The containers are in the xerox room and in front of 209 Borlaug Hall. Please bring used batteries to these containers and do not throw them into the garbage.

Please continue to recycle aluminum cans, also. Thank you

SAFETY EYEWEAR PROGRAM

The Boynton Health Service has developed a safety eyewear program which allows students to purchase proper eye protection at a very reasonable price. If you have any questions contact Christine Janty at 624-2134.

STUDENT/STAFF DIRECTOR ERROR

The new student/staff directory has listed December 26 as a holiday. This is an error. The University offices will be open on December 26. The University will be closed Monday, December 24 and Tuesday, December 25 and Monday, December 31 and Tuesday, January 1, 1991.

NEW COURSE IN BIOTECHNOLOGY

Are you puzzled by the term "biotechnology"? Would you like to know more about this exciting new discipline area in the agricultural and food sciences? A new, unique course titled Biotechnology: Basic Concepts and Applications will be offered for the first time winter quarter 1991. Dave Somers from our department will be one of the instructors from five different departments in the COA. Register for the course under AGRO 1500, ANSC 1500, FSCN 1500, PLPA 1500 or SOIL 1500. For more specific information contact Dave Somers or Nevin Young at 625-2225.

DR. BURNHAM HOME

Dr. Burnham is home from the hospital. If you wish to contact him you can call and leave a message on his answering machine.

NORTHRUP KING AWARD CEREMONY

The Northrup King Outstanding Performance Award Ceremony will be today at 3:00 p.m. in 306 Borlaug Hall. This award is given annually to two individuals in the department in recognition of excellence in teaching and research and as a motivation to continue high quality teaching, research and extension activities. Each recipient receives a certificate, their name added to the plaque in 306 Borlaug Hall and a cash award of \$3,000. This award is made possible through an endowment contributed to the department by the Northrup King Company.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Temporary teaching opportunities in biology at Hamline University during spring term.
- Geneticist (Asst. Prof), Utah State Univ., Dept. of Biology, Logan, UT.
- Maize breeder with the Intl. Inst. of Tropical Ag. (IITA) in Cameroon.
- Asst. Provost and Assoc. VP for Academic Affairs, U of M, Minneapolis.
- Assoc. Director/Ag. Program Leader, Cornell Cooperative Extension, Tioga County, Owego, NY.
- Asst./Assoc. Prof. Plant Science/Agronomy, Illinois State Univ., Dept. of Agronomy, Normal, IL.
- Crops and soils agent, Clark County, Wisconsin Cooperative Extension, Neillsville, WI.
- Asst./Assoc. Prof. - Production Agronomist, Louisiana State Univ., Dept. of Agronomy, Baton Rouge, LA.
- Small Fruit Production Physiologist, Dept. of Pomology, Univ. of California, Davis, CA.
- Two positions, developmental biologist and geneticist, Univ. of North Carolina, Dept. of Biology, Chapel Hill, NC.
- Asst. or Assoc. Prof. in molecular genetics, Dept. of Agronomy, Louisiana State Univ., Baton Rouge, LA.
- Faculty position with the Slippery Rock University to teach graduate courses in sustainable agriculture and sustainable systems. Slippery Rock, PA.

COMPULSIVE LYRE.



DEATH OF ARNE CARLSON

The death of Dr. Arne E. Carlson was reported in the last issue of the Minnesotan. Dr. Carlson (B.S. 1938, M.S. 1940, and Ph.D. 1948) received his degree in our department and was the first professional agronomist at what is now the Rosemount Experiment Station. The U.S. government bought 6,500-8,000 acres at Rosemount, MN, for a smokeless powder production plant in about 1941. The DuPont Corporation constructed and operated the plant and employed about 5,000 people. World War II ended in 1945, and the government took control of the entire area. The land and buildings were given to the U of M in 1947; Agronomy research started in April 1948 on the 240-acre "hill" farm. DuPont hired Arne as an engineer agronomist for land management and recommendation of vegetative cover for construction sites on the Rosemount land. He worked at Rosemount from April 1943 until November 1943 when DuPont transferred him to a similar war-time project in Richland, WA. In November 1945 he returned to Minneapolis and served as DuPont's regional agricultural service representative. Several years later, he went to DuPont's home office in Wilmington, DE, and served in various upper management positions for the rest of his career. He was marketing director of agrichemicals when he retired in 1979.

Bob Robinson

September 1990

Ann. Psychology Ass'n
"Monitor"
magazine

By Nina Youngstrom
Monitor staff

Linda Teplin tells her graduate psychology students at Northwestern University to judge the value of their research questions using three only slightly tongue-in-cheek tests:

- The Goldilocks test: Is the research question so broad it's untenable, so narrow it's dull—or is it just right?
- The five-year test: A five-year-old should be able to understand the purpose of the project.
- The blood test: People besides your blood relatives should want to read the research results.

Contributed by Peggy Egli

MIW
9/19/86

Agronomy Gleanings

December 14, 1990

Department of Agronomy and Plant Genetics,
University of Minnesota, St. Paul, MN 55108

HOLIDAY PARTY PLANS

The Department Holiday Party will be Friday, December 14 from 3:30 p.m. to 6:00 p.m. in 306 Borlaug Hall. Current and retired departmental personnel and a guest are invited. Punch, hot cider, and selected hors d'oeuvres will be served. Bring your favorite hors d'oeuvre, snack or holiday sweet treat to share (deliver to 306 Borlaug Hall by 2:00 p.m. on the 14th). Reservations for the party should be made with Muriel Mapes in 411 Borlaug Hall (\$3.00/person).

COOKIE PARTY

The departmental office staff will hold a cookie open house in the main office Thursday, December 20. Stop by for holiday treats any time during the day.

NEW ADDRESSES FOR ALUMNI

Faculty - Remember to give new addresses for your alumni who have moved or changed jobs, etc. to Lynne. We will need them to mail out the Annual Gleanings.

INTRODUCE NEW PEOPLE TO HEAD

Faculty or Civil Service if you have a new post doc, visiting scientist or grad student in your lab remember to introduce them to the Department Head.

DEPARTMENTAL COFFEES

Mark your calendars, starting in January we will plan monthly coffees (with treats) for everyone in the department, on the second Tuesday of the month, at 9:30 a.m. in 306 Borlaug Hall. These will be informal and should offer a good chance for all of us (faculty, post docs, staff, students, visitors) to interact on a regular basis. More details will be forthcoming but mark these dates now, Jan. 8; Feb. 12; Mar. 12; Apr. 9; May 14; June 11. Thanks.

PESTICIDE STORAGE

Attention Faculty and Civil Service Staff: All pesticides that are currently being stored in the Seedhouse are going to be moved to a storage area, used by the Campus Farm and Grounds Department. (You are responsible for moving your own chemicals for your project.) We will be using this area until the storage building is completed. I would like to have this move completed by the end of December. Contact Tom Warnke for directions.

SAFETY NOTE

Neil Carlson, from Environmental Health and Safety, recommends that greenhouse bays, labs, etc., where a fluorescent lamp ballast suspected to contain PCB's has gone bad and leaked and/or smoked, should be vacated for 24 hours. Get the fixture disconnected from power by unplugging or tripping the controlling circuit breaker and get out. The first 3 hours in the area could equal chronic exposure to PCB's for 3 years! When you have a ballast which has leaked call Dick Elgaard at 624-2288 and he will order the ballast replaced by a properly protected electrician and the area cleaned with the correct solvent. If you don't, you may be allowing chronic exposure to yourself and those who work there. (Older ballasts have a capacitor which contains about 3 ounces of PCB's).

BREAK ROOM IN CROPS RESEARCH

We have identified a room in the Crops Research Building that can be used as a Civil Service break/lunch room. The room is located on the bottom floor, outside the built-in growth chambers, room 38-D. We expect to get most of the furnishings from the University Inventory Warehouse at no charge or a very minimal fee. We would like to buy a microwave oven for the room with funds that were donated to the Civil Service Staff by Liz Ressler, when she left the department. If there are any objections to our using a portion of the money in this manner please let one of the liaison committee members know (Tom Warnke, Eric Ristau, Teresa Schoeder, Lynn Field). There is \$200 in the account. We would like to hear from you by December 21. We will also be looking for a free/cheap used refrigerator and a couch to use in the room. If you know of one, let us know. Thanks.

CROPS & SOILS CONFERENCE

The Crops and Soils Planning Conference for 1991 will be January 15 and 16 in Borlaug Hall on the St. Paul Campus. More details will be forthcoming but get this date on your calendars.

NEW USDA SECRETARY

Pam Groth has joined the USDA office staff as a Clerk/Typist. Pam transferred from the National Animal Disease Center in Ames, Iowa. She is officed in 403 Agronomy. Please make her feel welcome in the department. Vicky Mackerman has also moved from 411 Borlaug to 403 Agronomy. Please note this telephone number for both Pam and Vicky: 624-3620.

SINGLE QUARTER LEAVES

Faculty who are considering a single quarter leave may want to consider an international focus to their proposed leave. Two possibilities include spending a portion or all of the quarter at the Institut Agronomique et Veterinaire Hassan II in Rabat or Agadir, Morocco; or spending a portion or all of the quarter at another third world location. Contact International Programs for more information.

GALLON JARS

The Soil Testing Lab in 135 Crops Research has 40 one-gallon glass jars to give away. Call 5-3101 if you are interested. They will be sent to Recycling after December 31, 1990.

ATTENTION NONRESIDENT ALIENS

Effective January 1, 1991, all nonresident aliens, when filling out a new W-4 form, will have to request an additional \$6.00 per pay period be withheld from Federal tax on line #5 of the W-4. Any nonresident aliens currently on the payroll, will not have to submit a new W-4 form, but the Payroll Department will withhold the appropriate amount of additional Federal tax each pay period. Those people eligible for tax treaties will not be affected while their tax treaty is in force. If you have questions contact the Payroll Tax Area at 624-2837.

CONTRACT BOOKS

Annual University-wide contract books for 1990/91 are available from Judy or Marilyn. Please pick one up if you do not already have a new one.

MACARTHUR GRANTS - OVERSEAS

The MacArthur Interdisciplinary Program on Peace and International Cooperation has announced a grants program for overseas internships starting July 1991. These grants are for graduate and professional school students to undertake internships related to Third World Issues. The awards range from \$1500 to \$2000. Deadline is March 6. Check the bulletin board for details.

CARS FOR SALE

1983 Ford Escort Wagon, 97,000 miles, very good condition, \$1,100, Contact Daniel Basigalup at 625-6298 or 644-9880.

1985 Silver Mazda GLC, 2-door, 60,000 miles, AM/FM cassette, excellent condition, \$2,500/offer. Contact Andrew Tommey 625-3707 or 488-3861.

LCMR 1993 FUNDING CYCLE

LCMR is now accepting abstracts for Natural Resource Project Ideas for the 1993 funding cycle. This process is a new technique of gathering information to improve the basis for decision making for projecting funding by LCMR members. The deadline for submitting these abstracts is February 15, 1991. Information is posted on the bulletin board and is also available from Avis.

SUMMER RESEARCH PROGRAM

Faculty: The College of Biological Sciences will again coordinate recruitment and selection of students as well as recruitment of faculty mentors for the Summer Research Program for 1991 for high school students. If you are interested in participating as a faculty mentor in this program see Lynne in 411 Borlaug Hall for a form.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- Asst. Prof., Soil Chem., Oklahoma State Univ., Stillwater, OK.
- Visiting Professorship in Science, Technology and Society, Carleton College, Northfield, MN.
- Postdoc Research Assoc., USDA, Northern Plains Area, Brookings, SD.
- Asst. Prof. of Agriculture - Agronomy/Crop Science, Fort Lewis College, Durango, CO.
- Senior Officer, Integrated Plant Nutrition Systems, FAO of the United Nations to be stationed in Rome, Italy.

SEMINARS

Monday Dec. 17	<u>Weed Science Discussion</u> Integrated Weed Management and Weed Life History Research, Orvin Burnside in 408 Agronomy at noon.
Tuesday Dec. 18	<u>Soil Science Seminar</u> Quantification of symbiotically fixed nitrogen in the soil surrounding alfalfa roots and nodules. John A. Lory, in 375 Borlaug Hall at 1:00 p.m.
	<u>Forest Resources Seminar</u> Lotic ecosystems and baseline monitoring for global change. Dr. Dale A. Burns, Idaho Nat'l. Engineering Lab - Idaho Falls, in 100 Nat. Res. Bldg. at 10:00 a.m.

Agronomy Gleanings

December 21, 1990

MIW
2/9/86

Department of Agronomy and Plant Genetics,
University of Minnesota, St. Paul, MN 55108

Have a good Christmas and New Year!

GREETINGS FROM BRUN

Bob Andersen visited Bill and Margaret Brun December 15 and 16. They send greetings to everyone and wish that people from the Department would visit them in Wilsonville, Oregon.

WHARTON WILL JOIN RHETORIC

Keith Wharton will officially join the Department of Rhetoric on January 1, 1991. His office will be 307 Haecker Hall and his phone number 624-3721.

FILM FOUND

Tom Warnke found two rolls of film in one of the departmental vehicles (under the seat). One roll is black and white print film the other is Kodachrome slide film. If you think these might be yours see Lynne in 411 Borlaug Hall.

M.S. THESIS DEFENSE

Roger Baerg will present his M.S. Thesis Seminar on Friday, December 28 at 1:00 p.m. in 306 Borlaug Hall, "Antagonism of Wild Oat Control with Diclofop by Tribenuron." Plan to attend.

SPECIAL PLANT BREEDING SEMINAR

There will be an informal Special Plant Breeding Seminar on Thursday, December 27 at 10:00 a.m. in 306 Borlaug Hall, presented by Walter R. Fehr, from Iowa State University. The title is "Breeding for Specialty Traits in Soybeans." Mark your calendars and plan to attend.

SPECIAL AGRONOMY SEMINAR

There will be a special Agronomy Seminar on Tuesday, January 8 in Room 335 Borlaug Hall at 4:00 p.m. presented by Wes Jackson, John Piper and Peter Kulakow from the Land Institute, Salina, Kansas. The title is "Applied Research Using Nature as the Standard." Plan to attend.

COMPUTER LAB IN MCNEAL

A new public microcomputer lab was opened Fall Quarter in McNeal Hall 305. This facility is available for instructional use also. The lab contains two separate computer rooms, one with IBMs and one with Macs, Epson dot matrix printers and Hewlett-Packard LaserJet III printers. The hours are M-Th, 8 am-10 pm, Fri 8 am-6 pm, Sat 10 am-6 pm and Sun 4 pm-10 pm. Call Jamil Jabr at 624-7766 for more information.

VIDEO CONFERENCE

A National Satellite Video Conference has been set up for January 4th, 1-3 p.m. in Room 155 at the Earle Brown Center to learn about the 1990 Farm Bill: Implications for Agricultural Stabilization and Conservation Service and Cooperative Extension System as it relates to the Minnesota Extension Service; Minnesota Agricultural Stabilization and Conservation Service and other agencies. Plan to attend.

FARMING SYSTEMS SYMPOSIUM

We have received a Call for Abstracts for the 11th Annual Symposium for the Association for Farming Systems Research-Extension, "Farming Systems Research and Extension in the 1990s: Critical Issues and Future Directions." The deadline for receipt of abstracts is March 15, 1991. Check the bulletin board for more information.

ENVIRONMENTAL FELLOWSHIPS

The Rockefeller Foundation has announced a program offering established environmental scientists the opportunity to take part in the multidisciplinary research programs of international agricultural research centers. The fellowship will be for a minimum of one and a maximum of two years. Check the bulletin board for more information.

THANK YOU NOTE

To all of Janita Sellner's friends in the Agronomy Department: Thank you for the beautiful flowers. Sellner Family

BECOMING A MASTER STUDENT

The Learning and Academic Skills Center in 104 Eddy Hall will offer Winter Quarter workshops and classes in Developing useful study habits, Improving reading comprehension, Managing your time, Improving memory skills, and Planning exam strategies. Check the bulletin board for more information and a schedule.

CONGRATULATIONS BRENT & TONY

Congratulations to Brent Sorenson and Tony Juan on the successful completion of their written prelim exams in Agronomy.

HOUSING NEEDED

Please notify Dr. Rasmusson if you know of any furnished housing in the area for a visiting professor and his wife from March 15 to June 15, 1991.

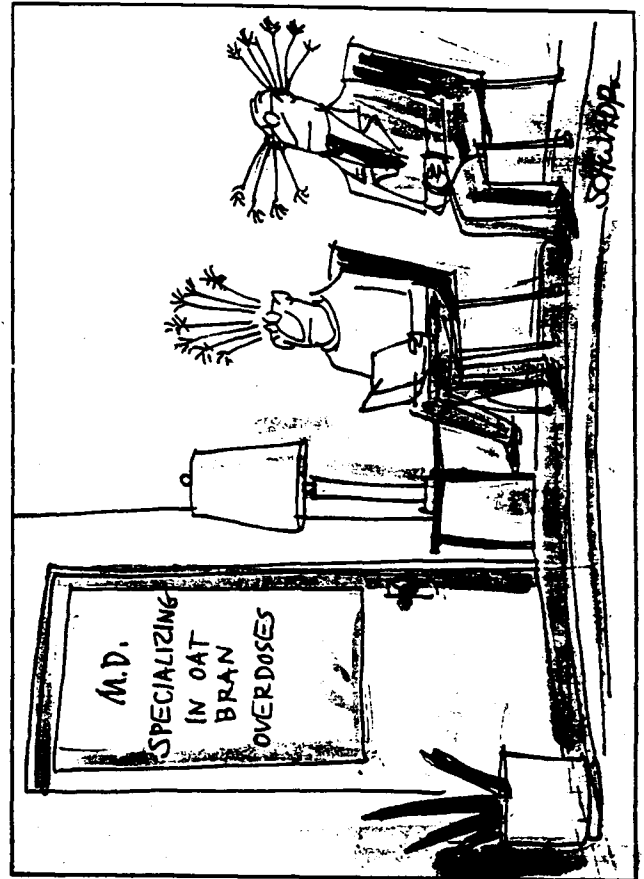
SUPPLEMENT TO DIRECTORY

Approximately 200 names were omitted from the new U of M, Student-Staff Directory. We have a supplement to the Directory listing these names available on the front counter of 411 Borlaug Hall.

POSITION ANNOUNCEMENTS

Complete copies of all position announcements can be found on the bulletin board outside 411 Borlaug Hall.

- MSEA/Regional Education Coordinator, Iowa State Univ. Extension, Ames, IA.
- Asst. or Assoc. Prof. in crop physiology and/or crop production, Texas A&M Univ., Uvalde, TX.
- Asst. Prof. of Animal Science or Agronomy, Hill Farm Research Station, Homer, LA.
- Vice Chancellor for Academic Admin., U of M, Duluth, MN.
- Instructor or Asst. Prof. of Agronomy, Central Ag. Res. Center, Moccasin, Montana.



Perspective: An ambassador to the United Nations put it this way: "Measured against such humanity-threatening issues, events unleashed by Iraq's invasion are no more than a blip on the radarscope of history." The issues: environmental degradation, drug traffic, the AIDS pandemic, the plight of the world's children and Third World debt. U.N. Observation & International Report.

Shoe / By Jeff MacNelly

