

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

January 5, 1995 *1/5/95*

*11/11/95  
8/1/96*

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

The Department of Agronomy and Plant Genetics Home Page is now available at:

<http://www.soils.umn.edu:8001/>

This page will be modified with additional links as they become available. The Computer Committee would appreciate comments/suggestions (addresses below). Faculty may want to think about the sort of information they would want relating to their specific areas.

The Computer Committee  
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whel0005@gold.tc.umn.edu

**Attention:** All Faculty, Staff and Students on Regular Payroll received the 1995 W2 Form on December 29. Please check your mailboxes for this important document.

Dr. Robert Andersen will present a workshop to help improve your scientific and technical writing ability. The dates will be January 9, 11, 16 and 18 from 4:00-5:00 p.m. in 306 Borlaug Hall. It is sponsored by the Northrup King Committee. Scientific and technical writing skills will be presented in the first three sessions and oral communication skills will be discussed in the last session. Each session is unique and builds on information presented in the previous sessions. Please sign up in 411 Borlaug Hall by today. Further information may be obtained from Liz Stahl (625-4255) or Russell Rasmussen (625-8170).

The Gopher Crops & Soils Club will be sponsoring a free spaghetti dinner on Wednesday, January 10 at 5:30 p.m. in 306 Borlaug Hall. It is a welcome back for winter quarter. All students, staff and faculty are encouraged to attend. Come and find out what were all about!!

Plant Pathology has purchased a white 15-passenger Ford van. This van is available to our department for anyone who may need a van this large. You will be charged a rate of 37 cents per mile. To make arrangements to use this van, call Dann Adair (5-3779) or Mike McClellan (4-5395).

The Down Under Team, Shape Up Challenge 1995 Winners, had lunch recently at Pizza Hut for their winning prize. It was enjoyed by all. Start thinking about forming teams for the 1996 Shape Up Challenge.

Winter Crops and Soils Day will be held at the University of Minnesota, Morris Campus on Tuesday, January 9 from 8:30 a.m. to 12:15 p.m.

Swine Day will be held on Thursday, January 11 at Edson Hall Auditorium at Morris from 9:30 a.m. to 2:45 p.m. For any questions, please contact Dianne Gjerset at 612-589-1711.

The Office of Student Activities is having its Second Annual Community Service Fair. This fair will be held on both the Minneapolis and St. Paul Campuses. The Minneapolis Fair will be held on Wednesday, January 17 at Coffman Memorial Union from 10:00 a.m. to 2:00 p.m. on the first floor. The St. Paul Fair will be held on Wednesday, January 31 from 10:00 a.m. to 2:00 p.m. at the St. Paul Student Center Ballroom.

For Sale: 1988 Chevrolet Beretta, 2 door, red, w/grey interior, 5 speed, 4 cylinder, very good condition, asking \$3100.00.

Tom Warnke (625-1228)

## Weed Science Discussion Group

Scott Reuss, Yellow and Green Foxtail Interactions with Spring Wheat (Thesis Proposal), Monday, January 8, 12:00 noon, 408 Hayes Hall.

## Noon Hour Brown Bag Discussion

Abdul Kamanzi, Use of Multiplicative Models in Analysis of G x E Interaction, Friday, January 12, 306 Borlaug Hall.

### Greenhouse Users

The following greenhouses will be sprayed with Duraguard + Azatin: Weeds 1 and 2, 370A2 and 370C1. Avid + Stirrup M will be sprayed in Teaching 4 and 5, 415A7 and 370A4.

REMEMBER: The greenhouses are closed on Saturdays for spraying. No admittance until Sunday, 8:00 a.m.

NEW PRODUCTS: If you ever notice that your plants are covered with a blue dye, that is a spray colorant called Signal. I am having the sprayers use it occasionally so they can tell what kind of job they are doing when they spray.

Hot Pepper Wax is an insect repellent which we have been using for the last couple of weeks in some of the greenhouses. Its principal active ingredient is Capsaicin derived from two varieties of hot peppers. It also contains nine other herbs. It will repel for up to 30 days and is not washed off by watering. It seems to be working.

Naturalis-O is a biological insecticide with the active ingredient Beauveria bassiana JW-1, in the class Fungi Imperfecti. The fungal spores secrete enzymes which dissolve the cuticle of the pests. Mortality is a result of water loss and nutrient loss. It is effective on adult, immature and egg stages. We haven't used this product yet, but Horticulture has given it a good review.

Stirrup M is a controlled release pheromone product which improves the performance of miticides. The vapor action of Stirrup M causes the mites to become more active, which increases the opportunity for the mites to be exposed to the miticide.

I have been finding greenhouse doors unlocked in the mornings when I make my rounds. If you unlock a door, please remember to lock it again.

Pamela Altermatt

### Special Seminar

A special informal seminar will be held by Markus Dubach, "Trials and Tribulations of Agricultural Development Work: A View from the Yurt."

Markus has been working with JCS International in Mongolia for the past two and a half years. He received his Ph.D. from the Federal Institute of Technology (ETH) in Zurich, Switzerland, and conducted postdoctoral research in the Department of Soil, Water, and Climate.

This brown bag affair will be held in 375 Borlaug Hall at 11:45 a.m., Tuesday, January 16. Markus will be happy to stay afterward for further discussion.  
Michael Russelle

### Women in Agricultural Science

The next meeting will be a free pizza lunch on Thursday, January 11 from 12:00-1:00 p.m. in 491 Borlaug Hall. All are welcome to attend. Please contact Deborah Allan at 5-3158 if you have questions.

### Seminars

January 8 Plant Breeding, John Sagars, Managing Insect Resistance to BT Corn: An Industrial Perspective, 3:30 p.m., 306 Borlaug Hall.

Plant Molecular Genetics, M. David Marks, GL2 and Other Genes that Control Trichome Development in Arabidopsis, 12:00 noon, 239 Gortner Labs.

January 9 Plant Biological Sciences Colloquium, Ian Baldwin, Escape and Defense in Nicotiana attenuata, 3:30 p.m., 335 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA, RIVERSIDE  
Assistant Professor of Biochemistry, Department of Biochemistry. Tenure-track position.  
Closing date: January 15, 1996

UNIVERSITY OF GEORGIA  
Extension Agronomist-Weed Science, Crop and Soil Sciences Department. Ph.D. with emphasis in weed science.  
Closing date: February 15, 1996

LOUISIANA STATE UNIVERSITY  
Assistant Professor, Louisiana Agricultural Experiment Station. Ph.D. in weed science, agronomy, or plant pathology.  
Closing date: February 1, 1996

UNIVERSITY OF MINNESOTA  
Retail Products Coordinator, Minneapolis Student Unions. B.A. degree in business or related field.  
Closing date: January 5, 1996

UNIVERSITY OF MISSOURI  
Assistant Professor in Weed Science, College of Agriculture, Food and Natural Resources, Tenure-track, 12-month, 70% research and 30% teaching.  
Closing date: March 15, 1996

OREGON STATE UNIVERSITY  
Faculty Research Assistant, Department of  
Horticulture. M.S. in horticulture, crop and soil  
science, or related field.

Closing date: January 26, 1996

Faculty Research Assistant, Extension Seed  
Certification, Department of Crop and Soil  
Science. B.S. degree with data entry experience.

Closing date: January 20, 1996

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•Fifty years ago we could identify two galaxies.  
Now we can identify two billion.

•In your lifetime science has learned more about  
how nature works than was learned in the five  
thousand years before you were born.

•85% of all of the scientists who have ever lived  
are alive today.

•If you were to read the entire Sunday New York  
Times, you would absorb more information in that  
one reading than was absorbed in a lifetime by  
the average person living in Jefferson's day.

Arlington Institute  
(Submitted to the  
Gleanings by Vernon Cardwell)

MW  
9/2/96

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
January 12, 1995 [1996]

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

The University of Minnesota will be closed on Monday, January 15 for Martin Luther King Day.

The next faculty meeting will be on Wednesday, January 17 from 12:00 noon to 2:00 p.m. in 306 Borlaug Hall. This meeting will include lunch with Mike Martin.

Reminder to all graduate students in agronomy and plant breeding, if you are planning to take prelims this spring, please see Lynne Medgaarden by Wednesday, January 17.

If you ordered an Agronomy sweatshirt or t-shirt, please pick them up from Lynne in 302 Hayes Hall.

The Twin Cities Regional Science Fair is an annual competition which has been taking place in the Twin Cities for over 50 years. All students in grades 6 through 12 are eligible to compete. The TCRSF is an all volunteer organization. They need judges who are willing to volunteer their time. For more information, please call David Miller at 291-8159.

For sale: Sony stereo cassette deck (single deck) with dolby noise reduction. \$60.00 (negotiable). Contact Jayanti Suresh at 5-1208.

## Holiday Schedule for 1996-97

Independence Day	July 4, 1996
Labor Day	September 2, 1996
Thanksgiving Day	November 28, 1996
Christmas Day	December 25, 1996
New Years' Day	January 1, 1997
Martin Luther King Day	January 20, 1997
Memorial Day	May 26, 1997

Floating Holidays (Twin Cities)  
November 29, 1996  
December 24, 1996  
March 28, 1997

## Greenhouse Users

Spraying – Avid + StirrupM in teaching and 415A7 – Duraguard + Azatin + Brown sugar (thrips can't resist it-we hope) in Weeds 1 and 2, 370A2, 370C1 and 5.

Soil is currently in great demand. Please let me know in advance, what your soil needs are. After next week everything should be back to normal.

Projects are responsible for weed control on bench tops and in the pots. With a few exceptions, I have most of the weeds on the floor in control. Please do your part to keep the greenhouses weed free and to avoid being fined.

\*\*Weekend Watering-Crops Services Growth Chambers Users: Please make sure you post watering instructions on your growth chambers for the entire time you are using it. If there are changes, please post the changes!! Zihao has been doing the weekend watering for quite awhile and has been doing a great job! If you have watering changes and haven't been able to contact me, his email address is lian0008@gold.tc.umn.edu. He can read his email messages from home, so you can contact him anytime.

Pamela Altermatt

## Faculty and Staff

Make-Up Training Sessions for the Prevention of Violence and Harassment will be offering six training sessions for those unable to attend previous scheduled sessions. These sessions will be held:

### Minneapolis (East Bank)

Wednesday, January 24, 9:00-11:00 a.m.  
Thursday, February 1, 9:00-11:00 a.m.  
Wednesday, February 7, 1:00-3:00 p.m.  
Thursday, February 15, 1:00-3:00 p.m.

### St. Paul

Thursday, January 25, 1:00-3:00 p.m.  
Wednesday, January 31, 9:00-11:00 a.m.

To register, call 4-7845. If you have not attended a session, please try to register for one of these. All University employees are required to attend a session. Call Jeanne for questions.



### **Seminar**

January 16 **Plant Biological Sciences**  
**Colloquium**, Meredith Blackwell,  
Diversity of Ascomycetes  
Associated with Arthropods.  
Convergence and Divergence of  
Sexual and Asexual Line, 3:30  
p.m., 335 Borlaug Hall.

### **Position Announcements**

**(Posted in notebook in 411 Borlaug Hall)**

#### **BOISE CASCADE CORPORATION**

Project Manager (four positions available). B.S.  
in applied natural resource management  
discipline, agronomy, genetics or related field.

#### **MICHAELA FARM**

Internship at Michaela Farm in Oldenburg, IN.  
Gain hands-on intern experience March through  
October, 1996, full-time. Call 812-933-0661 for  
application form.

#### **UNIVERSITY OF MINNESOTA**

Administrative Intern (two positions available),  
Minnesota Extension Service. B.S. degree and  
must be current MES staff.

Closing date: February 15, 1996

#### **USDA**

Research Geneticist in sugar beet and bean  
research. Permanent, full-time.

Closing date: February 8, 1995

# Agronomy Gleanings

MIW  
Ag 86a

Department of Agronomy and Plant Genetics

University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

January 19, 1995 [1996]

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcement

A sign-up sheet will be placed in 411 Borlaug Hall through Friday, January 26, for those of you who are interested in purchasing the 4<sup>th</sup> edition of Robert A. Day's book "How to Write and Publish a Scientific Paper." As mentioned in the Technical Communication Workshop, if we get together an order of ten or more books, we will get a discount on the book. Pricing is as follows:

Cost = \$16.95 per book

+ 10% shipping and handling

- 20% discount for an order of ten or more books

= \$14.92 approximately

If enough books are ordered, you will be contacted, and money will be collected at that time.

## Weed Science Discussion Group

Jeff Gunsolus, Assessing Weed Management from an Economic and Time Management Perspective, Monday, January 22, 12:00 noon, 408 Hayes Hall.

## Noon Hour Brown Bag Discussion

Neal Martin, Friday, January 26, 306 Borlaug Hall.

## Seminars

January 22 Plant Breeding, MCI meeting.

January 23 Plant Biological Sciences Colloquium, Tovia Kallias, Reconstitution of the Rieske Fe-S protein and site-directed mutagenesis of electron transport in Cyanobacteria, 3:30 p.m., 335 Borlaug Hall.

January 26 Loni Kemp, Farm Policy and Sustainable Agriculture, 1:30 p.m., 106 BioAgEng Building, St. Paul Campus.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF CALIFORNIA

Project Coordinator, Kearney Agricultural Center. B.A. or B.S. degree required, M.S. or Ph.D. degree preferred.

Closing date: January 25, 1996

### UNIVERSITY OF MINNESOTA

Divorce Education Project Coordinator, Human Resources. M.S. degree. Temporary, one-year appointment.

Closing date: February 2, 1996

### UNIVERSITY OF MISSOURI

Research Associate in Horticulture, Southwest Missouri Research Center. M.S. degree.

Closing date: February 16, 1996

### MONSANTO COMPANY

Corn Breeder. Ph.D. in plant breeding with at least three years experience in the hybrid corn seed industry. Contact Virginia Peschke at 314-537-7426.

### MONTANA STATE UNIVERSITY

Assistant/Associate Professor in weed science, Department of Plant, Soil and Environmental Sciences. Ph.D. in weed science, agronomy, crop science, or related discipline. Tenure-track, 12-month.

Closing date: March 25, 1996

Assistant/Associate Professor in turfgrass science, Department of Plant, Soil and Environmental Sciences. Ph.D. in horticulture, agronomy, or related science. Tenure-track, 60% teaching and 40% research.

Closing date: March 1, 1996

### ST. OLAF COLLEGE

Assistant Professor, Department of Biology. Ph.D. degree.

Closing date: March 1, 1996.

# Agronomy Gleanings

MW  
e AgSba

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
January 26, 1995 [1996]

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcement

A Grad Club meeting will be held on Friday, February 9 at 4:00 p.m. in 306 Borlaug Hall. A group picture will be taken at 3:45 p.m. TGIF during and after meeting. More details later.

The three-ring binders for those who attended the technical communications class have been placed in your mailbox. If you didn't receive a binder, there are extras by the front desk in 411 Borlaug Hall.

The Minnesota Legislature has found a new home on the World Wide Web. It will be easier than ever for the public to access the Legislature through the Internet. To connect, simply enter <http://www.leg.state.mn.us>. Access includes information about members of the Legislature, Senate, House Bills, Minnesota Statutes, daily and weekly schedules of committee activity, staff directories and much more. It is also possible to receive via email daily and weekly committee schedules. See notice posted in Waite Library for list serve addresses.

Les Everett

Thank you to all the departmental people who either participated or contributed to the Juvenile Diabetes Foundation's Walk for the Cure on January 13. Our COAFES walking team raised over \$6500, one of the better showings among participating teams. The overall event at the Mall of America raised over \$300,000.

Mark Seeley

Media distribution is a self-supporting, not for profit, department which has been in existence at the University of Minnesota since 1984. The department assists faculty and staff in disseminating the creative results of their scholarly activities. They market videotapes and computer software nationwide. They advertise through direct mail, handle orders and shipping, and pay authors royalties on sales. If interested, contact Suzanne Schoenfelt at 624-0648.

## Funding Opportunities

Graduate School Grant-in-Aid Research proposals for 96-97 are due March 4, 1996. See Jeanne for application forms and instructions.

## Safety Seminars

On Wednesday, February 14, 1996, there will be a set of safety seminars given by Dan Sieglar, Loss Prevention Manager, in 408 Hayes Hall. Personnel should sign up and go to the seminar that best fits their job functions.

These seminars will be repeated on February 22 for persons that have conflicts on February 14.

Attendance is required by all personnel to fulfill MERTKA training requirements for the seminars that apply to their positions.

This is the seminar schedule:

8:30-10:00 a.m.	Back Injury Prevention
10:15-11:00 a.m.	Animal Handling Techniques
1:00-2:00 p.m.	Safe Farm Equipment Operation
2:15-4:00 p.m.	Working in Confined Space (silos, soil bins, etc.)

A sign up sheet is in 411 Borlaug Hall at the front desk. Any questions, please call Mike McClellan at 4-5395.

## Weed Science Discussion Group

Jeff Gunsolus, Assessing Weed Management from an Economic and Time Management Perspective, Monday, January 29, 12:00 noon, 408 Hayes Hall. This is continuation of last week's discussion.

## Noon Hour Brown Bag Discussion

Emily Moelling, Thesis Proposal, Friday, February 2, 12:00 noon, 306 Borlaug Hall.

### Greenhouse Users

The following greenhouses will be sprayed with Naturalis-O: Teaching 4 and 5, 415A7, 370A2 and 6 (thistles), 370C1, Weeds 1 and 2.

Clean Up--Fines will be issued next week. Following are some recommendations to avoid fines: weeds should be pulled from pots and benches, all trash should be disposed of including sticky traps, chairs, stools, etc. should be stored in the headhouse storage area except when they are being used, all wheelbarrows etc. should be returned to the headhouse (we have had a lot of complaints because people can't find these tools) and don't forget to sweep!!

Cold Temps--Please make an effort to close the doors, especially the outside doors behind you. We had a couple of doors left slightly ajar during the big freeze--would you want your materials frosted??

Small Grains Greenhouses--Don Ralston has come up with an emergency evacuation policy and procedure. It is posted by the door to my office. Would all the users of these greenhouses please take a look at it. We want everyone to be aware of the procedure in case of fire, chemical spill or severe weather.

Pamela Altermatt

### Seminars

January 29 Thesis Defense, Master of Ag, Chuck Fick, Implications of CRP Changes for the Future of Agriculture in Minnesota (includes discussion of a case study), 1:00 p.m., 408 Hayes Hall.

Plant Breeding, Diana Miller Magarian, Will Plants Have a Role in Bioremediation?, 3:30 p.m., 306 Borlaug Hall.

Plant Biological Sciences Colloquium, Jo Handelsman, The Reform of Science Education: a case for local action and global thinking, 3:30 p.m., 33 McNeal Hall.

January 30 Plant Biological Sciences Colloquium, Jo Handelsman, Molecular and Ecological Underpinnings of Biological Control of Plant Diseases, 3:30 p.m., 335 Borlaug Hall.

### Seminars (cont.)

January 31 M.S. Thesis Defense, Paula M. Olhoft, DNA Methylation Pattern Changes Induced by Maize Tissue Culture, 9:00 a.m., 306 Borlaug Hall.

February 1 Genetics & Cell Biology, Sondra Lazarowitz, Intracellular and Intercellular Trafficking in Plants: what can we learn from virus movement?, 3:30 p.m., 335 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### ASGROW SEED COMPANY

Research Assistant for the soybean quality traits breeding project. B.S. or M.S. in agronomy or related discipline.

Closing date: February 17, 1996

#### OREGON STATE UNIVERSITY

Assistant or Associate Professor in Weed Science, Malheur Experiment Station. Full-time, tenure track, 100% research.

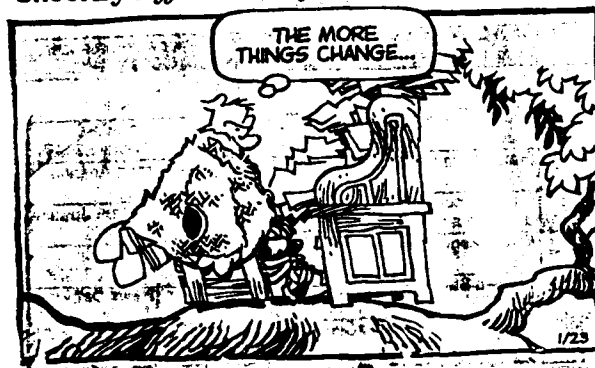
Closing date: March 22, 1996

#### ST. OLAF COLLEGE

Assistant Professor in Biology. Sabbatical replacement, semester one only. Ph.D. degree and experience in teaching.

Closing date: March 1, 1996

### Shoe: By Jeff MacNelly



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

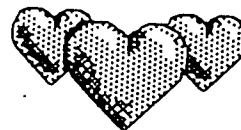
February 2, 1996

MIW  
9 Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Congratulations

Congratulations to Kendell and Ann Hellewell on their new baby boy born this morning at 10:17 a.m. He weighed 8 lbs. 1 oz. No name yet.



## Welcome

Mark Cooper will be in the Department as a visiting scientist until mid-June. Dr. Cooper is a Senior Lecturer in the Department of Agriculture, University of Queensland, Brisbane QLD, Australia. He is a quantitative geneticist-plant breeder with primary interests in wheat breeding but advises graduate students who are working on several different species. He is the principal advisor for eleven students and associate advisor of six students. He teaches courses in quantitative and population genetics and plant breeding methodology.

His chief interests in research involve comparison of breeding methods for wheat. He is one of three wheat breeders in Northern Wheat Improvement Program in Australia. Dr. Martin Fabrizius is a Postdoctoral Associate on one of Dr. Cooper's grants. He employs two other postdoctoral associates and manages an annual operating budget of approximately \$300,000 AUD.

Cooper will join Stucker in presenting subjects in Agro 8260 this quarter and will present a short course on pattern analysis applications in interpretation of Genotype X Environment Interaction. He will lead discussions on maximum likelihood estimation of variance components, spatial analysis of field experiments, and best linear unbiased prediction in plant breeding programs. Cooper and Stucker will be working on computer stimulation of selection experiments.

Cooper is accompanied by his wife Lisa and two-year old daughter Phoebe. They have an apartment in the City Gable apartments near the Eustis Street apartments.

Robert Stucker

## Announcement

A Grad Club meeting will be held on Friday, February 9 at 4:00 p.m. in 306 Borlaug Hall. A group picture will be taken at 3:45 p.m. TGIF during and after meeting.

Cu-pid, draw back your bow-w-w, and let...your ar-row go-o-o...Hey-stop singing and read this note! St. Valentine's Day is right around the corner, and the Social Committee is putting on their first Departmental Event of 1996! Please join us for a party in 306 Borlaug on that sweetheart of a day, **February 14**, at 3:00 p.m. We are hosting an **Ice Cream Social** (complete with exciting toppings) and the first ever **Brownie-Bar Bake-off**, baby!!!! Open to all comers, bake a batch of your favorite brownies, or bar-type delicacy, and enter our contest. We will have a judging panel and fun prizes. Check out Monday's posting of the Bake-off's Rules and Regulations in 411 Borlaug. The Ice Cream Social is \$1.50 at the door, and the bake-off is free--the most contestants, the more eats for all!!!!!! Please join us!



The Social Committee



The Weed Science Discussion Group will not be held on Monday because of the WSSA meetings.

The 1996-97 Minneapolis White and Yellow Pages will be delivered on Tuesday, February 13 to 411 Borlaug Hall. One new Minneapolis phone book will be left for every old Minneapolis phone book left for recycling.

Women in Agriculture Science will meet Thursday, February 8 at 12:00 noon in 491 Borlaug. We will discuss the article "Career paths for men and women in science." Copies can be found on bottom reserve shelf in the Plant Pathology Library.

## Noon Hour Brown Bag Discussion

Wayne Kennard, Progress in RFLP Map  
Construction of Wild Rice, Friday, February 9, 306 Borlaug Hall.

## Gopher Crops and Soils Club

President - Marty Kral  
Vice-President - Ryan Lee  
Treasurer - Aaron McCormack  
Recording Secretary - B.J. Patzoldt  
Corresponding Secretary - Sharon Gherity  
Crops Kit Chair - Kim Hemmesch  
Crops Kit Co-Chair - Nathan Nieber

The spaghetti dinner on January 10 was a fabulous success, and we thank everyone who was able to attend to support our kick-off activities.

### Some upcoming activities:

February 7 - Jean Underwood from COAFES will be answering questions students have about internship opportunities, careers in agriculture, applying and interviewing for jobs.

February 21 - We will be holding an agronomy quiz bowl. This will be an opportunity for students to test their crops and soils knowledge and to practice for the national quiz bowl at ASA next year. We will be in need of a few judges. If you are interested, please let me know.

Later, on March 29, we will be traveling to Purdue University for the North Central Regional ASA meetings.

Professors and TA's, please encourage the undergraduate students in your classes, and on your projects, to become involved in the undergraduate club. If you or they need more information, please contact me or Marty Kral.

Jonathan Shaver  
shaver@molbio.cbs.umn.edu

### Safety Seminars

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A sign up sheet is in 411 Borlaug Hall at the front desk. Any questions, please call Mike McClellan at 4-5395.

## Seminars

February 5 Plant Breeding, Blair Waldron, Nearest Neighbor Methods: Can They Improve Efficiency in Breeding Programs, 3:30 p.m., 306 Borlaug Hall.

Plant Molecular Genetics, Pete Lefebvre, Regulation of Nitrogen Assimilation in *Chlamydomonas*, 12:00 noon, 239 Gortner Labs. Cookies and beverages provided.

February 6 Plant Biological Sciences Colloquium, Pam Green, Determinants of mRNA Instability in Higher Plants, 3:30 p.m., 335 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF FLORIDA  
Associate Dean for Extension and Professor, Institute of Food and Agricultural Sciences.  
Closing date: March 1, 1996

UNIVERSITY OF MINNESOTA  
Coordinators for Summer Undergraduate Research Seminars in Life Sciences. Temporary, five hours per week for ten weeks (June 10-August 16). St. Paul and Minneapolis Campus.  
Closing date: May 1, 1996

Student Plot Laborers (three), West Central Experiment Station-Morris. Assist with preparation, planting, caring for, sampling and harvest of agronomy and pasture management and collection of animal research data. Send U of M application and resume to Terry Beseman, West Central Experiment Station, Morris, MN 56267.  
Closing date: March 1, 1996

Grants Management Training Coordinator, Graduate School. Full-time, twelve month, annual renewable professional/administrative appointment. B.A. degree and have three years experience.  
Closing date: February 16, 1996

TERRAL SEED CO., INC.  
Soybean Breeder in Lake Providence, LA. Ph.D. in plant breeding or closely related field with training in genetics, statistics, and plant pathology.  
Closing date: March 20, 1996

WASHINGTON STATE UNIVERSITY  
Superintendent, Puyallup Research and Extension Center. Ph.D. degree and qualifications for tenure in an academic department.  
Closing date: February 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
February 9, 1996

MW  
8 Ag 869

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Welcome

Welcome to Robert de la Pena, a new Research Associate working in Dr. Gallo-Meagher's laboratory, and to Dr. Tabare Abadie who is back for a visit, working with Dr. Stucker.

## Announcements

I would like to thank the department for the flowers sent for the birth of our son, Joshua Laren.  
Kendell and Anne Hellewell

Cu-pid, draw back your bow-w-w, and let...your ar-row go-o-o...Hey-stop singing and read this note! St. Valentine's Day is right around the corner, and the Social Committee is putting on their first Departmental Event of 1996! Please join us for a party in 306 Borlaug on that sweetheart of a day, **Wednesday, February 14, at 3:00 p.m.** We are hosting an **Ice Cream Social** (complete with exciting toppings) and the first ever **Brownie-Bar Bake-off**, baby!!!! Open to all comers, bake a batch of your favorite brownies, or bar-type delicacy, and enter our contest. We will have a judging panel and fun prizes. Check out Monday's posting of the Bake-off's Rules and Regulations in 411 Borlaug. The Ice Cream Social is \$1.50 at the door, and the bake-off is free--the more contestants, the more eats for all!!!!!! Please join us!

The Social Committee

**Reminder to staff:** When an injury requiring medical attention occurs, injured employees are to go to:

HealthWorks Northwest  
Occupational Medical Center  
3033 University Avenue S.E.  
Minneapolis, MN 55414

Their office hours are Monday-Friday,  
8:00 a.m. - 5:00 p.m.

After-hours:

Fairview Riverside Medical Center  
Emergency Room

These facilities have contracted with the University for all work related injuries.

Federal Express now has a drop off box in front of Borlaug Hall. Packages will be picked up at 5:30 p.m. everyday. You no longer have to call in your orders, just dropped them in the box. Mailing forms are available in 408 Borlaug Hall.

**Gentle reminder to all faculty, staff, and students who use 408 and 202 Hayes Hall:** Make sure the windows are closed and latched after you leave!! Thank you.

An alumna has access to several copies of the book, "Guide to Environmental Law from Pre-Manufacture to Disposal" by Stimpson, Kimmel, and Rollin. It is not a law text but rather a book written in layman's terms that describes all the environmental statutes. It would be of interest for a course on ag policy, resource development, or community development. The time line is within the last two years. Let me know if you would like a book(s). As I understand it, quite a few are available free.

Sue Shepard (4-3625)

The U of MN Horticulture Club will have a plant sale on February 13 and 14 from 8:00 a.m. to 6:00 p.m. at the St. Paul Student Union. Hyacinth, daffodils, tulips and cut roses will be for sale.

## Funding Opportunities

The Northarvest Bean Growers Association is asking for submissions of dry bean research proposals. The due date is March 6. See Jeanne for details.

## Weed Science Discussion Group

Dana Blumenthal, Weed Trek, the Next Iteration: How Weeds Move Through Time and Space, Monday, February 12, 12:00 noon, 408 Hayes Hall.

## Noon Hour Brown Bag Discussion

Peggy Egli, Protein Targeting into Organelles, Friday, February 16, 306 Borlaug Hall.

## Greenhouse Users

Spraying: Currently the greenhouses are being sprayed with an Enstar/Mavri, Enstar/Pentac rotation. Last weekend they were sprayed with Enstar+Mavrik. This weekend they will be sprayed with Enstar+Pentac. Enstar is a growth regulator and Pentac is a miticide.

Congratulations to the greenhouses which didn't get fined: 370A2 - 6. Maybe we should all do some cleaning.

I recently found a paper entitled "Greenhouse Insect Control" by Mark Ascerno. In the section, Preventive Methods of Pest Control in the Greenhouse he lists the following:

- A. Insecticides
- B. Sanitation - neat and orderly greenhouse
  - 1. Weed control in and around greenhouse
  - 2. Lingering plants
  - 3. Sterilization of planting media
  - 4. Auxiliary insect control - ants
- C. Environmental manipulation reduces chance of pest success
  - 1. Optimum range for crops \
  - 2. Optimum range for pest / COMPROMISE

**Needed:** A weekend waterer. Zihao is going back to China because his wife is ill. Does anybody know of any students that might be interested? Call me at 5-3153. Thanks!

Pamela Altermatt

## Safety Seminars

On Wednesday, February 14, 1996, there will be a set of safety seminars given by Dan Sieglar in 408 Hayes Hall. Personnel should sign up and go to the seminar that best fits their job functions. These seminars will be repeated on Thursday, February 22.

Attendance is required by all personnel to fulfill MERTKA training requirements for the seminars that apply to their positions.

Any questions, please call Mike McClellan at 4-5395.

## Seminars

February 12 Plant Breeding, Georgia Valle-Razo, The Case of Alien Germplasm: 1B/1R Translocation in Wheat, 3:30 p.m., 306 Borlaug Hall.

February 13 Plant Biological Sciences Colloquium, Michael Frohlich, The Search for Hometric Gene Homologues in Basal and Angiosperms Gentales: A New Source of Evidence in the Evolutionary Origin of Flowers, 3:30 p.m., 335 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### ASGROW SEED COMPANY

Research Associate in Corn Breeding. B.S. degree in plant science with six years of experience in crop breeding, or an M.S. degree with three years experience.

### UNIVERSITIES SPACE RESEARCH ASSOCIATION

Senior Scientists for collaboration on scientific research relating to the observation, analysis, and modeling of ocean and ice processes, ocean biology, and the exchange of water between soil, the biosphere and the atmosphere.

Closing date: March 15, 1996

### WASHINGTON STATE UNIVERSITY

Agricultural Research Technologist II - Forage Crops. Full-time, 12-month permanent position. B.S. degree in agriculture or life science is required, M.S. degree preferred.

Closing date: March 21



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
February 16, 1996

MIV  
2 A036a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Carroll Vance who was elected Fellow of the American Association for the Advance of Science at the 1996 meetings, February 8-13, in Baltimore, Maryland.

The next faculty meeting will be on Wednesday, February 21 at 1:00 p.m. in 306 Borlaug Hall.

I would like pesticide requests, fertilizer requests, and if possible, field space requests by Thursday, February 29. Call me at 4-5395, e-mail (mccle004@maroon.tc.umn.edu), or send your requests in writing.

Mike McClellan

## Safety Seminars

The seminars that were held on February 14 will be repeated on Thursday, February 22 in 408 Hayes Hall. This seminar will be for those personnel that could not make the February 14 sessions.

Attendance is required by all personnel to fulfill MERTKA training requirements for the seminars that apply to their position.

A sign up sheet is on the counter in the main office. Refreshments will be provided.

Any questions, call Mike McClellan at 4-5395.

## Greenhouse Users

The following greenhouses will be sprayed with Enstar + Mavrik + b. sugar: Teaching 4 and 5, 415A7, 370A2, 370C1, 5 and 6 and Weeds 1 and 2. The alfalfa at NW will be sprayed with Knox Out (aerosol).

Pamela Altermatt

## Weed Science Discussion Group

Kevin Betts, Allelopathy in Weed Control, Monday, February 19, 12:00 noon, 408 Hayes Hall.

## Noon Hour Brown Bag Discussion

Wojciech Pawlowski, Transgene Inheritance, Friday, February 23, 306 Borlaug Hall.

## Gopher Crops and Soils Club

We will be holding an agronomy quiz bowl on Wednesday, February 21. This will be an opportunity for students to test their crops and soils knowledge and to practice for the national quiz bowl at ASA next year.

## Seminars

February 19 **Plant Breeding**, Russel Pinnisch, Application of Plant Breeding Strategies to Meet the Demands of Future Cropping Systems, 3:30 p.m., 306 Borlaug Hall.

**Plant Molecular Genetics**, Peggy Egli and Sheila Lutz, Transit Peptides to Transposable Elements: The Maize ACCase Gene Family, 12:00 noon, 239 Gortner Labs. Cookies and beverages provided.

February 20 **Plant Biological Sciences Colloquium**, Michael Binford, Tiwanaka Ecosystems: 3500 Years of Human-Environment Interactions in the Bolivian Altiplano, 3:30 p.m., 335 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF DELAWARE

Associate Dean for Extension and Outreach, College of Agricultural Sciences. Provide effective leadership for Extension's education programs in agriculture.

Closing date: March 31, 1996

### MICHIGAN STATE UNIVERSITY

Assistant or Associate Professor, Department of Crop and Soil Sciences. Tenure-track, 12-month appointment. Ph.D. in turfgrass management or weed science.

Closing date: July 1, 1996

UNIVERSITY OF MINNESOTA  
Coordinator, Instructional Computing,  
Department of Rhetoric. Provides leadership for  
strategic planning and education related to  
information technology, computer needs, and  
distance education. Annual renewable, academic  
administrative appointment. Position available  
ASAP.

Closing date: March 1, 1996

MISSISSIPPI STATE UNIVERSITY  
Assistant Research Scientist, Mississippi  
Agricultural and Forestry Experiment Station.  
Ph.D. in agronomy with emphasis in row crops.

Closing date: March 23, 1996

NATIONAL ASSOCIATION OF STATE  
UNIVERSITIES AND LAND GRANT  
COLLEGES (NASULGC)  
Director, Office of Federal Relations for Food,  
Environmental, and International Affairs. Ph.D.  
in food, agriculture, natural resources or  
environment.

Closing date: March 25, 1996

OREGON STATE UNIVERSITY  
Vegetable Breeder, 75% research and 25%  
teaching. Ph.D. in plant breeding, genetics,  
horticulture, or closely related field with  
experience/interest in vegetable breeding.  
Permanent, full-time, tenure-track position.

Closing date: April 2, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
February 23, 1996

MW  
2/23/86

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A party for graduate students from Agronomy, Plant Pathology, and Soil Science will be held on Wednesday, March 27 from 12:00 noon to 2:00 p.m. in the North Star Ballroom. It will be a chance for the graduate students to get-together from the three departments. The theme for the party will be "An International Extravaganza" with a potluck lunch. There will be entertainment with international dances from different countries. A flyer will be sent out soon. Mark this date on your calendar!!!!

Free pick-up and delivery for photography and graphic orders from Biomedical Graphics Communications. Your easiest way to get your photo and graphics needs met. Call 626-3939 for more information.

Perry Becklin found two keys in one of the parking lots last week. One of the keys looks like a pickup truck key. If you think these are yours, please call 5-5263.

## Special Seminar

Dr. Tabare Abadie, Visiting Scientist from Universidad de la Republica, Montevideo, Uruguay, will present "Conserving Corn Germplasm Resources in Uruguay." The seminar will be held on Tuesday, February 27 at 11:00 a.m. in 306 Borlaug Hall. Everyone is welcome.

## Weed Science Discussion Group

Joe Yenish, Cover Crops as Weed Management Tools, Monday, February 26, 12:00 noon, 408 Hayes Hall.

## Noon Hour Brown Bag Discussion

Paulo Monjardino, An Overview of the Azores Islands, Friday, March 1, 306 Borlaug Hall.

## Annual Agronomy Fishing Trip

The Annual Agronomy Department fishing and outdoor leisure trip will be held June 14 through June 16, 1996. This is our traditional weekend as finals are done, crops are in, and the fish are biting. All good reasons for department faculty, staff, and students to join together on the beautiful sandy shores of Leech Lake. Cedar Springs Lodge will again be kind enough to hold that very popular weekend for the good people of the Agronomy Department. This year in addition to the many fishing prizes and beautiful traveling fisherperson trophy, we will also feature some very nice door prizes (ie. walleye rod). That means you can win without even wetting a line. Relaxing!

Please consider joining your colleagues for this fun weekend and drop a note to Scott Erickson or Art Killam to let us know you are interested. Complete, detailed information will be relayed in early March.



## Seminars

February 26 **Plant Breeding**, Kendell Hellewell, AFLPs - A New Biotechnical Tool, Monday, February 26, 3:30 p.m., 306 Borlaug Hall.

February 27 **Plant Biological Sciences Colloquium**, Stephanie Neid, Ecological and Physiological Aspects of Salt Tolerance in Native Grasses, 3:30 p.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### CORNELL UNIVERSITY

Assistant Coordinator for Sustainable Food and Agricultural Systems, Cornell Cooperative Extension. B.S. in agriculture, natural resources or another area related to sustainable agriculture.

### NEW MEXICO STATE UNIVERSITY

M.S. Research Assistantship, Department of Agricultural Economics and Agricultural Business.  
Closing date: April 1, 1996

UNIVERSITY OF SASKATCHEWAN  
Dry Bean and Chickpea Breeder, Crop  
Development Centre. Ph.D. in applied plant  
genetics, plant breeding or closely related field.  
Closing date: March 31, 1996

UTAH STATE UNIVERSITY  
Dairy Cattle Nutritionist, Department of  
Animal, Dairy and Veterinary Sciences. Ph.D. in  
Dairy Science, Animal Science or related field.  
Closing date: March 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 1, 1996

MW  
9 Ag 86a

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## Announcements

Congratulations to Joshua Soldo who is the State Champion in the Black Belt Heavyweight Division for Tae Kwon Do. He will compete for the National Title in Colorado.

The St. Paul Student Center will be open until 1:00 a.m. from Sunday, March 10 to Thursday, March 14 for studying. Free popcorn, donuts and coffee provided 10:00 p.m. to 1:00 a.m.

The Department of Horticultural Science presents the Kermit A. Olson Memorial Lecture "Urban Horticulture -- The New Science of Plants in Cities" by Dr. Harold B. Tukey, Jr. The event will take place on Wednesday, March 27 at 3:30 p.m. in 33 McNeal Hall. Reception following lecture.

On February 27, two thieves stole a wallet out of Carl Rosen's lab. They each carried a book bag/briefcase with a long shoulder strap and were seen walking around Borlaug Hall earlier. The police have identified the suspects car and are looking into the matter. Please lock up all your belongings.

Women in Agriculture Science will meet on Thursday, March 7 at 12:00 noon in 491 Borlaug Hall. Ann Buyer from the University Counseling and Consulting Service will meet with us. All are welcome to attend.

## Gopher Crops & Soils Club

**FREE BOWLING!** All undergraduate students are invited to take a study break and join the Gopher Crops & Soils Club for free bowling at the St. Paul Student Center on March 6. We will meet at 5:30 p.m. in the Terrace Cafe.

Just a reminder - Hayes 101A is always open and available for studying or just relaxing. Coffee, hot chocolate and snacks will be provided 24 hours a day during finals week.

## Greenhouse Users

**EVERYBODY HAS TO DO THEIR OWN WATERING ON MONDAY, MARCH 4.**

The following greenhouses will be sprayed this weekend with Hot Pepper Wax:

Teaching 4 and 5, 370A1, 2, 5 and 6, 370C1, 5 and 6, and Weeds 1 and 2. Next week we will be releasing aphid, spider mite and thrip predators.

My compliments to the Barley project. You did a nice job cleaning up your greenhouse.

Another compliment I would like to extend is to Mark Galatowitsch and Jonathan Shaver. I am not sure whose idea it was but when they are finished pollinating they remove the tassels from the corn plants. This has made a considerable impact on pest control in their greenhouse.

FINES will be issued for weeds growing in benches and pots (this includes NW) and lack of sweeping.

Pamela Altermatt

## Weed Science Discussion Group

Jeanie Katovich, Biology and BioControl of Purple Loosestrife, Monday, March 4, 12:00 noon, 408 Hayes Hall.

## Noon Hour Brown Bag Discussion

Nick Jordon, Relationship of Agronomy and Plant Genetics Disciplines to Urban Ecology, Friday, March 8, 306 Borlaug Hall.

## Annual Agronomy Fishing Trip

The Annual Agronomy Department fishing and outdoor leisure trip will be held June 14 through June 16, 1996. This is our traditional weekend as finals are done, crops are in, and the fish are biting. All good reasons for department faculty, staff, and students to join together on the beautiful sandy shores of Leech Lake. Cedar Springs Lodge will again be kind enough to hold that very popular weekend for the good people of the Agronomy Department. This year in addition to the many fishing prizes and beautiful

traveling fisherperson trophy, we will also feature some very nice door prizes (ie. walleye rod). That means you can win without even wetting a line. Relaxing!

Please consider joining your colleagues for this fun weekend and drop a note to Scott Erickson or Art Killam to let us know you are interested.

### Recipes from the Winners of the Brownie-Bar Bake-Off Contest

#### Suicide Fudge Bars Muriel Mapes

##### Crust:

1 cup sugar  
1 cup brown sugar  
1 cup margarine or butter  
2 eggs  
2 cups flour  
3 cups oatmeal  
1 tsp. soda

Mix together and press 1/2 of mixture in greased and floured 9 x 13 pan.

##### Filling:

6 oz. chocolate chips  
1 can sweetened condensed milk  
1/2 cup butter or margarine

Melt chips and butter and stir in milk.

Pour over crust.

(I made 1 1/2 recipes of filling).

Put remaining crust on top of filling.

Bake at 350° for 30-35 minutes or until brown.

Cool before cutting.

#### My Aunt's Chocolate Brownies Marilyn Hole

Sift together and set aside:

2 cups white sugar  
2 cups flour  
1/2 tsp. salt

Melt in small pan:

2 sticks margarine  
1 cup water  
3 heaping T. cocoa

In another small bowl beat together:

2 eggs  
1/2 cup sour milk (to make sour milk from regular milk, add 1 1/2 tsp. vinegar or lemon juice to 1/2 cup milk)  
1 tsp. baking soda  
1 tsp. vanilla  
1 tsp. cinnamon

Mix first and second mixtures together. Add third mixture and beat well. Pour into well greased and floured baking sheet. Bake 30 minutes at 350°.

##### Frosting:

Mix well and pour on cake as soon as you take it out of the oven

1 stick margarine, melted  
3 T. cocoa  
6 T. milk  
1 lb. (4 cups) powdered sugar  
1 tsp. vanilla  
1/2 cup chopped nuts (optional)

#### "Basic" Brownies Peggy Egli

3 1/2 oz. squares semi-sweet chocolate  
2/3 cup Crisco (melt together)

2 cups sugar  
1/2 T corn syrup > beat into above  
4 eggs

1 1/2 cups flour  
1 tsp. baking powder > sift together, beat into  
1 tsp. salt above

1 cup broken walnuts - stir in

Spread in greased 13 x 9 pan. Bake at 325° for 25 minutes.

#### Caramel-fudge Brownies Kendell Hellewell

1 (14-oz) bag caramel candies  
1 box German Chocolate cake mix  
1 cup chopped pecans  
12 oz. milk chocolate chips  
1/3 cups evaporated milk  
3/4 cup butter, softened  
1/3 cup milk

Grease and flour an 8 x 12 inch pan. Preheat oven to 350°. Combine caramels and evaporated milk in the top of a double boiler over simmering water, stirring over medium heat until melted. Set aside. Combine cake mix, butter, pecans and milk to form a dough. Press half of the dough mixture into the prepared pan and bake in the preheated oven for six minutes. Then sprinkle chocolate chips over the baked crust and dot and spread the melted caramel over the chips. (The mixture will not cover crust completely). Spread remaining dough over caramel. Return to the oven for 20 minutes or until set. Cool then refrigerate before cutting into squares.

## Seminars

March 4 Plant Breeding, Jose Vasquez,  
Simultaneous Improvement of  
Multiple Traits in Early Generation  
of Common Beans, 3:30 p.m.,  
306 Borlaug Hall.

Plant Molecular Genetics, Robert  
Ascenzi, A Diverse Family of Plant  
Chromatin Proteins, 12:00 noon, 239  
Gortner Labs. Cookies and  
beverages provided.

March 5 Plant Biological Sciences  
Colloquium, Glenn Furnier, Genetic  
Variation in the Mexican Firs, 3:30  
p.m., 335 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

DEKALB GENETICS CORPORATION  
Station Manager (two positions available) for  
Soybean Research in N.W. Ohio and N.W.  
Iowa/SW Minnesota. Ph.D. in plant breeding

IOWA TESTING LABORATORIES, INC.  
Agronomist, agronomy sales and technical  
support. Experience in soil sampling, computers,  
GSP and marketing skills. Travel required.

UNIVERSITY OF MINNESOTA  
Senior Research Associate, Department of  
Biochemistry. Ph.D. in physics or chemistry and  
at least 15 years experience.

Closing date: March 18, 1996

NORTH DAKOTA STATE UNIVERSITY  
Weed Biology/Physiology Scientist, Department  
of Plant Sciences. Ph.D. in weed science, weed  
ecology, crop genetics or closely related field.

Closing date: March 15, 1996

# Agronomy Gleanings

MIW  
9 Ag 86a

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 8, 1996

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## Announcements

Welcome to Linda Smith, a new scientist working with Dave Somers.

Soup Lunch Charity will be held on Thursday, March 28 from 11:45 a.m. to 1:30 p.m. in 306 Borlaug Hall. The Soup Lunch Charity is a fund-raiser for Second Harvest, St. Paul Food Bank. Every dollar we donate buys \$20 worth of food for the food bank. To help, please bring soup or a casserole to 306 Borlaug Hall before 11:00 a.m. on March 28. If possible, please use a Crock-Pot and bring your own ladle (label your belongings). Also, bring a list of ingredients for people with allergies, etc. Everyone is invited to come.

## Greenhouse Users

There won't be any spraying this weekend. We will be releasing predators.

### Greenhouse Honor Roll

Congratulations to the wheat project on the wonderful job they did cleaning up. They probably won't make the honor roll much because generally their house is kept so clean that you can't tell they cleaned. Thank You!!

Congratulations to Dr. Jones' crew. They have also done a great job at maintaining a clean greenhouse all year. Thank you!!

Following is a quote from Mike Bordelon, Green House Manager, Department of Botany, Smithsonian Institution on insects. "Yes, they are here to stay. Sanitation is one of the most important thing to keep in mind when trying to keep them out. No weeds in pots or under benches is a must."

This next quote is from Denis Nobert Macdonal Campus of McGill, Plant Science Greenhouse, Ste Anne-de-Bellevue, Quebec, "However, any cultural practices used will be beneficial. We enforce strict sanitation rules and encourage our researchers and workers to act as scouts and advise us immediately when they see a pest. We tolerate zero weeds both in the pots and under benches.

Does this sound familiar???

Pamela Altermatt

## Civil Service Excellence Award

Watch your mailbox for nomination information for the Civil Service Excellence Award for 1996. The \$1,500 award (minus taxes), certificate and name addition to the award plaque recognizes excellence in job performance among civil service personnel in the Department of Agronomy and Plant Genetics. Anyone can prepare a nomination (students, staff, faculty). Please submit your nomination and supporting letters to Mark Galatowitsch in 411 Borlaug Hall by noon on Friday, March 29. If you have any further questions about the nomination process or the award, please check with one of the Civil Service Liaison Committee members (Roger Caspers, Scott Erickson, Mark Galatowitsch, Dave LeGare).

Also, mark your calendars for the Civil Service Awards Ceremony scheduled for Thursday, April 18 at 3:00 p.m. in 306 Borlaug Hall.

## Computer Users

On Tuesday, March 12, the Power Macintosh and IBM PC "B" will be leaving us for repairs. Unfortunately, these two computers are connected to the slidemaker. As seminars are done, we are hoping to minimize user conflicts. Also, please remove any personal files that you wish to keep.

If you have any problems with this plan, please call Jonathan Shaver 5-9258 or e-mail shaver@biosci.cbs.umn.edu.

## Grant Received

Donald L. Wyse, Educating the Agricultural Community on Sustainable Agriculture, \$200,000 - 10/15/95-6/30/97.

## Seminar

March 11 **Plant Breeding**, Paul Richter, QTL patterns - comparative QTL mapping in cereals, 3:30 p.m., 306 Borlaug Hall.



## Annual Agronomy Fishing & Outdoor Leisure Trip

When? June 14 through June 16, 1996  
Where? Cedar Springs Lodge on famous Leech Lake  
Who? Department faculty, staff, students, and families  
Why? Camaraderie, relaxation, fun, swim, sun, fish, prizes

1996 Rates: (same as 1995!)

Cabins: 2 cap. @ \$55/day  
4 cap. @ \$55/day  
4 cap. @ \$60/day (3 avail.)  
6 cap. @ \$90/day  
6 cap. @ \$120/day (2 avail.)

Camping: \$5/day/person over 12

General: Boats \$10/day & up. Motors \$17/day & up.  
Boat harbor \$5/day. Boat ramp \$5.

Contact: Scott Erickson 625-1965,  
(Erick037@maroon.tc.umn.edu)  
Art Killam 624-2205,  
(Killa001@gold.tc.umn.edu)

Further detailed description, information, and great propaganda is available!

Please let us know your trip interests, questions, or observations.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

#### ABC LABORATORIES

Field Research Biologist, Agronomist or Principal Investigator. B.S. in agronomy or closely related field.

#### CENTER FOR INTERNATIONAL RESEARCH & TRAINING IN AGRICULTURE

Field Research Technician. Need good technical skills, farm background and experience with farm machinery.

#### DEKALB GENETICS CORPORATION

(Two) Station Managers, Soybean Research, Northwest Ohio and Northwest Iowa. Ph.D. in plant breeding and experience in managing a commercial soybean breeding program.

ICRISAT (International Crops Research Institute for the Semi-Arid Tropics)  
Technology Transfer Specialist. Located in the Southern African Development Community Groundnut Project at Chitedze Research Station. Ph.D. in agronomy or a related field.

Closing date: March 30, 1996

#### UNIVERSITY OF MINNESOTA

Director of the Office of Research Ethics and Regulatory Compliance, Office of the Vice President for Research and Dean of the Graduate School. Twelve-month, 50% time, annually renewable administrative appointment.

Closing date: March 29, 1996

Immunology/Molecular Biology Postdoctoral Position, Center for Immunology, Medical School. A strong background in molecular/cellular biology is required.

#### NEW MEXICO STATE UNIVERSITY

Assistant Professor of Horticulture, Department of Agronomy & Horticulture. Tenure-track, 12-month appointment with 60% teaching and 40% research assignment. Ph.D. in ornamental/environmental horticulture

Closing date: April 19, 1996

#### J.C. ROBINSON SEED CO.

Corn Breeder and Station Manager. Ph.D. in plant breeding or genetics with corn breeding experience.

Closing date: Spring 1996

#### STEPHEN F. AUSTIN STATE UNIVERSITY

Forest Soils position, College of Forestry. Ph.D. in soil science.

Closing date: June 1, 1996

#### VALENT USA CORPORATION

Field Market Development Summer Intern. B.S. degree in agriculture or related field. Assist with product demonstration plots.

Closing date: March 20

#### UNIVERSITY OF WISCONSIN-MADISON

Director, Wisconsin Foundation Seed Program, Research Program Manager II, Department of Agronomy. M.S. degree with some experience or B.S. degree with considerable experience.

Closing date: April 1, 1996

# Agronomy Gleanings

MIW  
9 Ag 86a

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 15, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Dr. A.C. Hodson, retired head of Entomology, died on Wednesday, March 13. No memorial services will be held. If you would like to send cards to his wife, her address is: 1236 West Roselawn Avenue, Roseville, MN 55113.

Laddie Elling

## Announcements

Congratulations to Deon and Judy Stuthman on their new granddaughter Maren Elizabeth. She was born on Saturday, March 9 and weighed 7 lbs. 13 oz.

The next faculty meeting will be held on Monday, March 18 at 1:00 p.m. in 306 Borlaug Hall.

The University of Minnesota will be closed on Friday, March 22 for a floating holiday.

You are invited to a retirement party for Arnold Hoepfner, Department of Animal Science, and Dave Sandstrom, Department of Agronomy and Plant Genetics. The party will be held at the American Legion Club, 14521 Granada Avenue, Apple Valley, on Thursday, April 11 from 6:00-9:30 p.m. Dinner served at 6:45 p.m. Program to follow. If you have questions, please call the Agricultural Experiment Station Office at 423-2455.

Faculty - Since the U of M will soon be converting to semesters the last opportunity to submit an A96 for a quarter-length 1XXX, 3XXX, and 5XXX class will be April 26, 1996. Please see Lynne if you are planning to submit an A96 to add or change a course.

Please update any of your alumni graduate student's addresses with Lynne Medgaarden. Many of our addresses are out-of-date.

A conference for Graduate and Professional Students and College and University Faculty, Friday, April 19, 1996, U of M (Minneapolis) 9:00 a.m. - 4:30 p.m. Featured guest speaker will be Jerry Gaff, one of the originators of Preparing Future Faculty.

APGBB Discussion -

The deadline for signing up for spring quarter 96 has been extended to March 22. Please return your sheets to mailbox #50.

New course offering from TOPDS/PFF

Spring Term - 1996 - Wednesday's, 2:00-5:00 p.m., GRAD 8200: Presentation and Verbal Interaction Skills for the Future Professorate.

Instructor: Shelley L. Smith

Enrollment limited to 20 people.

For more information - call 627-4040

Agronomy Seminars are scheduled for spring quarter this year. They will take place on Monday's at 3:30 p.m. in 306 Borlaug Hall. Mark your calendars and plan to attend. Six agronomy graduate students have signed up for seminars.

Soup Lunch Charity will be held on Thursday, March 28 from 11:45 a.m. to 1:30 p.m. in 306 Borlaug Hall. The Soup Lunch Charity is a fund-raiser for Second Harvest, St. Paul Food Bank. Every dollar we donate buys \$20 worth of food for the food bank. To help, please bring soup or a casserole to 306 Borlaug Hall before 11:00 a.m. on March 28. If possible, please use a Crock-Pot and bring your own ladle (label your belongings). Also, bring a list of ingredients for people with allergies, etc. Everyone is welcome.

The MAD Scientist Network is a collective of scientists and educators from around the world fielding science questions from K-12 students and the WWW community at large. Participation in the network is open to anyone involved in science education or research. A valid e-mail address and a willingness to communicate your knowledge of science with others are the only prerequisites. The network server is located at Washington University Medical School in St. Louis, and is staffed and run by graduate and medical students at the university. If you would like to join, please fill out the on-line form at:  
<http://pharmdec.wustl.edu/YSP/MAD.SCI/wu/rec.html>

## Women in Agricultural Science

We will be viewing the next installment of the PBS special "Women in Science" on Thursday, March 21 at 12:00 noon in 491 Borlaug Hall. Bring your lunch and enjoy the show!

## Greenhouse Users

The greenhouses will be sprayed with Hot Pepper Wax over the weekend. We will also be releasing some more predators.

Following are some of the Operational Procedures from the Horticulture Department.

- 1) All faculty members and their employees shall leave the greenhouse/headhouse as clean or cleaner at the completion of the task, and/or at the end of the day, as it was before starting the task. This includes the classroom area.
- 2) Maintain plants in proper cultural condition. All growing sections, including benches, shall be kept free of dead plant material and excess soil.
- 3) Discard unneeded plant material promptly in the correct waste unit.
- 4) Faculty members should check their greenhouse sections, cold rooms and assigned growth chambers frequently (at least weekly) to insure adherence to proper operational procedures by their grad students, technicians, student help and others.

We are going to implement a new procedure. The first Monday of every month all projects will be responsible for watering their greenhouses. On this one day a month, it is also expected that you will clean your greenhouse(s). All floors will be swept and all garbage thrown out-this includes old sticky traps. All dead plant material will be trimmed or thrown out. Just a reminder, ALL plant material and soil gets thrown out the east doors in the 370, 415, teaching and NW greenhouses. Monday, April 1st will be your first watering/cleanup Monday. This cleanup includes the weeds in 370A1 and out at NW house 3.

**\*\*A Note\*\*** Horticulture inspects their greenhouses weekly and cleanup fees are charged.  
Pamela Altermatt

## International Extravaganza Potluck Lunch

The International Agriculture group and the Department of Plant Breeding Social Committee would like to invite personnel from Agronomy and Plant Genetics, Plant Pathology, and Soil Science Departments to an International Extravaganza Potluck Lunch. A sign up will take place in each department administrative office. Please sign up before March 21. If you are unable to bring an item, a \$4.00 donation is requested. The International Agricultural group has lined up international entertainment consisting of dances from different countries and music during dining. If you are interested in representing your country, please contact Ana Maria Procopiuk at 5-8759 or

proc0018@gold.tc.umn.edu.

## VISA Rewards for Everybody who used it Last Quarter of 95

All expenditures on all your VISA (any VISA Card) from October 1, 1995 to December 31, 1995 will earn you 10% of the total amount charged on your account. For example, if you spend \$1000 within this time period, then you will have \$100 in certificates accumulated with VISA. This would convert to \$100 towards restaurants, Marriott Hotels, rent-a-car agencies, airlines (ask VISA when you call which they are). Since VISA has 85 million cardholders, they won't be mailing out certificates to everyone.

The only way to receive your "earned credits" is to call VISA between January 22 and March 29, 1996 and claim your certificate at 1-800-750-VISA (8472). This is a legitimate offer - it's part of their customer award program. They just neglected to send the information to all 85 million customers, so it's up to you to call. This is a real offer for ALL VISA cardholders. At prompt, press 4.

Take advantage of it and tell a friend because they're not advertising. Just call them and VISA will tabulate your total Earned Credit .. just make sure to let them know if you have more than one VISA card or account.

If anyone feels like doing something nice for someone:

Craig Shirgold is a seven-year old boy who lives in Keen, NH. He is dying from an inoperable brain tumor. He made a wish to Children's Wish Foundation that he wants one million get well cards sent to him by August 15, so he can make the world book of records before he dies. Cards can be made or bought. Please send the cards to the following address:

Craig Shirgold  
c/o Children's Wish Foundation  
32 Perimeter Center East  
Atlanta, Georgia 30326

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA-DAVIS  
Cotton Agronomist, Department of Agronomy and Range Science. Ph.D. in agronomy, crop ecology or crop protection/pest management.

Closing date: April 1, 1996

NORTH CAROLINA STATE UNIVERSITY  
Assistant Director, County Operations, North Carolina Cooperative Extension Service.  
Ph.D. , 100% extension appointment.

Available: Immediately

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 21, 1996

MIW  
e Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

The undergraduate recognition program for the Department of Agronomy and Plant Genetics is scheduled for Tuesday, April 2 in 306 Borlaug Hall at 3:00 p.m. Faculty--mark your calendars and plan to attend. We will have speakers discussing their work and study in Russia. Several undergraduate students and their parents will attend to receive scholarships. Plan to come and represent the department.

The Agronomy Teaching Lab will once again be conducting "Bottle Biology" experiments this spring. We need donations of pop or water bottle caps for our experiments. We do not need bottles as Coca-Cola made a large donation last year. Please drop off any caps you may have at the Teaching Lab, 207 Borlaug Hall.

Take Our Daughters to Work Day will be on Thursday, April 25. This year's special theme is Vote for Me! Through a day of programming, girls will be given our vote of confidence and commitment.

Hamm Memorial Lecture will be held on Tuesday, May 14, 1996 with a reception at 3:30 p.m. and lecture at 4:00 p.m.. Lecturer: Professor J. S. Heslop-Harrison, Karyobiology Group, John Innes Centre, Norwich, England. We will send a flyer out as soon as we receive the title.

Hakima Bahri (former graduate student) and her husband Raschid had a baby girl in November. They named her Yasmine.

One of our student workers on the alfalfa project, Dustin Leen, fell down several stairs and severely broke both of his wrists. He may never fully regain the use of his wrists and he will not be able to work for at least two months. He has adequate insurance to cover his medical expenses but no income. Therefore, we are asking for donations to help him out. If anyone is willing to donate some cash to Dustin, they can do so by writing a check to Dustin Leen and placing it in my mailbox in the Agronomy office. Thank you, Keith Henjum

The Caravan's and the Buick Century will be brought outside on Friday, March 29. They will be parked in front of the Small Grains Greenhouse at 1529 Lindig Avenue until December 1. Also 3714, the Large Cab Red Ford Pickup, will be the sign out truck again this year.

We are cooperating with the Weisman Art Museum on the construction of an antique Corn Crib that will be the focus of an upcoming outdoor exhibit at the museum. It is being constructed in the SE corner of the Crop Service Building. If anyone would like to take a look at this form of Ag Art, it will be temporarily assembled until March 28, then it will be dismantled and moved to the Weisman Art Museum.  
Mike McClellan

## International Extravaganza Potluck Lunch

The International Agriculture group and the Department of Plant Breeding Social Committee would like to invite personnel from Agronomy and Plant Genetics, Plant Pathology, and Soil Science Departments to an International Extravaganza Potluck Lunch. It will be held on Wednesday, March 27 from 12:00-2:00 p.m. at the North Star Ballroom. A sign up will take place in each department administrative office. If you are unable to bring an item, a \$4.00 donation is requested. The International Agricultural group has lined up international entertainment consisting of dances from different countries and music during dining. If you are interested in representing your country, please contact Ana Maria Procopiuk at 5-8759 or proc0018@gold.tc.umn.edu. Everyone is welcome.

## Seminars

March 25 M.S. Thesis Defense, Wayne Selberg, Herbicide Mode-of-Action and Injury Symptoms in Spring Wheat and Barley, 1:30 p.m., 408 Hayes Hall.

Soil, Water, & Climate, Dawn Tracy, An Introduction to Private Sector Consulting, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

**AUGUSTANA COLLEGE**

Assistant Professor of Biology with an emphasis in genetics/plant biotechnology. Ph.D. in plant genetics.

Closing date: April 12, 1996

**BHN RESEARCH (Southwest Florida)**

Plant Pathologist. B.S. or M.S. in plant pathology with minor in plant breeding. Candidate must be willing to travel.

**CARGILL HYBRID SEEDS**

Associate Breeder, Worldwide Seed Research. Ph.D. in plant breeding or genetics.

Assistant Breeder, Worldwide Seed Research. B.S. in agronomy or crop science.

**UNIVERSITY OF IDAHO**

Scientific Aide, Plant, Soil & Entomological Sciences. B.S. degree in horticulture, biology, or plant physiology.

**UNIVERSITY OF MINNESOTA**

Temporary Employment, five to six months beginning April 1. Opportunity to join the Scab Working Group. Main responsibilities are for scab experiments and the scab screening nurseries at the West Central Experiment Station, Morris. Benefits are included. Housing at Morris provided. Call Ruth Dill-Macky at 625-2227.

Associate Dean for Research and Assistant Director of the Minnesota Agricultural Experiment Station, COAFES.

Closing date: March 29, 1996

District Director, Minnesota Extension Service. M.S. degree is required.

Closing date: April 12, 1996

**TEXAS A&M UNIVERSITY**

Graduate Research Assistantship, Soil & Crop Sciences. M.S. or Ph.D.

**WEST VIRGINIA UNIVERSITY**

Extension Specialist, Sustainable Agriculture. Full-time and non-tenure track position. Ph.D. preferred.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

March 29, 1996

MW  
Ag 36a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Erv Oelke who received an Outstanding Service Award from the Minnesota Cultivated Wild Rice Council. Erv is the first recipient of this prestigious award.

We would like to thank everyone who helped make the soup lunch successful again this year. Thank you to the 18 people who donated soup. The soups were delicious and were complemented nicely by the outstanding bread which was once again kindly provided by Cafe Latte. Thanks also to Scott Erickson, Dave LeGare and the barley project for lending us power cords and strip outlets. Finally, thanks to everyone who came and generously gave to support the work of the Second Harvest Food Bank. We were able to raise \$242 which will be given to the Second Harvest Saint Paul Food Bank to help them distribute donated food to charitable feeding programs throughout Minnesota, western Wisconsin and North Dakota. We hope you enjoyed the soup lunch.

The soup lunch committee

The undergraduate recognition program will be held on Tuesday, April 2 in 306 Borlaug Hall at 3:00 p.m. Plan to come and represent the department.

The Civil Service Awards Ceremony will be held on Thursday, April 18 at 3:00 p.m. in 306 Borlaug Hall. Everyone is welcome.

If anyone is interested in playing on the men's softball team, please contact Jonathan Shaver at 5-9258.

You are invited to a retirement party for Arnold Hoepfner, Department of Animal Science, and Dave Sandstrom, Department of Agronomy and Plant Genetics. The party will be held at the American Legion Club, 14521 Granada Avenue, Apple Valley, on Thursday, April 11 from 6:00-9:30 p.m. Dinner served at 6:45 p.m. If you are planning to attend, money is due on Monday, April 1.

Larry Linburgh, Prairie Agricultural Research, is looking for a small plot combine to purchase. Please call him at 1-605-448-5256, if you know of one for sale.

The St. Paul Campus mail budget is being reduced and the U.S. and campus mail will be affected. Campus mail will be picked up and delivered once per day. Delivery goal is 48 hours from pick up. Service will be reduced in Morrill Hall, Coffey Hall, and Classroom Office Building. If additional funding from the U.S. Postal Service is forthcoming, management of the contract station in Coffey Hall will be transferred to the St. Paul Student Center, if it is not forthcoming, the station will be closed. Letters explaining how important the Contract Station is to your department that can be presented to the Postal Officials are very welcome. If you have any specific questions, please feel free to contact Grant Tragethon at 625-6055 or e-mail at trage001@maroon.tc.umn.edu.

The Caravan's and the Buick Century will be brought outside today. They will be parked in front of the Small Grains Greenhouse at 1529 Lindig Avenue until December 1. Also 3714, the Large Cab Red Ford Pickup, will be the sign out truck again this year.

Mike McClellan

## Weed Science Discussion Group

Dana Blumenthal, WEED TREK, the Next Iteration: How Weeds Move Through Time and Space, Monday, April 1, 12:00 noon, 408 Hayes Hall.

## Greenhouse Users

REMINDER--The greenhouses are closed every Friday at 4:30 p.m. until Sunday 8:00 a.m. for spraying. Avid will be sprayed in Teaching 4, 415A7 and 370A5. Margosan-O will be sprayed in Teaching 5, 370A1 and 2, 370C1, 5 and 6.

WATERING/CLEAN UP--Everybody is responsible for cleaning and watering in their greenhouses on MONDAY, APRIL 1. To avoid being fined, remove all garbage, throw out old plant material, remove weeds from benches and pots and sweep. Remember that soil and plant material (ONLY!!) get tossed out the back of the greenhouses for recycling.

Pamela Altermatt

## Faculty, Staff and Undergraduates

Do you support graduate students and their efforts? If you do, and believe in the importance of graduate education, please sign the chartreuse green petition at the front desk of Borlaug 411, or on the door of Hayes 313.

Scott Reuss

### Seminars

April 1 Agronomy, Cindy Arnevik, Decision Making in Evolving Cropping Systems, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, & Climate, Suling Zhao, Soil Erosion and Its Control in China, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

April 2 Plant Biological Sciences & Plant Molecular Genetics, Barbara Baker, The Product of the Tobacco Mosaic Virus Resistance Gene N: Similar to Toll and Interleukin-1 Receptor, 3:30 p.m., 335 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

COLORADO STATE UNIVERSITY  
Environmental and Pesticide Education Specialist,  
non-tenure track, 12-month faculty position. M.S.,  
Ph.D. preferred.

Closing date: May 15, 1996

MONTANA STATE UNIVERSITY  
Head, Department of Plant, Soil and  
Environmental Sciences.

Closing date: May 6, 1996

UNIVERSITY OF NEBRASKA  
USDA National Graduate Fellowships in Water  
Sciences for doctoral studies.

NEW MEXICO STATE UNIVERSITY  
Agricultural Specialist in Forage Management,  
Department of Agronomy & Horticulture. M.S. in  
agronomy or related field.

Closing date: May 15, 1996

OREGON STATE UNIVERSITY  
Assistant Professor, Dryland Cropping Systems  
Agronomist, Columbia Basin Agricultural Center.  
Ph.D. in agronomy, crop science or related  
discipline.

Closing date: May 10, 1996

### ST. OLAF COLLEGE

Two Assistant Professor appointments available,  
one-year, with possibility of renewal and a one-  
semester sabbatical replacement position. Ph.D.  
and demonstrated experience and ability to teach.

Closing date: April 19, 1996

From: Stephan Somogyi  
THE RABBIT, THE FOX AND THE WOLF -- A FABLE

One sunny day a rabbit came out of her hole in the ground to enjoy the weather. The day was so nice that the rabbit became careless, so a fox sneaked up to her and caught her. "I am going to eat you for lunch!" said the fox.

"Wait!" replied the rabbit, "You should at least wait a few days"

"Oh yeah? Why should I wait?"

"Well, I am just finishing writing my Ph.D. thesis."

"Hah! That's a stupid excuse. What is the title of your thesis anyway?"

"I am writing my thesis on 'The Superiority of Rabbits over Foxes and Wolves.'"

"Are you crazy? I should eat you up right now! Everybody knows that a fox will always win over a rabbit."

"Not really, not according to my research. If you like, you can come to my hole and read it for yourself. If you are not convinced you can go ahead and have me for lunch."

"You are really crazy!" But since the fox was curious and had nothing to lose, it went with the rabbit into its hole. The fox never came back out.

A few days latter the rabbit was again taking a break from writing and, sure enough, a wolf came out of the bushes and was ready to eat her.

"Wait!", yelled the rabbit, "you cannot eat me right now."

"And why might that be, you fuzzy appetizer?"

"I am almost finished writing my Ph.D. thesis on 'The Superiority of Rabbits over Foxes and Wolves.'"

The wolf laughed so hard that it almost lost its hold on the rabbit. "Maybe I shouldn't eat you, you are really sick in your head, you might have something contagious," the wolf opined.

"Come read for yourself, you can eat me after that if you disagree with my conclusions." So the wolf went to the rabbit's hole and never came out.

The rabbit finished writing her thesis and was out celebrating in the lettuce fields. Another rabbit came by and asked, "What's up? You seem to be very happy." "Yup, I just finished writing up my dissertation."

"Congratulations! What is it about?"

"It is titled 'The superiority of Rabbits over Foxes and Wolves.'"

"Are you sure? That doesn't sound right."

"Oh yes, you should come over and read for yourself."

So they went together to the rabbit's hole.

As they went in, the friend saw the typical graduate student abode, albeit a rather messy one after writing a thesis. The computer with the controversial dissertation was in one corner, on the right there was a pile of fox bones, on the left was a pile of wolf bones, and in the middle was a lion.

The moral of the story is: The title of your dissertation doesn't matter, all that matters is who your thesis advisor is.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Upper Buford Circle, St. Paul, MN 55108 (612) 625-7773  
April 12, 1996

MIN  
E.A. 86

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

**Civil Service Excellence Award and Longevity Recognition Awards.** Thursday, April 18, 3:00 p.m., 306 Borlaug Hall. Please join in the reception which is open to all members of the Department of Agronomy and Plant Genetics. Cake and punch will be served.

For those interested in sharing their thoughts regarding the payroll system change from bi-monthly to bi-weekly, email messages may be sent to:

Ettore Infante, Sr. Vice President at  
infante@mailbox.mail.umn.edu  
Richard Pfutzenreuter, Assoc. VP,  
Office of Budget and Finance at  
pfutz001@maroon.tc.umn.edu

**Vehicle Reminder** - Keep the checkout vehicles gas tanks over half full. Vehicles have come back with tanks almost empty. This has caused an inconvenience for the next person, especially if they are leaving early the next morning.

**PHH Card** - Do not remove the PHH card from the checkout vehicles, only for gas stops. Make sure the PHH card gets back into the glove compartment and not your pocket or left at the station.

**Parking Warning** - This will be the only warning about parking before private vehicles are tagged/towed. Any non-government vehicles that are illegally parked in the 1529 Lindig Ave. Lot (small grains greenhouse), the parking areas around Crops Research, Crop Science, 370 Greenhouse and Seedhouse will be tagged/towed to the nearest impound lot. This includes any illegal parking by any of these buildings. Private vehicles in these areas cause problems for parking, loading and unloading of government vehicles.

Mike McClellan

**The Second Annual Shape-Up Challenge** is coming soon. Details will follow.

**Central Steam Shutdown - Planned Maintenance.** A reminder that there is a planned shutdown of central steam service for May 1, from 5:00 a.m. to 10:00 p.m. All buildings are connected to central steam and will have some interruption of service. This outage is necessary for the St. Paul Steam Plant to perform planned maintenance on the boilers. Services affected are central heating and cooling, domestic hot water, dishwashers, sterilizers, autoclaves and any general use of steam for cleaning or humidification. If there are concerns, please call so we can help.  
Fred Clayton, 624-4940  
Ken Mingo, 626-7865

**Grant Awarded: Weed-Competitive Soybeans: Adaptability and Ecophysiology,** Nicholas Jordan, James H. Orf and Steve R. Simmons, USDA, \$130,000, 9/15/95-9/30/98

**Women in Agricultural Science.** Our next meeting will be Thursday, April 18 at noon in 491 Borlaug Hall. We will be viewing another installment of the PBS special "Women in Science". Bring your lunch and enjoy the show!

**Take Our Daughters to Work Day** is Thursday, April 25, 1996. The Ms. Foundation for Women is pleased to announce the first Take Our Daughters to Work Day Sweepstakes. Three girls between the ages of 9 and 17 will win \$20,000 in U.S. Savings Bonds which may be used for continuing their education. Pick up your official sweepstakes registration form at the kick-off, which will be at 8:00-8:30 a.m. in the North Star Ballroom.



**Get electronic grant forms from ORTTA's web page.** A wide variety of electronic forms for grant applications, reports, and other business related to sponsored projects are available for downloading to your computer and printer. Many can be accessed via ORTTA's web page (<http://www.ortta.umn.edu>), which will link you to ORTTA's gopher server ([gopher.ortta.umn.edu](mailto:gopher.ortta.umn.edu)).

ORTTA also welcomes tips about additional forms newly available. If you know of a newly available form, or have any other questions or comments regarding electronic forms, please contact Mary Cybyske, 612/624-6085, [mary-c@ortta.umn.edu](mailto:mary-c@ortta.umn.edu).

from Kiosk, April 1996

**Greening the Great River Park, April 27, Arbor Project.** Looking for a fun and rewarding project for spring? If you would be interested in participating in this event which will include planting trees and shrubs, spreading mulch, watering plants and making a difference in the look of downtown St. Paul, please sign up in 411 Borlaug Hall. Additional information is available at the sign-up sheet.

#### Memorial Lectures

**Graduate School's Guy Stanton Ford Memorial Lecture** for 1996, The Evolution of Life and Great Geological Catastrophes by French geophysicists Vincent Courtillot. Thursday, May 16, 1996, 10:15 a.m., 150 Physics Building, East Bank.

**Philip C. Hamm Memorial Lecture** will be held Tuesday, May 14, 1996. Probing, Priming, and Painting Plant Chromosomes: The Comparative Analysis of Genome Organization by Professor J.S. (Pat) Heslop-Harrison, Karyobiology Group, John Innes Center, Norwich, England. 3:30 p.m. Reception, 33 McNeal Hall Lobby, 4:00 p.m. Lecture, 33 McNeal Hall, St. Paul Campus.

#### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

R.D. OFFUTT COMPANY  
Rt 4, Box 10B, Park Rapids, MN 56470  
Potato Field Agronomist

UNIVERSITY OF ARKANSAS  
Extension Agronomist, West and Feed Grains,  
Ph.D. in agronomy or closely related discipline  
required.

Closing date: June 1, 1996

SOUTHWEST TEXAS STATE UNIV.  
Assistant Professor of Animal Science, Ph.D.  
required.

Closing date: April 19, 1996

UNIVERSITY OF IDAHO  
Research Support Scientist I, M.S. degree in  
plant science or closely related field required.

Closing date: April 17, 1996

UNIVERSITY OF TENNESSEE  
Extension Assistant/Associate in Weed  
Management. M.S. or B.S. with appropriate  
experience in agronomy or related discipline.

Closing date: May 3, 1996

GUSTAVUS ADOLPHUS COLLEGE  
Instructor/Laboratory Coordinator, Biology  
Department. M.S. in biological sciences and  
strong interest in teaching at a liberal arts  
college, and the ability to interact with students  
are required.

#### Seminars

April 15 **Agronomy**, David Griffin,  
Multispecies riparian buffer strip  
systems, 3:30 p.m., 305 Borlaug  
Hall.

**Soil, Water, & Climate**, David  
Kelley, Cultivar Field Trials for  
Upland and Flooded Rice  
Cultivation in Rural Senegal, West  
Africa, 3:00 p.m., 375 Borlaug  
Hall.

April 22 **M.S. Thesis Defense**, Liz Stahl,  
The Impact of Tillage Systems on  
Seedbank Characteristics and  
Weed Population Development,  
9:00 a.m., 306 Borlaug Hall

# Agronomy Gleanings

Department of Agronomy and Plant Genetics

University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

April 19, 1996

MW  
2/28/96

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Congratulations

Congratulations to Jeff Roessler who was the recipient of the 1996 Civil Service Excellence Award!

Congratulations to the following recipients of the Longevity Recognition Awards:

Five years - Pamela Altermatt  
Jeanne Davy  
Kathleen Storey

Ten years - Doug Miller

Fifteen years - Kevin Betts  
Pat Kessler  
Sue Miller

Congratulations to the following individuals who were elected to Gamma Sigma Delta last night at the Initiation Banquet.

Cindy L. Arnevik  
Leanne M. Matthiesen  
Paulo F.M. Monjardino  
Ana Maria Procopiuk

Also, congratulations to Larry Smith who received the Award of Merit from Gamma Sigma Delta.

Please congratulate Sheri Huerd and Suzanne Livingston for being elected to the Civil Service Liaison Committee. They will each serve a two-year term starting July 1, 1996, and are replacing Scott Erickson and Mark Galatowitsch. Sheri and Suzanne will be joining Roger Caspers and Dave LeGare on the committee. Civil service employees in the department can use any of the four members to bring forward departmental concerns which they may have.

## Announcements

The Social Committee invites the Agronomy Faculty, Staff and Students to a Farewell Party for Maria Gallo-Meagher on Thursday, April 25 at 3:00 p.m. in 306 Borlaug Hall. Please join us.

The Shape Up Challenge will begin on April 29 and end on June 9. Start to form your teams now, or if you wish to maintain your individualism, feel free to do so. Weekly prizes will be awarded by a drawing of individuals who earn at least 200 points a week. To participate, you need to contact Lynne in 302 Hayes Hall by April 26.

Attention Graduate Students. Please remember to get your photo taken as you near completion of your degree so that you too can hang on the wall in 306 Borlaug Hall. Don't wait until the last minute when you are running out of time. Go and do it early. See Lynne Medgaarden to find out what you need to do. Act now! Don't delay!

## Plant Biotechniques - AGRO 5330

Thanks to the students, postdoc instructors, and Drs. Phillips and Gallo-Meagher for their participation in AGRO 5330 - Plant Biotechniques last quarter. There were six students, two auditors, eleven instructors, and various other attendees, and the course was very well received. In addition to past topics on proteins, hormones, gene structure - mapping - expression - manipulation, and plant transformation, this year there was new information on NIR spectroscopy and on analysis of very large DNA and chromosomes. This course (2 U, S/N) will be offered again next year if we have at least six students. Please contact Peggy Egli (5-5215) if you'd like further information.

Lab Services will sponsor the Fifth Annual Lab Fest '96 on April 24, 1996 from 10:00 a.m. to 3:00 p.m. at the Radisson Hotel Metrodome on Washington Avenue. This annual event will highlight scientific vendors and University departments with services and products for the UM scientific community. Seminars on new techniques and applications will be held concurrently throughout the day with bag lunch served from 11:30 a.m. to 1:30 p.m. This year's theme is "Environmentally-Sensitive Purchasing" and there will be a 'green' survey to fill out for an opportunity at a \$100 gift certificate to Mega Mall's Rain Forest Cafe. In addition, there will be many other door prizes and \$2,500 in gift certificates for lab supplies at the University Stores, all financed by the participating vendors. See you there!

A reminder that there is a planned shutdown of central steam service for May 1, from 5:00 a.m. to 10:00 p.m. All buildings are connected to central steam and will have some interruption of service.

This outage is necessary for the St. Paul Steam Plant to perform planned maintenance on the boilers. Services affected are central heating and cooling, domestic hot water, dishwashers, sterilizers, autoclaves and any general use of steam for cleaning or humidification. If there are concerns, please call Fred Clayton 624-4940 or Ken Mingo 626-7865.

The St. Paul Campus Retirement Recognition Luncheon will be held on Tuesday, May 21 at the Earle Brown Center. The event is scheduled for 12:00 noon. Tickets for the luncheon are \$6.00 and can be purchased from Nancy Pitzer in Room 42 of the Student Center.

An Information Agriculture Conference will be held July 30-August 1, 1996 at the University of Illinois. This is organized by the Potash & Phosphate Institute and Foundation for Agronomic Research. Research and field practitioners working with precision farming and the use of electronic communications in agriculture are encouraged to participate in the conference and share their work and ideas. Poster Title-Summary Form is due June 8, 1996. Look on bulletin board outside 411 Borlaug Hall for more information

### Greenhouse Users

Leanne will be spraying Talstar + Stirrup M in Teaching 4, 415A7 and 370A5. She has been spraying this for spider mites and it does seem to be working. Talstar is a synthetic pyrethroid which works on the insect's nervous system. Stirrup-M is a controlled release pheromone which improves the performance of miticides. For the next month we will be doing a rotation of Enstar/Mavrik and Enstar/Pentac. We will begin this weekend with Enstar/Mavrik being sprayed in Teaching 4 and 5, 370A1 and 2 and 370C1, 5 and 6 and Weeds 1, 3 and 4. Enstar is an insect growth regulator preventing development of the insect. Mavrik interferes with the insects central nervous system. It also works on the stomach if ingested. Pentac is a miticide.

Pamela Altermatt

### Moving Sale

A Rally 20-inch cut lawn mover (3.75 hp) with bag, also mulches. It is less than two years old and in good working condition. If you are interested in buying it, please contact Maria Gallo-Meagher (5-6228).

### Seminars

April 22 Agronomy, Eric Hoeft, Herbicide Resistant Crops: Systems Perspective, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, & Climate, Ulf Skyllberg, Interactions between Organic Acidity and Aluminum Alkalinity in Scandinavian Forest Soils, 3:00 p.m., 375 Borlaug Hall.

April 23 Plant Biological Sciences Colloquium, Iris Goldstein, Determining the Movement Function of Commelina Yellow Mottle Virus, 3:30 p.m., 335 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF ARKANSAS

Extension Agronomist, Wheat and Feed Grains, Cooperative Extension Service. Ph.D. in agronomy or closely related discipline.

Closing date: June 1, 1996

#### CONWAY & ASSOCIATES

Product Manager in Technical Marketing, Crop Protection Business Unit. Ph.D. in agronomy or plant pathology.

#### KANSAS STATE UNIVERSITY

Pioneer Doctoral Plant Breeding Fellowship, Department of Agronomy. M.S. degree in crop science.

Closing date: May 30, 1996

#### MSI INSURANCE

Claim Representative - Agriculture. Work in commercial casualty department. B.S. in agronomy or animal science.

#### PURDUE UNIVERSITY

Assistant Professor, Department of Horticulture. Tenure-track position. Ph.D. in horticulture, plant science or a related field.

Closing date: July 1, 1996

#### SOUTH DAKOTA STATE UNIVERSITY

Extension Agent, College of Agriculture and Biological Sciences. B.S. degree in an agricultural field.

#### USDA

Summer Employment - Plant Protection Technician. Assist with USDA Biological Control Projects in Minnesota performing monitoring survey, release of insects and general site information gathering.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics

University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

April 26, 1996

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Donald Barnes had bypass surgery yesterday at St. Joseph's Hospital in Marshfield, WI. The surgery went very well. His address is: St. Joseph's Hospital, 611 St. Joseph Avenue, Marshfield, WI 54449-1898.

Faculty,

Thank you for the lunch at the Cherrywood Room for Secretaries Day. We all had a good time.

Judy	Marilyn
Jeanne	Muriel
Lynne	Charlotte
Leanne	Ginger
Holly	Pat
Jean	

Faculty, Staff and Students: You may have noticed that the painters are working in Hayes Hall. This project is a gift from Central Administration. Since we get a gift like this about every 25 years, lets all work to keep the building looking good. One tip - tape removes paint from doors and walls so please advertise seminars by hanging notices on bulletin boards, placing notices in the Gleanings or sending messages by e-mail. Thanks! Jeanne

The University has a discount program which is coordinated by the "Employee Services" office of UMHC, but is open to all University employees. The office is located at Room 537, Boynton Health Services Building, phone 6-3226. Dee Le Mieux is the coordinator of the program, and the office is open Tuesday from 2:30 - 4:30 p.m., and Wednesday, Thursday, and Friday from 11:30 a.m. to 1:30 p.m. A catalog of employee discount programs can be obtained by calling Dee (she will send to you via campus mail). Employee discount programs include entertainment, oil changes, tire stores, child care, hotels, as well as many other things available as a discount to University employees. Once you have received a catalog, Dee can answer any questions on how to get the discounts for a particular program. Sometimes her office has the discount coupons, and other times all that may be necessary is to show your University ID to get a particular discount. There are some exceptional deals available.

## Schedule for Project Seminars:

May 8 - Craig Sheaffer

May 13 - Jochum Wiersma and Robert Busch

May 14 - Deon Stuthman

All seminars will be held at 12:00 noon in 306 Borlaug Hall.

Remember, the Shape Up Challenge starts Monday, April 29. We have lots of people signed up but there is always room for more. Call Lynne Medgaarden at 625-4742 or e-mail at medga001@maroon.tc.umn.edu to sign up or sign up on one of the posters posted at 411 Borlaug Hall, 5th floor hallway Borlaug, 3rd floor Hayes Hall or Crops Research. Remember we will have a double point day on Wednesday, May 1. We will have treats for anyone who shows up at the front door of Hayes Hall to walk at noon on Wednesday. But, you don't have to come there to earn the double points. Just exercise.

People have asked about what counts as points. Pretty much anything that you do with the intent of exercise counts. You have to judge for yourself as to what is intentional exercise and what is physical labor. The point of the challenge is to get you started with an exercise program that is enjoyable for you and something you could continue doing for the long-term. This is not a program to lose weight or become a professional athlete. It's supposed to be a fun event and everyone is encouraged to participate. The Northrup King Development money is sponsoring this event for all people in the department. If you have any questions, please discuss them with NK Committee members - Roger Becker, Lynne Medgaarden, Sue Miller, Ed Schefielbein, or Padma Commuri. Thanks.

## Notice to Graduate Students

Information regarding Summer Tuition Benefits and FICA requirements has been distributed to all graduate students. If you are planning to register for Summer Session, please complete the Tuition Benefits Form and return it to me for submission to the Graduate Assistant Office.

Jeanne

## Greenhouse Users

Monday, May 6 is watering/clean up day in the greenhouse. Everybody needs to sweep. DO NOT sweep your sand/soil, etc. under the benches. Weeds should be cleaned up in 370A1. NW needs to get cleaned out. If you are borrowing space from another project, please be responsible and clean up the space you are using.

NOTE: Please do not tie up greenhouse equipment for extended periods of time. There are many people that use the equipment.

SPRAYING: Enstar + Pentac + Stirrup-M will be sprayed in teaching 4 and 5, 415A7 and 370A5. Talstar + b. sugar will be sprayed in Weeds 1, 3 and 4 and 370C 1, 5 and 6.

Pamela Altermatt

## Symposium

A symposium will be held on Tuesday, May 7 from 8:00 a.m. to 4:00 p.m. at the St. Paul Student Center Theater. This seminar is hosted by the graduate students of Plant Pathology. Speakers will be Neil Anderson, Michael Martin, Francis Webster, Jeff Rosichan, Anthony Strauss, and Jim Orf. The symposium will focus on different aspects of collaborative research between private industry and the land-grant universities. Everyone is welcome.

## Moving Sale Continued

I am selling three items:

- 1) Metal dog barrier - an adjustable screen that fits in the back of a station wagon, 4 x 4, etc. to keep your dog safe and out of your way.
- 2) Heated water dish - keeps your dog's water from freezing.
- 3) A cartop carrier from Sears. Holds quite a bit of clothing, camping supplies, etc.

If you are interested, contact Maria Gallo-Meagher at 625-6228.

## Seminars

April 29 Plant Breeding and Genetics, Olin Anderson (Plant Gene Expression Lab, Albany, CA), Molecular Engineering for Enhanced Protein Quality in Wheat, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, & Climate, Randy Kolka, Relationship Between Hg and Organic Carbon from a Range of Watershed Outlet Waters at the Marcell Experiment Forest, 3:00 p.m., 375 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

MICHIGAN STATE UNIVERSITY  
Assistant/Associate Professor, Department of Horticulture. Tenure-track, 12-month, 75% teaching, 25% research.  
Closing date: June 15, 1996

UNIVERSITY OF MINNESOTA  
Administrative Fellow, Office of International Agricultural Programs. Four-month duration.  
Closing date: May 3, 1996

Research Fellow, Department of Soil, Water, and Climate. M.S. in biochemistry, molecular biology, or related field.  
Beginning date: July 1, 1996

MISSISSIPPI STATE UNIVERSITY  
Executive Director, Agribusiness Institute.  
M.S. in an agribusiness enterprise.  
Closing date: June 15, 1996

NATIONAL FAMILY FARM COALITION  
Program Director. To facilitate efforts to develop strategies that impact state and federal legislation and policies affecting the production, pricing, marketing, and processing of agricultural commodities.  
Closing date: May 10, 1996

UNIVERSITY OF NEBRASKA-LINCOLN  
Systems Analyst, Department of Agronomy. B.S. with major in computer science or related field.  
Closing date: May 13, 1996

NORTH DAKOTA STATE UNIVERSITY  
Area Extension Specialist/Cropping Systems, Dickinson Research Extension Center. M.S. in agronomy, crop production, or weed science.  
Closing date: June 14, 1996

OREGON STATE UNIVERSITY  
Soil Science Graduate Research Assistant, Department of Crop and Soil Science. M.S. candidate.  
Closing date: May 1, 1996

**SPECIAL FACULTY FORUM**  
On Monday, April 29 there will be a Special Faculty Forum from 2:00-4:30 p.m. in 125 AnSci/Vet Med. Building to discuss the BUDGET. All faculty should attend.

# Agronomy Gleanings

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Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
May 3, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Thank you

I would like to thank the Social Committee for putting on my farewell coffee and for the great book on Minnesota's ecological heritage. I would also like to thank everyone who attended the coffee and for their well wishes. The mug I received is terrific. I plan on proudly displaying it in my new office. I wish everyone the best. Please look me up if your travels take you to Florida.

Maria Gallo-Meagher

Graduate Students:

Thank you for the beautiful flowers for the office!! We really appreciate it.

Office Staff

## Announcements

Congratulations to Larry Smith who received the Blue and Gold Award from the State FFA Association. The Blue and Gold is the highest lifetime achievement presented by the FFA for service to youth, education and agriculture. The award was presented on Monday, April 29 at the State Awards Program.

On May 8, 9, and 10, Ag Awareness Days will be held at the Livestock Pavilion on the St. Paul Campus. This event is co-sponsored by the graduate students in Agronomy and Plant Genetics and Animal Science. This event is designed to educate youth about agriculture. Over 850 4-6th graders from the metro area are expected this year. If you would like to help out with this fun event there will be a sign up sheet in 302 Borlaug Hall. There are three sessions each day 9:00-10:30 a.m., 10:45 a.m.-12:15 p.m., and 12:30-2:00 p.m. We need four people for each session. On Friday, May 10 at 5:00 p.m. there will be grilled hamburgers and a party to thank all of those who volunteer. If you have any questions, you can contact Jonathan Shaver or Diana Magarian.

The training program for the Prevention of Violence and Harassment will have a training session for those who were unable to attend the previous sessions. This session will be held on Thursday, May 23, 1996 from 9:00-11:00 a.m. on the St. Paul Campus. Please call 624-7845 to register.

The Undergraduate Life Sciences Research Symposium will be held on Wednesday, May 15 in the Ecology Building of the St. Paul Campus from 1:30-4:00 p.m. Everyone is welcome. Refreshments will be served.

A career development symposium will be held for postdoctoral associates, fellows, research assistants and graduate students entitled "The Job Search: Creating and Presenting a Successful Application." This will be held on Friday, May 17 from 1:00-5:00 p.m. at Coffman Memorial Union, Theater/Lecture Hall. Admission is free, but you must RSVP by May 6. You can e-mail at post-doc@gold.tc.umn.edu or call 626-1435.

There will be two more employee information sessions on the conversion to biweekly payroll. Information on net pay, deductions, loans, and payment schedules will be discussed.

Friday, May 3, 2:00-3:00 p.m., Peters Hall 110

Monday, May 13, 12:00-1:00 p.m., Peters Hall 110

Anyone who is interested in a glassware washing machine and/or a glassware drying cabinet with a heating element, please call Chris Donovan at 625-8107.

Facilities Management has informed me that someone was found sleeping in the greenhouse area. Please try to keep all Agronomy assigned space locked when not in use, and if you see a questionable person in and around the Agronomy area, please call U of M police at 624-3550.

Mike McClellan

## Schedule for Project Seminars:

May 8 - Craig Sheaffer - Forage Crop Development, Utilization and Management.

May 13 - Jochum Wiersma and Robert Busch

May 14 - Deon Stuthman

All seminars will be held at 12:00 noon in 306 Borlaug Hall.

### Accommodation Wanted

Going away for the holidays in August and would you like your house looked after? We would like to rent a house for the last two or three weeks of August. We are very experienced at looking after cats, dogs, birds, gardens, etc. If you are interested, for any part of that time, please contact Kevin Young at 625-9261 or call in 138 Borlaug.

### Greenhouse Users

There won't be any spraying this weekend. Predators were released in most of the houses on Wednesday evening.

Don't forget to clean and water your greenhouses on Monday. This includes removing weeds on your benches or in your pots/containers.

Pamela Altermatt

### Noon Hour Brown Bag Discussion

Shahryar Kianian, Iran - People, History, and Agriculture, Friday, May 10 in 306 Borlaug Hall.

### Summer Field Days 1996

Waseca	Tuesday, June 18
Lamberton	Wednesday, June 19
Morris	Thursday, July 11

### Hamm Lecture

The Philip Hamm Memorial Lecture will be given on Tuesday, May 14 at 4:00 p.m. in 33 McNeal Hall. A reception will begin at 3:30 p.m. Dr. J.S. Heslop-Harrison of John Innes Center, England will speak on "Probing, Priming, and Painting: The Comparative Analysis of Genome Organization."

### Bicycle & Camping Gear Swap

Bring in your gear to sell on Tuesday and Wednesday, May 7 and 8 from 9:00 a.m.-8:00 p.m. Swap Sale Days are Thursday and Friday, May 9 and 10 from 9:00 a.m. to 8:00 p.m. and Saturday, May 11 from 9:00 a.m. to 5:00 p.m. New and used bikes, camping equipment, in-lines skates and sporting goods from individuals and area retailers will be on sale.

### Plant Sale

The Horticulture Club will have their spring bedding plant sale from May 9-11 outside the St. Paul Student Center.

### Seminars

May 6

Agronomy, David Griffin, Multispecies Riparian Buffer Strip Systems, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, & Climate, Alan Hooper, Bacterial Oxidation of Ammonia, 3:00 p.m., 375 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### COLORADO STATE UNIVERSITY

Assistant Extension Specialist, Department of Soil and Crop Sciences. M.S. preferred, 12-month appointment.

Closing date: May 31, 1996

Assistant Professor, Department of Soil and Crop Sciences. Ph.D. in soil science, agronomy, or a related area. Tenure-track, nine-month position, 70% research, 30% teaching.

Closing date: June 10, 1996

#### NORTH DAKOTA STATE UNIVERSITY

Research Associate, Department of Plant Sciences. Non-tenure position, 12-month. Ph.D. in plant sciences, genetics, or related area.

Closing date: May 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Upper Buford Circle, St. Paul, MN 55108 (612) 625-7773  
May 10, 1996

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

**Shape-Up Challenge.** We were number one in average points per employee and third in percent of participants for the first week of the Challenge. KEEP UP THE GOOD WORK! Reminder that Wednesday, May 15 is double points day. Meet in front of Hayes Hall at Noon. Also, May 16 is Minnesota's B-BOP Day. If you walk, bike or run to or from work on that day you may also earn double points.

**Paul Meints**, former graduate student with Dr. Busch has another responsibility! Their family number increased last week with the birth of a bouncy baby boy, Zacharias Paul. Everyone is doing well. For those who want to congratulate them directly, Paul's e-mail is meintsp@css.orst.edu.

**Retirement Luncheon.** Tuesday, May 21, 1996 is the date of the St. Paul Campus Employee Retirement Luncheon to be held at the Earle Brown Center. Please get your tickets by Friday, May 17 from Nancy Pitzer in Room 42, St. Paul Student Center.

**Campus Mail** service will be reduced to once per day beginning July 1, 1996. Although service will be only once per day, all mail will be delivered/picked up in the morning. This will make the new system very predictable. Mail picked up one morning will be delivered the next. We are interpreting "morning delivery" to mean up until 1:00 p.m.

**For Sale.** Commercial Northstar Freeze Dryer for freeze drying plant samples. CONTACT RON GRYPHAN, Amery, WI at 715-268-8584. He has freeze dried samples for projects at the university and would like to give the U first opportunity to buy the equipment.

I recently received notification of students majoring in Animal and Plant Systems who were on the Winter Quarter Dean's List (at least 12 credits with a 3.7 or higher GPA). The following five students are advised by faculty in our department. Ryan Carpenter, Kim Hemmesch, Ryan Lee, Barbara Winger and Lori Ylitalo. Congratulations to all of you.

L.L. Hardman

**Photo Contest of 1996-97 Student-Staff Directory Cover.** A cash prize is offered for photographs submitted for the cover of this directory in which some aspect of student, staff or faculty life at the university is illustrated. For details, call Laurie Ward Gardner at 624-4106.

**OIAP Moved to New Quarters May 6.** The Office of International Agriculture Programs moved to its new location at 190 Coffey Hall on Monday, May 6, 1996. Phone and FAX numbers remain the same.

**Ph.D. Thesis Seminar.** Yield, protein, oil, and oil quality in soybean: comparison of selection indices and methods for adjusting spatial variation in experiments by Boashan Shan, Wednesday, May 15, 1:00-2:00 p.m., 408 Hayes Hall.

### Project Seminars

Monday, May 13, 12:00 Noon, 306 Borlaug Hall. Wheat Breeding and Genetics by Robert Busch and Small Grain Research by Jochum Wiersma

Tuesday, May 14, 12:00 Noon, 306 Borlaug Hall. Oat Breeding and Genetics by Deon Stuthman



### Seminars

- May 13 Soil, Water and Climate, Mark Hoffman, Back to the future: integrated systems for waste water treatment, 3:00 p.m., 375 Borlaug Hall
- May 17 Brown Bag Discussions, Don Wyse, Status of sustainable agriculture in Minnesota, Noon, 306 Borlaug Hall

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### KANSAS STATE UNIVERSITY

Assistant Professor, Alfalfa Breeding/Genetics, 12 month tenure-track position; 90% research, 10% teaching. Ph.D degree in plant breeding or related discipline required.

Closing date: August 18, 1996

#### LOUISIANA STATE UNIVERSITY

Assistant/Associate/Specialist (Agronomy-Cotton Production), Ph.D. in agronomy, crop science, soil science or a closely related field.

Closing date: May 30, 1996

#### UNIVERSITY OF MINNESOTA

Associate Dean of the Graduate School, candidates must currently be a tenured associate or full professor at the University of Minnesota with a terminal degree; full membership on the graduate faculty; at least 1 year of experience as a Director of Graduate Studies or comparable administrative experience; and a demonstrated knowledge of the workings of graduate programs at the University of Minnesota.

Closing date: May 24, 1996

MN CROP IMPROVEMENT ASSOCIATION  
Seed Record Specialist, degree or background in agriculture, horticulture or accounting desirable.  
Closing date: May 24, 1996

#### MONTANA STATE UNIVERSITY

Postdoctoral Research Associate in Soil Physics, Department of Plant, Soil and Environmental Sciences, Ph.D. in soil physics or related field required.

Closing date: June 1, 1996

#### SOUTH DAKOTA STATE UNIVERSITY

Research Assistant, Department of Plant Science, BA in biology or related area.

Closing date: June 28, 1996

#### WASHINGTON, DC

Director, Food and Consumer Economics Division, ES-0110, Career Reserved

Closing date: May 31, 1996

#### WASHINGTON, DC

Director, Natural Resources and Environment Division, ES-0110, Career Reserved

Closing date: May 31, 1996

#### WASHINGTON STATE UNIVERSITY

Soil Scientist/Assistant Professor, 75% research and 25% teaching, Ph.D. in soils or closely related field required.

Closing date: July 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

May 24, 1996

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Katherine and Nordine Cheikh had a baby girl, Nora Elizabeth, on April 29. She joins brother Tarik and sister Amelia! Nordine was a postdoc in Robert Jones' lab. Nordine says that they are all doing well, and even getting some sleep at night. He sends greetings to everyone in the department.

Welcome to Dean Flanders, Users Services Specialist, to the department. He can be reached at: 625-2721 or e-mail: deanf@puccini.crl.umn.edu.

The U of M bookstores have established the Books in Print database. You may use this database to search for a book or publisher, to get help, or to offer feedback to the maintainers. The address is: <http://bip.bookstore.umn.edu>.

The Staff Demographic forms were placed in your mailboxes yesterday. Please complete these forms and return them to Jeanne Davy.

Civil Service Representatives needed to serve on 1996-97 College of Agricultural, Food, and Environmental Sciences Committees. For information on the Curriculum Committee or Faculty Development Committee, call Elise Forrette 624-4212 or for information on the Scholastic Affairs Committee, call Mark Bultmann at 624-2746.

The Institute of International Studies is conducting a competition to support a limited number of travel grants for travel during two specific time periods: Summer 1996 (all travel must take place before August 14, 1996) and Fall 1996 (travel must be taken between August 15 and December 31, 1996). The Institute is accepting applications from University faculty conducting research or presenting the results of research on issues concerning with or related to international studies. Interested faculty may obtain application forms from IIS, 214 Social Science Building, Minneapolis Campus or by calling 624-9007. The deadline for applications is 4:30 p.m., Friday, May 31, 1996.

Ecological Economics Seminar - Timothy Swanson will give a seminar on the St. Paul Campus in connection with the new UM program on ecological economics, Wednesday, May 29 in 495 Hodson Hall, from 4:00-5:15 p.m. The title of his presentation is "Global Food Security and Biodiversity: Property Rights for Plant Genetic Resources."

Campus mail will be delivered and picked up in the morning only because of budget reductions as of July 1. A second daily pick up (2:30 and 4:30 p.m.) can be arranged for a rate of \$5.00 per day from Campus Courier. In addition, strategically located pick-up boxes will be emptied after 4:00 p.m. for delivery the next morning.

The University of Minnesota will be closed on Monday, May 27 for Memorial Day. Have a good weekend!

## Noon Hour Video

Next week there will be two lunch hour video showings of a symposium given during the 1995 ASA meetings in St. Louis, Missouri. The title of the symposium - The Crop Science Revolution, 1950-2000.

On Wednesday, May 29th, the first half of the symposium will be shown. This will include the following talks: Role of Plant Breeding in Increasing Crop Production. K.J. Frey, Iowa State University. Crop Production Advancements - The 1960s and Beyond. J.W. Pendleton, Champaign, IL. Bringing Science-Based Technology to the Third World: The Wheat and Rice Green Revolutions of the 1960s and 1970s. N.E. Borlaug, Texas A&M University.

Then on Thursday, May 30th, the second half will be presented: Biotechnology-from Process to Product. R.L. Phillips, University Minnesota. Biology, Society, and Food Production: New Concepts, Old Realities. D.N. Duvick, Iowa State University. The Evolutionary Revolution: Opportunities and Need for Plant Scientists. P.S. Baenziger, University of Nebraska-Lincoln.

Each talk is about 25 minutes long. Both showings will be held at 12:00-1:30 p.m. in 408 Hayes Hall.

## Notice

To All Agronomy Projects that have field plots in St. Paul:

Please make sure you clean all stakes, wire flags, and equipment off the roadways to prevent damage to the mowers!!!!

Mike McClellan

## Greenhouse Users

Don't forget there is another clean up/watering Monday coming up on June 3rd.

REMEMBER: All projects are responsible for their own insect control during the summer.

Pamela Altermatt

## Noon Hour Brown Bag Discussion

Padma Commuri, Agronomy and Plant Genetics  
Graduate Curriculum to Semesters, Friday, May 31  
in 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF GEORGIA

Ph.D. assistantship in soil physics, Crop and Soil Sciences Department.

### KANSAS STATE UNIVERSITY

Extension Assistant, Department of Agronomy, Crop, Soil, and Range Science. M.S. and farm or ranch background required.

Closing date: June 1, 1996

### LOUISIANA STATE UNIVERSITY

Assistant/Associate Professor, Agricultural Experiment Station. Ph.D. in agronomy, crop science or closing related field.

Closing date: September 1, 1996

### MYCOGEN SEEDS

Research Assistant in Olivia, MN. Position requires a B.S. in agronomy, plant breeding, entomology, or plant pathology.

### OREGON STATE UNIVERSITY

Graduate Research Assistantships, Department of Crop and Soil Science.

### POPULATION ACTION INTERNATIONAL

Research Associate, Population and Environment Program. Sustained interest and experience in population, environmental and international development issues.

### THE J.C. ROBINSON SEED CO.

Research Information Manager. Upgrade and support the data collection, analysis and retrieval systems of a corn breeding network. Located in Waterloo, NE.

Research Agronomist in Estherville, IA. B.S. or M.S. in agronomy. Good oral and written communications skills, computer skills and self-motivation.

### VIRGINIA TECH

Soybean Specialist, College of Agriculture and Life Sciences. Ph.D. in agricultural science and experience in soybean production. Twelve-month, tenure-track position.

Closing date: July 1, 1996

### UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Agent. M.S. in agriculture related field.

Closing date: June 10, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

May 31, 1996

MW  
9/19/80

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Jean Swanson who was the winner of a gift certificate to Lido's Restaurant for the 4th week of the Shape Up Challenge. The third week's winner was Lee DeHaan who won a \$20.00 gift certificate to Rainbow Foods.

A Special Lunch Seminar will be held on Wednesday, June 5 from 11:30-12:30 in 306 Borlaug Hall for the Shape Up Challenge. Christine Greening, Exercise Physiologist will speak on "Exercise: Just Move!" A sign up sheet is available in 411 Borlaug Hall. A giant subway sandwich is being ordered for lunch.

The Barley Project is looking for someone to take five boxes to Morris in the next few days. Contact Ed at 5-0250.

For Sale: Nitrogen/Crude Protein Kjeltac 1030 Autoanalyzer in good working order. Includes 20 sample digestion block and exhaust manifold. Contact Kori Leske at 625-1959 or Dr. Craig Coon at 624-6263.

## Special Seminar

Andrew Lenssen, Isoflavonoids in Forage Legumes: Photosensitizers, Monday, June 3 at 3:00 p.m. in 306 Borlaug Hall. Dr. Lenssen currently is a Research Assistant Professor, Department of Entomology, Montana State University. Candidate for the Alfalfa Breeding Position.

## Public Seminars

Three seminars will be given by candidates for Associate Dean for Research and Assistant Director of the Minnesota Agricultural Experiment Station, College of Agricultural, Food, and Environmental Sciences. The topic will be on Integrating Research into the 21st Century at COAFES.

Gary Gardner, Tuesday, June 4 at 9:00 a.m., 62 Earle Brown Center.

Gary Lemme, Wednesday, June 5, 9:00 a.m., 35 Earle Brown Center.

Philip Larsen, Thursday, June 6, 9:00 a.m., 35 Earle Brown Center.

Everyone is invited to attend these seminars.

## Greenhouse Users

Don't forget everybody needs to SWEEP and water on Monday, June 3. The greenhouses are actually looking pretty good. Thanks for your help!

Everybody check your lights--do they need to be on?  
Pamela Altermatt

## Noon Hour Brown Bag Discussion

Deon Stuthman, Research Collaboration Opportunities "Down Under" - A Pictorial Guide, Friday, June 7 in 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF ARKANSAS

Assistant/Associate Professor, Rice Research & Extension Center. Ph.D. in crop science with emphasis in crop production systems, non-tenure track.

### UNIVERSITY OF MISSOURI

Associate Professor or Professor, Endowed Professorship in Soybean Technology, Department of Agronomy. Ph.D. in a plant science area related to plant biotechnology, tenure-track, nine-month appointment, 80% research and 20% teaching.

Closing date: September 10, 1996

### NORTHEAST MISSOURI STATE UNIVERSITY

Assistant Professor, Division of Science. Ph.D. in agronomy, tenure-track, nine-month appointment. Interest in forage crops and agricultural ethics is desirable.

Closing date: July 1, 1996

### SOUTH DAKOTA STATE UNIVERSITY

Research Associate/Research Assistant, Plant Science Department. M.S. or B.A. in agronomy, horticulture or a related field.

Closing date: July 1, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 7, 1996

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## Pedestrian Crosswalk

The state now has a law that protects pedestrians at crosswalks. If you are a pedestrian at the crosswalk, motor vehicles must now come to a full STOP if you are in the crosswalk. If you are a driver, disobeying this law can cost you up to \$700 and 90 days in jail, and a second violation can cost up to \$3,000 and a year in jail.

This affects most everyone in this department. Located at Gortner and Dudley Avenue (on the street directly in front of Hayes Hall) there are two crosswalks. Many individuals from this department in either departmental or personal vehicles have been observed to disregard these crosswalks and drive through them while pedestrians are attempting to cross this busy street.

This is a big problem for students and individuals who park in the contract lots or work in buildings that require crossing Gortner Avenue. Everyone needs to make an extra effort to STOP for pedestrians trying to cross in these crosswalks. The crosswalks currently need painting, but the signs are present indicating their locations. Next time you see someone attempting to cross the street, STOP and allow them to cross safely. This is the law that licensed drivers in Minnesota are expected to obey.

Agronomy Safety Committee

## **Announcements**

Congratulations to Vernon Cardwell who has been awarded the Crop Science Society Teaching Award for 1996. This award will be presented to him in Indianapolis at the ASA meetings in November.

Congratulations to Howard Rines who was awarded Fellow from CSSA.

The Agricultural Utilization Research Institute request proposals for the Pesticide Reduction Options Program Round IV Funding. Under this program, eligible Minnesota organizations may apply for grants of up to \$30,000 to fund projects which minimize use of and contamination from pesticides on Minnesota farms. Preproposals will be accepted through August 16, 1996. Invited full proposals will be due October 21, 1996. See Jeanne for details.

Spring Round Table Discussion for Civil Service and Bargaining Units will be held on Tuesday, June 18 from 2:00-4:30 p.m. at 233 McNeal Hall.

Laurie Rockne, Human Resources Consultant, will speak on "Why Do I Feel So Crazy and What Can I Do About It?"

After June 14, students can find out their grades by calling the Gopher Student Line at 624-5200.

Overall GPA and total credits earned are also available. Grades will not be mailed this spring.

A major project will begin at the Student Center replacing the underground roofing membrane where the Bookstore and Outdoor Store are located. Buford Avenue in front of the Student Center will be closed from June 10 until the beginning of September.

During this major project, both the Student Center and Coffey Hall will remain accessible, and the contractors will be attempting to keep noise at a minimum. Buses will continue to pick-up and drop-off passengers at the Student Center at their current locations.

On Wednesday, June 12, please visit the Terrace Cafe and receive a free soda or coffee, courtesy of the St. Paul Bookstore, Terrace Cafe and the Student Center.

## **Special Seminars**

JoAnn Lamb, Response to Two Cycles of Divergent Selection for Root Morphology in Alfalfa, Monday, June 10 at 9:00 a.m. in 306 Borlaug Hall. Dr. Lamb currently is a Research Associate, Department of Agronomy. Candidate for the Alfalfa Breeding Position.

Mark Farnham, Evaluation and Ploidy Determination of Anther-Derived Broccoli, Thursday, June 13 at 9:00 a.m. in 306 Borlaug Hall. Dr. Farnham currently is a Research Geneticist, USA-ARS, U.S. Vegetable Laboratory, Charleston, SC. Candidate for the Alfalfa Breeding Position.

## **Ph.D. Final Exam**

Russel M. Pinnisch, Inbreeding Depression in the Selfed Progeny of F<sub>1</sub> Hybrids Between Northern Flint and Corn Belt Dent Populations of Maize, Friday, June 14 at 1:00 p.m. in 306 Borlaug Hall.

### Coffee

A going away coffee for Russell Pinnisch will be on Monday, June 17 at 9:30 a.m. in 306 Borlaug Hall.

### Greenhouse Users

CHECK your greenhouse lights.

I don't believe anybody swept their greenhouses and some of them need it!!

I would like to start steaming and disinfecting greenhouses in the next couple of weeks so those of you who have empty houses, please get them as cleaned up as possible as soon as possible.

Please get all personal plants out of the greenhouse by next week.

Thanks!!  
Pamela Altermatt

### Noon Hour Brown Bag Discussion

Dale Hicks, Variety Choices for my Farm, Friday, June 14 in 306 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### AUBURN UNIVERSITY

Extension Specialist, Department of Agronomy & Soils. Ph.D. in turfgrass science.

Closing date: June 21, 1996

#### COLORADO STATE UNIVERSITY

Assistant Professor in molecular plant breeding, Department of Soil and Crop Sciences. Ph.D. in plant breeding or crop sciences. Tenure-track faculty position (70% research and 30% teaching).

Closing date: August 1, 1996

#### UNIVERSITY OF MINNESOTA

Education Coordinator, Water Center. M.S. with emphasis in water resources related field.

Closing date: June 21, 1996

#### PURDUE UNIVERSITY

Assistant Professor, Turfgrass Extension Specialist, Department of Agronomy. Ph.D. in agronomy, horticulture or related field. Tenure-track with extension, research and teaching responsibilities.

Closing date: September 1, 1996

Assistant Professor, Maize Genetics and Breeding, Department of Agronomy. Ph.D. in plant genetics with emphasis on quantitative genetic training. Tenure-track.

Closing date: August 15, 1996

#### SOUTH DAKOTA STATE UNIVERSITY

Senior Research Assistant, Plant Science Department. M.S. or B.S. in biological science.

Closing date: June 30, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 14, 1996

MW  
g Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Nadiya Al-Saady on her new baby boy born on Saturday, June 8 at 2:45 p.m. Sammie weighed 6 lb. 15 oz.

Nadiya has also successfully completed her M.S. Thesis Defense.

Congratulations to Padma Commuri and Jonathan Shaver who were awarded Doctoral Dissertation Fellowships for 1996-97 from the Graduate School.

Congratulations to Mark Galatowitsch who won a \$20 gift certificate to Sportmart for the fifth week of the Shape Up Challenge and to Michael Peel who received a \$20 gift certificate to Panino's Restaurant for the sixth week of the Shape Up Challenge.

The BGG's were the winners of the grand prize of the pizza party for the team having the most overall points.

Hurrah, a hallmark paper --The last issue (May-June) of Crop Science has an excellent article titled "Plant Breeding, an Evolutionary Concept" by Donald DuVick. It attributes plant breeding gains to art and experience. Parts of it ought to be required reading for everyone.

Don Rasmusson

Radioisotope Lab Users (529 Borlaug Hall) -- Annual Refresher Session will be held on Monday, June 17 at 9:00 a.m. in 408 Hayes Hall. This is required for anyone planning to use 529 Borlaug Hall within the next year. Kathleen (517 Borlaug Hall)

Summer Field Days will be held at Waseca on Tuesday, June 18 and at Lamberton on Wednesday, June 19.

An Open House for the new offices of the Agricultural Experiment Station and the Office of International Agricultural Programs will be held on Thursday, June 27 from 3:00-4:30 p.m. in 190 Coffey Hall. Come see our new space! Refreshments will be served.

The Agronomy fishing and outdoor leisure trip will be held this weekend at Cedar Springs Lodge on Leech Lake. There will be a fishing contest with many fishing prizes and the beautiful traveling trophy will be given out. Good luck to all!!

If you place any UPS packages in the mail room to be sent out, you need to call the post office at 5-8284 to inform them that you have a package to be picked up. If you do not call, they will not pick it up.

Reminder that starting July 1, one pick-up and one delivery per day for the campus mail in the morning.

## Special Brown-Bag Discussion

Dr. Stuthman will present his talk, Research Collaboration Opportunities "Down Under" - A Pictorial Guide, again on Monday, June 17 in 306 Borlaug Hall at 12:00 noon.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF MINNESOTA

Research Associate in Molecular Genetics/Plant Physiology, Department of Forest Resources. Full or part-time. One-year term with the possibility of renewal. Ph.D. in biological sciences.

Closing date: July 1, 1996

Research Fellow - Molecular Genetics, Department of Forest Resources. M.S. in biological science.

Closing date: July 4, 1996

### NORTH DAKOTA STATE UNIVERSITY

Assistant or Associate Professor in Small Grains, Department of Plant Sciences. Ph.D. in agronomy or crop science, tenure-track, 12-month position, 100% extension.

Closing date: August 1, 1996

### UNIVERSITY OF TENNESSEE

Parker Chair of Excellence in Agriculture and Natural Resources. Ph.D. in an agricultural, natural resources management or related discipline. Nontenure-track, 12-month.

Closing date: August 1, 1996

### VIRGINIA POLYTECHNIC INSTITUTE and STATE UNIVERSITY

Assistant/Associate Professor, Soybean Specialist, College of Agriculture and Life Sciences. Ph.D. in a relevant agricultural science. Tenure-track, 12-month appointment.

Closing date: July 1, 1996

# Agronomy Gleanings

MW  
8/19/86a

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 20, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Scott and Jodi Erickson on their new baby girl. They have named her Siri. She joins big brother Levi.

Congratulations to Phil Larsen who has been appointed to Associate Dean of Research in COAFES. He will be starting July 1, 1996.

Please welcome to the department, Darrell Cox, Education Specialist working with Craig Sheaffer and Stephen Temple, Postdoc working with Carroll Vance.

The annual Agronomy fishing trip was held on June 14-16 on the southern shores of Leech Lake. Although the numbers of attendees were down, the fun and comradeship were as high as usual. We had campfires each evening and a wonderful fish fry Sunday morning. Congratulations to Eric Ristau for winning the traveling trophy for best fisherman. Eric caught the most fish, one of which was a 29 inch / 7 pound walleye which he released. Eric was unanimously elected next years chairperson. Doug Miller was the winner of a beautiful new walleye rod for catching the most poundage of walleyes. The rod was generously donated by Burger Brothers / Holiday Sports. In addition, \$25 of fishing tackle was donated by Reid's Tackle of Walker for children's prizes. A final thanks to Art Killam who took over as chairperson for Scott Erikson and was able to obtain the donated prizes. Doug Miller

The Minnesota Landscape Arboretum is pleased to offer free admission to students, staff and faculty in the Colleges of Agricultural, Food and Environmental Science and Architecture and Landscape Architecture. The Arboretum is located on Hwy. 5, 1/4 mile west of the intersection of Hwys. 5 and 41 in Chanhassen. When you arrive at the Gatehouse, show them your U card and tell them you are in the COAFES or Arch&LA and they will waive the \$4.00 gate fee. This doesn't extend to guests visiting with you. This offer is good from June 1996 to May 1997. Call 443-2460 for more information.

The CGIAR international center group now has a very good Web site, containing descriptions of the centers, connections, etc. Address: <http://www.cgiar.org> Les Everett

Animal Science and Vet Med Faculty and Graduate Students: The new NRC Nutrient Requirements for Beef Cattle (7th Revised Edition, 1996 is now available for \$29.95). In connection with this new release, a National Satellite Symposium and Computer Application Workshop will be held on Tuesday, June 25 and Wednesday, June 26 at the St. Paul Student Center. The cost of the symposium is \$75.00. This includes a copy of the book, software, breaks and meals. If you are interested in attending the symposium, please contact Alfredo DiCostanzo at 4-1272.

## NOTICE

The Minnesota Department of Agriculture has inspected the Pesticide Storage Facility and has found that we are in violation of state regulations for storing chemicals.

We only have a short period of time to correct these violations. The Minnesota Department of Agriculture will be back to check to see if we have complied. If not, we will be fined and this will be passed onto the projects that have not complied with the following changes.

All chemical containers need to be properly labeled with the original label or a copy of the original label. This means all original containers and non-original containers.

If this is not done, all improperly labeled chemical containers will be automatically sent to Environmental Health for disposal.

All chemicals that are two-years old or older and leaking chemicals, will be sent to Environmental Health for disposal.

Check your Chemical Container labels and the age of your chemicals that you are responsible for by **July 1**. Place the discard chemicals in Cage 12 for Environmental Health for pick up.

Any questions, call Mike at 4-5395.



### Network News

A computer virus has been found in the department that effects computers running DOS and Windows, if you are using a Macintosh it will not affect you. It is not a harmful virus, just very annoying. There is a free anti-virus program that will detect the virus and remove it. The disk for this can be picked up in 411 Borlaug Hall, from the front desk. Instructions will be on the disk, install the software onto your computer and please return the disk. In the coming weeks I plan to have a more extensive plan for preventing computer virus problems on the computers in the department. Any questions call 625-2721 or e-mail deanf@puccini.crl.umn.edu.

Dean Flanders

#### Grants Awarded:

Burle G. Gengenbach and Susan M. Wick - Fellowship Program in Plant Biotechnology, \$108,000 from 9/1/95-8/31/00.

Carl J. Rosen, Satish C. Gupta, and Craig C. Sheaffer - Winter Wastewater Environmental Monitoring Study, \$364,000 from 12/21/95-2/1/99.

Nevin D. Young and James H. Orf - Cyst Nematode Resistant Soybeans with Traditional Breeding and Molecular Mapping Techniques, \$105,100 from 5/1/96-4/30/97.

Ervin Oelke - Creating a Rural Technology Development Center, \$90,000 from 9/14/95-9/30/96.

Donald L. Wyse, James H. Orf, and Nicholas Jordan - Minnesota Soybean Research and Promotion Council, \$49,441 from 5/1/96-4/30/97.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF MINNESOTA

Assistant Professor in potato genetics and breeding, Department of Horticultural Science. Ph.D. in horticulture, plant breeding or genetics, tenure-track, 12-month, 70% research and 30% teaching.

Closing date: September 30, 1996

#### MYCOGEN SEEDS

Research Assistant in Olivia, MN. B.S. in agronomy, plant breeding, entomology or plant pathology.

#### UNIVERSITY OF NEBRASKA-LINCOLN

Research Technologist I (part-time), Department of Agronomy. B.S. in agricultural sciences or related field.

Closing date: June 28, 1996

#### PURDUE UNIVERSITY

Assistant Professor, Department of Agronomy. Ph.D. in plant genetics with emphasis on quantitative genetic training and skills. Tenure-track.

Closing date: August 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

June 28, 1996

MW  
e Ag 76a

The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.

## Announcements

Please welcome to the department, Françoise Faraut, Isabelle Dominguez, Nathalie Vignaux, and Nathalie Delee. They are students from France who will be working with Deon Stuthman, Howard Rines and Burle Gengenbach. They will be here for two months.

The University of Minnesota will be closed on Thursday, July 4 for Independence Day.

Darleen Swanson, Administrator in Soils, will be retiring at the end of July. Her husband Bert has accepted a position with a private nursery in northern Minnesota. Darleen has been with the University for 36 years. A combined reception for Darleen and Bert will be held on Friday, July 19.

## Greenhouse Users

Next Monday is a sweeping/watering day. Everybody please sweep your greenhouses.

Please remove all old plant materials from the greenhouses. They are hosts for insects.

Next week I will start disinfecting the empty greenhouses, if they are clean. Remove anything you don't want to get wet and your greenhouse should be swept out. Thanks!

Pamela Altermatt

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA  
Endowed Chair in Desert Agriculture, College of Natural and Agricultural Sciences. Teaching 25% and 75% research appointment.

Closing date: September 1, 1996

CENTER FOR RURAL AFFAIRS  
Program Director in Walthill, Nebraska. Responsibilities include developing and implementing programs, hiring, and supervising.

COMMITTEE FOR SUSTAINABLE  
AGRICULTURE (St. Martin, CA)  
Development Director. B.S., Full-time, knowledge of fund-raising techniques, excellent writing skills.

## KANSAS STATE UNIVERSITY

Research Assistant, Grass Breeding Program, Department of Agronomy, Crop, Soil, and Range Sciences. M.S. in agronomy, plant science or related discipline.

Closing date: July 26, 1996

## UNIVERSITY OF KENTUCKY

Assistant/Associate Professor, Department of Agronomy. Ph.D. in soil science or closely related field. Twelve-month appointment, 50% teaching and 50% research.

Closing date: August 30, 1996

## LAND STEWARDSHIP PROJECT

S.E. Minnesota Director located in Lewiston, MN. Administrative experience with non-profit organizations.

## UNIVERSITY OF MINNESOTA

Applications Programmer, Minnesota Center for Survey Research. Programming for SPSS and Computer Assisted Telephone Interviewing.

## OREGON STATE UNIVERSITY

Faculty Research Assistant, Cereal Variety Testing, Department of Crop and Soil Science. B.S. or M.S. in agronomy, crop science, plant science or related field.

Closing date: July 15, 1996

## SEATTLE P-PATCH

Community Garden Coordinator. Assists neighborhoods in Seattle's low-income housing projects in the development of both community and market gardens.

Closing date: July 5, 1996

## SOUTH DAKOTA STATE UNIVERSITY

Extension Agent, Cooperative Extension Service. B.S. in an agricultural field.

Closing date: July 23, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 5, 1996

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## Announcements

Congratulations to Blair and Lisa Waldron on their new baby boy. Connor Douglas was born on Tuesday, June 25 weighing 7 lb. 6 oz.

Thanks for the flowers (Department) and the card (Grad Students). Mom and Baby are doing great.  
Blair & Lisa Waldron

Congratulations to Robert Roeven and Laura Duda who were married on Saturday, June 29 in Illinois.

Dave LeGare is looking for an undergraduate student worker. Please notify him (5-1784) by Tuesday, July 9 so he can set up an interview. He needs someone right away.

You are invited to celebrate the retirements of Darleen and Bert Swanson on Friday, July 19 at 2:00 p.m. at the Atrium of McNeal Hall on the St. Paul Campus. Everyone is invited to come.

The North Central Experiment Station announces housing available on campus for visiting faculty and/or graduate students. Single occupancy is \$15/person for the first day and \$10/person for the remaining days; double occupancy is \$10/person for the first day and \$7.50/person for the remaining days. Room charges can be paid by cash, check or JVED to your department accounts. A complete kitchen is furnished. There are also four computer work stations set up for your use. Please call Linda or Faye at 218-327-4490 for reserving the dates you will be in the area.

Any Department of Agronomy and Plant Genetics bargaining unit or civil service employees who have celebrated University milestone anniversaries of 20 years or more during the past two years (20, 25, 30, 35, 40, or 45) should contact Jeanne Davy by July 15.

Effective July 1, 1996, 24-hour staffing of parking ramps will be discontinued. The hours eliminated are part of a response to budget cutbacks. The reduction in staffing will not restrict access to the facility. For your personal safety, please use the Escort Service by calling 624-WALK.

## Graduate Students

Effective Fall 1996, \*all\* Graduate School students will be required to register in the Graduate School \*at least once per year\*. (This is a change in existing policy, which requires registration in the Graduate School once every two years.)

It is critical that all students are informed of this change, as students who fail to register annually will be considered to have withdrawn, and their files will be deactivated. Deactivated students may not register for courses, take examinations, submit degree program or thesis proposal forms, file for graduation, or otherwise participate in the University community as Graduate School students. Those who wish to resume graduate work must request readmission to the Graduate School by filing the Change of Status/Readmission Form (\$40 fee). If readmitted, students must register in the Graduate School the quarter of readmission to regain their active status.

## Experiment Stations

Ag Professional Field School, July 9-10, Southern Experiment Station

Summer Station Day, July 11, West Central Experiment Station

Sugar Beet and Small Grain Weed Control Tours, July 11, 1:30 p.m., Northwest Experiment Station

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA, DAVIS  
Research Manager, Department of Vegetable Crops. Ph.D. in agronomy, ecology or related field.  
Closing date: July 21, 1996

KANSAS STATE UNIVERSITY  
Assistant Professor, Department of Agronomy.  
Ph.D. in soil science with emphasis in soil fertility/nutrient management.  
Closing date: September 6, 1996

MICHIGAN STATE UNIVERSITY

Assistant/Associate Professor, Department of Crop and Soil Sciences. Ph.D. in turfgrass management/physiology. Tenure-track, 70% research, 30% teaching.

Closing date: October 1, 1996

PURDUE UNIVERSITY

Department Head for Botany & Plant Pathology. Ph.D. in plant science, be eligible for tenure at the rank of professor, and have professional experience related to departmental programs.

Closing date: September 1, 1996

THE SAMUEL ROBERTS NOBLE FOUNDATION, INC.

Four staff positions and four support positions are being created. Forage Grass Breeder with expertise in both classical and molecular breeding; Molecular Biologist and a Tissue Culturist, both with experience in monocot systems; Ruminant Nutritionist will evaluate digestibility and other characteristics of forage materials.

STEPHEN F. AUSTIN STATE UNIVERSITY

Associate Director, Department of Agriculture. M.S. in soil fertility.

Closing date: July 22, 1996

UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Agent, Cooperative Extension. M.S. in agriculture.

Closing date: July 29, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

July 12, 1996

MW  
Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A reception will be held on Wednesday, July 24 from 3:00-5:00 p.m. in the North Star Ballroom of the St. Paul Student Center for employee recognition. Years of service for 20, 25, 30, 35, 40, and 45 years will be honored. Regents, central administrators, and civil service staff will be present.

The CAMPUS mailbox that is outside of Borlaug Hall (by the side entrance) will have a mail pick up at 3:30 p.m. everyday. The campus mail is delivered only once a day to our department in the morning around 9:30 a.m.

## CAMERA MISSING

The Agronomy Teaching Lab is missing the camera used on the copy stand. Would the individual who borrowed it, please return it immediately.

The paper cutter is also missing and should be returned immediately.

Also, many slide trays belonging to the Teaching Lab are relocated through the department. Please return -- we do not have any available for checkout. Thank you.

Someone borrowed our K-TRON scales two-three months ago and did not return it. I need it back. It is in a light blue STOWAWAY storage box. Please look around, you have probably forgotten about it.

Brad Kinkaid (5-6717)

## Grants Awarded

Helene Murray - Comprehensive Educational Program for "Training the Trainers," \$108,905 from 10/1/95-9/30/96.

Dave Somers, Don Wyse, and Nick Jordan - Cover Crops - A New Seed Industry for MCIA, \$20,000 from 3/15/96-3/14/97.

## M.S. Thesis Defense

Todd Pester, Quantifying Soybean Weed Competitiveness in Greenhouse and Field Experiments, Thursday, July 18 at 9:00 a.m. in 306 Borlaug Hall.

## Bi-Weekly Payroll

The Current Bi-Weekly Payroll Implementation Information is now available on Gopher. The Bi-Weekly Payroll Implementation information may be found in the Academic Policies and Procedures Manual (for academic staff), or in the Non-Academic Staff Policy Memoranda section on Gopher (for non-academic staff).

Home Gopher Page

U of M Campus Information

University-Wide Policy & Procedures

Human Resources

Academic Policies and Procedures Manual or

Non-Academic Staff Policy Memoranda Section

For those of you who access internet information via a WWW client (MacWeb, Mosaic, Netscape, etc.), the URL is <gopher://mailbox.mail.umn.edu:70/1>. You will then have to click on \*\*HR Policies, Rules and Contracts and then proceed as above.

If you should have any questions regarding the interpretation of these policies, please contact your unit Human Resources Administrator. If you have questions regarding the access or availability of HR Policies on the Internet, please call Nan (625-9872) or Connie (625-3373).

## Greenhouse Users

REMINDERS: Projects are responsible for their own insect control until fall.

Clean up behind yourself, especially in the head house.

August 2 is a greenhouse clean up/watering day-mark your calendars.

Some of you didn't even remember to water on July 1. The greenhouses are looking pretty good but they can always use a sweeping.

Building 423 (small grains greenhouse): TURN OFF LIGHTS WHEN YOU ARE FINISHED WORKING IN AN AREA. Thanks.

Pamela Altermatt

## Graduate Students

### Doctoral Residency Requirement:

Effective Fall 1996, the present seven-quarter residency requirement will be eliminated. This policy change will effect all incoming and current doctoral students.

### New Registration Requirement:

Effective Fall 1996, all graduate students will be required to register in the Graduate School at least once per year. Students who fail to register annually will be considered to have withdrawn and will have to apply for readmission (application fee: \$40.00).

### Tuition Remission for Graduate Assistants:

Tuition reimbursement will be limited to tuition costs for a maximum of 12 credits per quarter (Fall, Winter, and Spring) and for a maximum of 6 credits per Summer Session. Costs for any additional credits taken in a given quarter will not be reimbursed. NOTE: A manual adjustment will be made by the Graduate Assistants Office for professional degree programs that set their own tuition schedule. The cap for these programs will be at the top of their full-time tuition band.

FICA is not charged for graduate assistants who are full-time students and who work no more than 20 hours per week. The typical appointment is called 50% and is considered to be 20 hours per week. Full-time students are defined as those registered for at least seven credits per quarter during the regular school year and a total of six credits during the two summer sessions. FICA exemption is extended through the breaks between quarters provided the graduate assistant is registered for the term immediately preceding or following the break period and does not work more than 20 hours per week.

## Experiment Stations

Small Grain Tour is scheduled for Tuesday, July 16 at the Northwest Experiment Station beginning at 8:30 a.m.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF CALIFORNIA

Assistant/Associate Professor and Assistant/Associate Weed Ecophysiologicalist, Department of Vegetable Crops. Ph.D. in a plant science discipline.

Closing date: October 1, 1996

### LOUISIANA STATE UNIVERSITY

Assistant/Associate Professor, Northeast Research Station. Ph.D. in weed science, agronomy, plant pathology or plant physiology.

Closing date: August 15, 1996

### UNIVERSITY OF MINNESOTA

Associate Program Director, Precision Ag. Center, Department of Soil, Water, and Climate. MBA and a minimum of one year experience in precision agriculture.

Closing date: July 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 19, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Emily Moelling and Martijn van de Mortel who will be married on Saturday, July 27 in Quincy, IL.

The retirement party for Darlene and Bert Swanson is today from 2:00-4:00 p.m. in the Atrium of McNeal Hall. Everyone is invited.

A faculty meeting will be held on Monday, July 22 at 1:00 p.m. in 306 Borlaug Hall.

## Greenhouse Users

MONDAY, AUGUST 5TH IS A SWEEPING/  
WATERING DAY!!

HONOR ROLL: Carroll Vance's greenhouse crew has done a good job at maintaining their space.

Most of you didn't sweep in July and some of you didn't even remember to water. Fines will be issued in August.

Those of you who are borrowing space from another project are responsible for the space you are using.

A good guideline for working in the greenhouse:  
CLEAN UP BEHIND YOURSELF!! This includes filling pots, planting, harvesting and dumping material. Pots and flats should not be left in the greenhouses.

Pamela Altermatt

## MISSING

The Agronomy Teaching Lab is missing the camera used on the copy stand. Would the individual who borrowed it, please return it immediately. Thank you.

Also, the paper cutter is still out in someone's office/lab and needs to be returned.

Slide trays should be returned immediately.

## Experiment Stations

North Central Experiment Station - Centennial Open House, July 19-20.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF GEORGIA

Assistant Professor, Department of Crop and Soil Sciences. Tenure-track, 100% research. Ph.D. in agronomy, crop physiology, or crop management. Closing date: August 15, 1996

### UNIVERSITY OF MINNESOTA

Human Resources Specialist, Minnesota Extension Service. Temporary, full-time assignment beginning August 16, 1996 and ending May 31, 1997. M.S. required. Closing date: July 30, 1996

### KANSAS STATE UNIVERSITY

Research Assistant and Manager of the Rocky Ford Turfgrass Research Center, Division of Horticulture. M.S. or B.S. in horticulture. Closing date: July 29, 1996

### NEW MEXICO STATE UNIVERSITY

Superintendent, Agricultural Science Center. Ph.D. in agriculture or related field. Closing date: August 15, 1996

Assistant Professor, Department of Agronomy and Horticulture. Ph.D. in agriculture or related field. Tenure-track, 40% administrative, 60% research. Closing date: August 15, 1996

### OREGON STATE UNIVERSITY

Manager of Seed Testing Laboratory, Department of Crop and Soil Science. M.S. or Ph.D. in seed technology, seed science, crop science, agronomy or closely related field. Closing date: August 9, 1996

# Agronomy Gleanings

M/W  
Ag 86a

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 26, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### Thank You

I would like to thank those of you who contributed to a retirement gift for me. I believe that Crookston sought some advice from my wife Carole and as a result I received a Weber grill, a hand-carved Canada goose decoy, and a computer software package for learning spanish. The decoy is the item I will appreciate most; all I have to do is look at it. I was in the market for a new grill and I have this long-term goal of learning spanish. Your thoughtfulness is appreciated.

Bob Stucker

### Announcements

The 1996-97 St. Paul White and Yellow Pages will be delivered on Tuesday, July 30 to 411 Borlaug Hall. One new St. Paul phone book will be left for every old St. Paul phone book left for recycling. Please place your old phone books outside 411 Borlaug Hall by 8:00 a.m. by July 30. Sign your name on the sheet taped to the window.

Improve your public speaking. Toastmasters International is a non-profit organization dedicated to communication excellence. Participation in a local Toastmasters club is an effective and inexpensive way to develop your public speaking skills in a non-threatening, supportive environment. Dialoggers Toastmasters Club meets every Thursday from 11:30 to 12:30 in the back half of the 2nd floor conference room of the North Central Forest Experiment Station (just north of the water tower). Visitors are always welcome. For more information, call Dave Bengston at 649-5162 or Russell Rasmussen at 625-8170.

### UNIVERSITY OF ARKANSAS

Research Specialist in Crop Physiology, Agronomy Department. B.S. or M.S. in plant or crop physiology.

Available immediately

### KANSAS STATE UNIVERSITY

Director, Kansas Center for Agricultural Resources and the Environment, College of Agriculture. Ph.D. and professor rank in a field related to agriculture and the environment.

Closing date: September 16, 1996

### UNIVERSITY OF NEBRASKA-LINCOLN

Graduate Research Fellowship/Assistantship in Plant Breeding and Genetics. M.S. or Ph.D. students.

Available: May 1997

### NORTH CAROLINA STATE UNIVERSITY

Assistant Professor, Department of Crop Science. Ph.D. in agronomy, crop physiology or related biological science. Tenure-track, 12-month appointment, 60% academic and 40% extension.

Closing date: October 15, 1996

### TERME DI CARACALLA (Rome, Italy)

Plant Production and Protection Officer. Ph.D. in agronomy and/or crop science, five years experience, working knowledge of English or French.

Closing date: August 13, 1996

Senior Agricultural Research Officer. Ph.D., familiarity with issues pertaining to food security, environment and sustainable development, working knowledge of English, French or Spanish.

Closing date: August 12, 1996

### USDA-ARS

National Program Leader (Oilseeds and Plant Bioscience), Plant Sciences Staff, at Beltsville, MD. B.A. or Ph.D. is desirable in plant physiology, plant pathology, genetics or agronomy. Full-time position and requires U.S. citizenship.

Closing date: August 12, 1996



# Agronomy Gleanings

MINN  
8 Aug 86a

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 2, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Welcome to Craig Sorely. Craig has been hired as a Research Plot Technician on the Soybean Project.

The Agro 5310 summer tour is scheduled for August 22-24. The tour will center around the University of Wisconsin-Madison and finish with a field day symposium at Brown Seed Farm near Red Wing, MN. We will depart early Thursday a.m. and return late Saturday afternoon. Students in the summer class will have priority. Contact Jean Swanson, 411 Borlaug Hall (5-2740) by August 8 to insure inclusion. Deon Stuthman

Several questions have been brought up regarding the specifics of the biweekly conversion and the information distributed with the July 31 paychecks. For your information, payroll has provided the following:

For those regular payroll employees who do not volunteer to switch to biweekly payroll until September 1997, there is no guarantee that there will be a loan program at that time.

Loan request forms that have already been sent to payroll will be voided. Employees must complete the new form and return it to payroll by August 6.

Although the voluntary conversion form specifies that it be returned to payroll, it would be helpful if you would send it to me so that I can keep track of those who will be converting.

Please call me at 625-1937 with any questions. Jeanne

High Quality Grain-Fed Beef is for sale through the Animal Science Department. Available in convenient packs that includes approximately:

20-22 lb Steak, 9-12 lb Roast,  
5 lb Lean Beef Patties, 10 lb Lean Ground Beef,  
1 lb Stew Meat, 3 lb Soup Trimmings

Cost is \$120 per box. Also available, beef raised following organic standards (without hormone implants nor additives in the feed). Organic convenient pack is \$140. All proceeds from the sale of this beef will be used to conduct research on improving the quality and consistency of meat at the University of Minnesota, Department of Animal Science. Call 612-624-4995 to order or ask questions.

Southern Experiment Station, Waseca, MN

## Upcoming Special Events

Corn and Soybean Field Day September 12, 1996  
Clergy Day September 13, 1996

Swine Day - Mankato January 7, 1997  
Winter Crops Day - Rochester  
and Lewiston January 22, 1997  
Winter Crops Day - Mankato January 23, 1997  
Horticulture Day April 2, 1997  
Crops and Soils Field Day June 24, 1997  
Corn and Soybean Field Day September 11, 1997  
Clergy Day September 12, 1997

## Greenhouse Users

REMINDER: Monday, August 5th is a clean up/watering day. Some of you forgot to water last month, which means you forgot to clean up also. I will not be here on the 5th to check up on you. ANYONE who has plant materials in the greenhouse should be doing some cleaning. Pots and trays should not be left in the greenhouses. FINES will be issued.

Small grains people please let me know what your planting schedules are so that I can organize the soil. Anyone else wishing to use soil from mid August to mid September please let me know because the small grains people will pretty much be monopolizing the soil carts. Thanks for your help. Pamela Altermatt

## REMINDER

Last week Building 388 was left with the big doors open, exhaust system running and lights still on way after-hours. If you are the last one out of the building, please make sure that the exhaust system is off, lights are off and doors locked. The switch for the exhaust system is on the south wall, by the compressor room.

Mike McClellan (4-5395)

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 9, 1996

MIN  
8/9/86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Frank Enfield passed away at home on Tuesday, August 6. The memorial service will be Monday, August 12 at 7:00 p.m. at Our Saviors Lutheran Church, 1616 W. Olive Street, Stillwater. Dr. Enfield was active in the Plant Breeding graduate program, taught Quantitative Genetics, and served on graduate committees for many years.

## Announcements

The Northwest Youth and Family Services are sponsoring a fun night on the Josiah Snelling on the Mississippi River, September 14. Tickets are \$40 each and available from me or NYFS at 486-3808, ext. 211. Thanks.

Dale Hicks, NYFS Board Member

The Minnesota State Fair is approaching and the University Relations is looking for friendly and informed volunteers to staff the booth at the fair. All volunteers receive free admission to the fair on the day they work, a t-shirt and an opportunity to be a university ambassador. The fair begins on August 22 and ends on September 2. The shifts are from 8:30 a.m.-12:30 p.m., 12:30-4:30 p.m. and 4:30-9:00 p.m. Forms are at the front desk in 411 Borlaug Hall. They are due by Monday, August 12. Requests will be handled on a first-come basis.

## Network News

Give me your tired, your poor, Your huddled masses yearning to breathe free... That's right! Give me your old computer equipment to dispose of at no cost to you! This is **limited time offer**, if you want to dispose of computer equipment in the future it will be at your expense. Call me at 625-2721 to make arrangements, offer expires August 31.

Dean Flanders

## Soil, Water, and Climate Seminar

Nitrogen Economy of Alfalfa: Physiological Aspects and Environmental Impacts by Jurg M. Blumenthal on Monday, August 12 at 2:00 p.m. in 375 Borlaug Hall.

## Notices

1) Starting Monday, August 12 the seedhouse steam will be shut down for three weeks for repairs. The dryers will not have heat. But the fans will still be operating and samples can be dried at the seedhouse air temperature which is 90°.

2) There were problems with the acceptance of the PHH card in the Red Buick Century at gas stations earlier. Fleet Services has informed me that this problem has been corrected and there should be no further problem with the acceptance of this card. If problems still exist, call me ASAP.

3) On the south side of Crops Research, the small parking lot next to the hog barn, has one space for people to park while dropping off soil samples.

Lately there has been people parking in this space for hours at a time. Anyone who parks in this space for longer than 20 minutes will be tagged.

Also, on the north end of Crops Research people who drop off soil samples and U of M vehicle loading, have parked just east of the steel posts by the front door. This space is only for people who park to go in the building for five minutes or less.

This is only a drop off or a loading area, NOT for parking beyond five minutes. There is plenty of space for government vehicles to park around Crops Research and not in this location.

Mike McClellan (4-5395)

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF ILLINOIS AT URBANA  
Postdoctoral Research Associate, Department of Natural Resources and Environmental Sciences.  
Ph.D. in entomology, plant pathology, weed science, or horticulture.

Closing date: September 1, 1996

Postdoctoral Research Associate, Department of Crop Sciences. Ph.D. in plant pathology or related discipline. Frequent overnight travel.

Closing date: September 1, 1996

# Agronomy Gleanings

MW  
8-17-96

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 16, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Special thanks to Bob Peterson and the Corn Project for the corn they provided for the annual corn feed. Thanks also to the office staff for all their hard work. Suzanne and Jayanti will keep the tradition going next year. Attendance at this year's corn feed was over 100.

The faculty meeting schedule for Monday, August 19 has been canceled.

There are still three slots available for Agro 5310 Summer Tour. The tour will center around the University of Wisconsin-Madison. The dates are August 22-24. Please contact Jean Swanson in 411 Borlaug Hall (5-2740). Deon Stuthman

Graduate students, faculty and staff:

One of my daughter's science teachers at Roseville Middle School has contacted me about working with her to create some prairie and other "biomass" on plots that she has constructed next to her school. She seems particularly interested in involving a grad student in this project too.

If you are interested in helping this teacher, please get in touch with Steve Simmons ASAP. Thanks.

The St. Paul Gym will be closed August 31 to September 15 for maintenance and cleaning.

The Fairground Lot will be closed today at 11:00 p.m. through Friday, September 6 at 6:00 a.m. University students, staff, and faculty have the option of parking in Lot S101 for \$2.00/day; and Lot S102 for \$3.00/day by showing your U of M ID card. Lot S103 is also open to the general public for \$1.25/hour. Lot SC175 will honor carpool parking only for \$1.00/day with a U of M ID until 12:00 noon.

The seedhouse steam will be shut down for two weeks for repairs. The dryers will not have heat. But the fans will still be operating and samples can be dried at the seedhouse air temperature which is 90°. For any questions, contact Mike McClellan at 4-5395.

## Greenhouse Users

I will be gone Friday, August 23. Everybody needs to do their own watering. Thanks!

## Ph.D. Dissertation Seminar

Oscar Riera-Lizarazu, Characterization of Oat x Maize Progenies and Their Derivatives, Monday, August 19 at 9:00 a.m. in 306 Borlaug Hall.

## Payroll Conversion

Payroll is extending the biweekly payroll conversion and loan program to September 13, 1996. If you missed the August 9 deadline but would like to take advantage of this opportunity, please complete the forms and forward them to Payroll, 1300 South Second Street, Suite 545, Minneapolis Campus. If you have questions or need forms, please contact Jeanne Davy at 625-1937.

## For Sale

(This weekend only - returning to Australia)

- Bed (twin size - as new)
- Chest of drawers (as new)
- Boom box CD player (as new)
- Fax machine/telephone (as new)
- Mercury Sable Wagon 1990, mechanically sound, heaps of miles and very cheap.

Kevin Young (W) 625-9261

(H) 486-3869

## Graduate School Students Change in Registration Requirement

The Graduate School has instituted a new registration requirement. Effective fall 1996, all Graduate School students will be required to register in the Graduate School \*\*at least once in a 12-month period.\*\*\* (Previously, Graduate School students were required to register once every two years.) Students who fail to register annually will be considered to have withdrawn and may not register for courses, take examinations, submit degree programs or thesis proposal forms, file for graduation, or otherwise participate in the University community as Graduate School students. In order to be readmitted, students will need to file a Change of Status/Readmission Request Form (and pay a \$40 fee.) If readmitted, students must register in the Graduate School the quarter of readmission in order to regain their status.

**Graduate Assistants Health Insurance Coverage:**  
Beginning September 1, 1996, Medica will replace HealthPartners as the health care provider for the Graduate Assistant Health Care Plan. Since 1990, the Graduate School has served in an advocacy and advising role in the establishment and development of the Plan. The conversion to Medica has raised a number of questions and concerns among graduate assistants, and some misinformation has gotten into circulation. In our role as advocate, we contacted the Graduate Assistant Insurance Office (GAIO) and other offices to collect answers to frequently asked questions.

#### CONTINUITY OF COVERAGE

Three weeks ago, GAIO mailed information packets with Medica enrollment forms to graduate assistants enrolled in HealthPartners. The GAIO cover letter asked graduate assistants to return the enrollment forms by August 9. Despite a strong statement in their cover letter, the GAIO has assured us that students will not lose coverage if the forms were not returned by that date. Students may return the form even after September 1 and they will be backdated into Medica. However, the forms should be returned as soon as possible.

#### BENEFITS

The benefits under Medica will be the same as HealthPartners. There will be no changes. In particular, the Pharmacy co-pay remains at \$6.

Graduate assistants will choose their doctors from a larger network than existed under HealthPartners. About 1000 graduate assistants will have to change doctors since the majority (about 3500) previously designated the University Family Practice Clinic and Boynton Health Service as their doctors and both are Medica providers.

#### DENTAL COVERAGE

Graduate Assistants had preventative, (i.e. teeth cleaning; not restorative) dental coverage under HealthPartners. This will continue under Medica.

#### DEPENDENT COVERAGE

The Graduate Assistant Health Care Plan does not provide dependent coverage. However, graduate assistants on the Plan can buy individual dependent coverage through Medica at their own expense. Graduate assistants who wish to enroll dependents for the first time should contact Medica Customer Service at 945-8000 or 1-800-952-3455. Dependents currently on HealthPartners can continue in that plan as long as they pay the premium.

#### PREGNANCY

Pregnant graduate assistants in the first two

trimesters will go on Medica. Special arrangements will be made for those in the last trimester.

These appear to be the major questions surrounding the conversion to Medica. If you have questions about the new Medica Plan or need Medica information packets, please call the GSIO at 625-6936. As we gather more information, we will post it to the Graduate School homepage in the "What's New" section (<http://www.grad.umn.edu>).

#### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF CALIFORNIA

Small Farms Advisor, Division of Agriculture and Natural Resources.

Closing date: September 20, 1996

#### DAIRYLAND RESEARCH INTERNATIONAL

Alfalfa Breeder. Permanent, full-time. Development of hybrid alfalfa.

#### ENVIRONMENTAL AND ENERGY STUDY INSTITUTE

Marketing Internship in Washington, D.C. EESI seeks a highly motivated student with a background in business or economics for a marketing internship this Fall and Winter.

#### UNIVERSITY OF MINNESOTA

Assistant to the Director, Minneapolis Student Unions. B.A. degree and three years experience

Closing date: August 21, 1996

Evening and Weekend Service Manager, Minneapolis Student Unions. B.A. in management, communicators or related field.

Closing date: August 21, 1996

#### PEDIGREED SEED CO.

Cotton Breeder/Associate Breeder. Ph.D. in plant breeding or closely related area or M.S. in plant breeding with three years experience in a breeding research program. Available immediately.

Research Technician-(2). M.S. or B.S. with experience in an agricultural related field.

#### UNIVERSITIES SPACE RESEARCH ASSOCIATION

Postdoctoral Opportunities in Oceanic, Cryospheric and Hydrologic Science.

#### TEXAS A&M UNIVERSITY

Assistant Professor, Research and Extension Center. Ph.D. in agronomy, crop science, plant science or closely related field. Full-time, 100% research.

Closing date: October 15, 1996

#### UNIVERSITY OF WISCONSIN

Assistant Professor, Department of Horticulture, Environmental Management of Woody Ornamentals. Ph.D. in horticulture or related sciences, 12-month tenure track position, 60% extension, 40% instruction.

Closing date: October 15, 1996

Assistant Professor, Department of Horticulture, Environmental Management of turfgrass. Ph.D. in horticulture, agronomy or related science. Tenure-track, 70% extension, 30% instruction.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 23, 1996

MIW  
g Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Howard and Donna Rines became grandparents (for the first time) August 20. A daughter Nina Michelle born to their son David and wife Olga. Baby was 8 lb. 11 oz., 21 1/2 inches. Olga's mother and younger brother were here from Moldova (former USSR republic) for the occasion.

Faculty - Please note the "Guidelines for Cost Sharing and Matching Funds on Sponsored Projects" which appear in the August, 1996 issue of the ORTTA "Research Review." I believe these guidelines will answer many of the questions that are raised when putting together matching fund requests on grant proposals. If you do not receive the Research Review, please let me know and I will make sure you are put on the mailing list.

Jeanne

The seedhouse steam will be shut down for one more week for repairs. The dryers will not have heat, but the fans will still be operating and samples can be dried at the seedhouse air temperature which is 90°. For any questions, contact Mike McClellan at 4-5395.

All domestic and international mail, weighing 16 oz. or over that bears stamps, must be taken to the post office in person. This mail cannot be placed in the mailbox in front of Borlaug Hall.

## Greenhouse Users

REMINDER: I am gone today, Friday, August 23. Everybody needs to do their own watering.

DON'T FORGET: Tuesday, September 3 is a clean up/watering day.

SOIL AND PLANT MATERIALS GET DISPOSED OF OUTSIDE THE GREENHOUSES NOT IN THE GARBAGE!!

Thanks for your help!

Pamela Altermatt

## Graduate Students --- Preparations for Agro 8000

It is that time again when students and their faculty advisors need to consider whether they will be obtaining teaching experience during the '96-'97 academic year.

- Participation as a 'student teacher' in an approved course of the department. An alternative exists for students to assist an extension specialist on an extension-focused teaching project rather than participating in classroom instruction.
- Participation in a special colloquium series on teaching that is held during fall quarter with students from Soil Science, Plant Pathology, Horticulture, and Ag Engineering. This colloquium meets once per week and will be coordinated by Deborah Allan and Emily Hoover during this fall term since I will be on my term leave.
- Participation within a small group cohort of students and faculty during the quarter that you are actually teaching to discuss and plan responses to specific experiences encountered in your teaching. A faculty person from the course will also make an on-site observation of one of your teaching experiences and provide a structured critique.

Please return the form that was placed in your mailbox if you intend to participate.

Steve Simmons

## USDA International Update Candidates Needed for Farmer to Farmer Volunteer Projects

The following are short-term (three-five weeks) opportunities to work with Peace Corps Volunteers and their communities conducting workshops or on-site informal training. These are Farmer-to-Farmer Volunteer Projects. Travel and expenses are reimbursed. Salary is not reimbursed. Applicants must have at least five years relevant experience but there are no language requirements. If interested, please contact MATT ZIMMERMAN, U.S. Peace Corps; tel: 202-606-3403; fax: 202-606-3298; or via e-mail: mzimmerman@peacecorps.gov.

\* Cape Verde - Dryland vegetable production (September).

\* Ecuador - Post-harvest handling/marketing - one consultant needed with expertise on corn and beans and another for fruits and vegetables (September).

\* Mauritania - animal traction (October - November); forestry research (November - December); and soil erosion (November - December).

\* Fiji - Commercialization of tilapia production (October or November).

\* El Salvador - Livestock Veterinarian (November).

\* Ecuador - Paper and plastic recycling (November).

\* Ecuador - Livestock nutrition (November or December).

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

#### **ENVIRONMENTAL AND ENERGY STUDY INSTITUTE**

Internships for three or four months working with Congress and the federal legislative process. Need research, writing and verbal skills.

#### **UNIVERSITY OF KENTUCKY**

Full-time Graduate Teaching Assistant in Plant and Soil Science. B.S. or M.S. in plant and soil science.

Closing date: October 15, 1996

#### **UNIVERSITY OF TENNESSEE**

Research Assistant (B.S.)/Research Associate (M.S.), Department of Plant and Soil Science. Technical assistant with responsibility in weed science.

Closing date: September 1, 1996

MIW  
2 Aug 86

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

August 30, 1996

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The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.

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## Announcements

**Dr. Ernest H. Rinke** died August 25 in Sun City, Arizona. He earned his M.S. and Ph.D. degrees in the department and was a faculty member from 1940 to 1965. He was leader of the corn project and served as head for two years. From 1965 to 1979 he was director of Farm Crop Research for Northrup King and Company. Cards and letters are preferable to flowers. A memorial contribution can be made to the Eldorado Student Reimbursement Fund in memory of Ernest H. Rinke (send to Eldorado of Sun City, 10330 Thunderbird Blvd., Sun City, AZ 85351). The address of Dorothy Rinke is 10330 Thunderbird Blvd, Condo # B-311, Sun City, AZ 85351.

The University of Minnesota Libraries is happy to announce the installation of new coin-operated copy machines in all campus library locations with the exception of the Biomedical Library. For your copying convenience, the Libraries and the U of M - U Card Office are partnering to bring you a single card system on campus. These cards can be used in copiers and printers in the libraries (with the exception of the Biomedical Library) and soon will be available for use in vending machines as well as other campus applications. For further information, such as converting old style copy cards labeled "CDP copy card", see memo posted on bulletin board outside 411 Borlaug Hall.

**West Central Experiment Station-Morris**  
Grazing Day -- Thursday, September 5, 1996  
Fall Sheep Day -- Saturday, September 21, 1996

**Steam Service** for Hayes Hall will be shut off Tuesday, September 3, 7:30 a.m. - 6:00 p.m. The steam services will be affected including but not limited to: autoclaves, sterilizers, hot water, steam operated equipment. Please notify Facilities Management, Karen Ballor, at 624-2297, of any problems which would prevent the interruption from proceeding on schedule or of any temporary service that would be necessary.

## Greenhouse Users

September 3rd is a clean up/watering day. **Attention Faculty:** I have not received many responses from my greenhouse space request note. I am going to assume you don't need space unless I hear from you by September 6th. Thanks for your attention to these matters!

Pamela Altermatt

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF MINNESOTA  
Research Associate - Soil Microbiology.  
Soil Microbiology/Soil Biochemistry/Water Quality studies. PhD in Soil Microbiology or related field and 3 years research experience after receiving a PhD.

Closing date: August 30, 1996

UNIVERSITY OF MINNESOTA  
Minnesota Extension Service, District Director.  
M.S. degree appropriate to the responsibilities of the job are preferred.

Closing date: October 11, 1996

ANOKA-RAMSEY COMMUNITY COLLEGE  
Teaching position Fall quarter. Biology of  
Women. Master's in biological sciences  
discipline required.

UNIVERSITY OF MINNESOTA  
Minnesota Extension Service, Interim  
Leadership Development Specialist. Full-time,  
six-month assignment from October 15, 1996  
through April 15, 1997. M.S. degree appropriate  
to the responsibilities of the position are  
preferred.

Closing date: September 16, 1996

UNIVERSITY OF WISCONSIN-EXTENSION  
Agricultural Agent, Marinette County (100%  
time). Master's degree required by start date with  
academic preparation in field of agriculture  
related to position.

Closing date: September 23, 1996

SOUTH DAKOTA STATE UNIVERSITY  
Graduate Teaching/Research Assistantship  
(Ph.D.) Soil Fertility/Crop Nutrition. M.S. in  
agronomy, soil science, horticulture, or a related  
field.

Closing date: December 1, 1996

VIRGINIA POLYTECHNIC INSTITUTE  
Program Director, Women in International  
Development. Position at Office of International  
Research and Development (OIRD)/Virginia  
Tech. A doctorate in sociology, anthropology,  
economics or agricultural economics is essential.

Closing date: September 15, 1996



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
September 6, 1996

MIW  
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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Sara and Jon Hartman on their baby boy born August 22. He weighed 8 lb. 3 oz. and was 20 3/4 " long. Sara was the former MISA secretary in our department. She now lives in Lester Prairie, MN.

The Annual Open House for University Stores will be held on Tuesday, September 10 at the Radisson Hotel Metrodome from 10:00 a.m. to 3:00 p.m. This annual event will showcase many new products. Over 50 vendors and University Departments will participate. Lunch will be served from 11:30 a.m. to 1:00 p.m.

If you receive the Agronomy News and do not wish to keep it, please give it to Laddie Elling. Thanks.

### Ph.D. Thesis Defense Seminar

David L. DeKoeper, Molecular Genetic Analysis of Recurrent Selection for Grain Yield in Oat (*Avena sativa* L.), Monday, September 9 at 9:00 a.m. in 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF DELAWARE  
The College of Agricultural Sciences announces the availability of 1997 Graduate Research Fellowships for highly motivated students eager to pursue advanced degrees in the fields of science, engineering, operations research and business related to agriculture. Applications must be received by December 31, 1996.

KANSAS STATE UNIVERSITY  
Assistant Professor, Department of Horticulture, Forestry and Recreation Resources. Ph.D. in horticulture with emphasis in floriculture.

Closing date: October 21, 1996

OREGON STATE UNIVERSITY  
Graduate Research Assistantships in Biotechnology. Offers in M.S. and Ph.D. degree programs.

PIONEER HI-BRED INTERNATIONAL, INC.

Temporary Research Assistant (40 hours/week). Two-year agricultural/biology degree. Two positions available.

Closing date: September 14, 1996

UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Agent, Cooperative Extension. M.S. in agriculture.

Closing date: October 14, 1996

# Agronomy Gleanings

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Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
September 13, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Thomas Gronewald, brother of John Gronwald, passed away on Tuesday, September 10 at his home in Peoria. He was 47. Services will be on Saturday at St. Mary of the Woods Catholic Church in Princeville. Memorials may be made to St. Thomas the Apostle Catholic Church building fund or any charity. The department has sent flowers.

## Announcements

Congratulations to Dave DeKoeper who successfully completed his Ph.D. thesis defense on Monday.

The Social Committee would like to inform you that the departmental wine and cheese event -- originally scheduled for October 3, 1996 from 3 to 5 p.m. at the Weisman Art Museum -- is now scheduled as a College-wide event, and is no longer linked to our annual reception honoring our new employees and students. Watch for an announcement from the College if you are interested in attending the reception at the Weisman.

The social committee will be meeting soon to arrange our annual departmental reception. Please look for more details in future issues of the Gleanings. The Social Committee

**Graduate Students:** We need TA's for Agro 3030 and Agro 1010. Please see Lynne Medgaarden immediately if you are interested.

Does anyone have furniture (chairs, tables, etc.) or household items that they would like to donate to a new student? Please contact Lynne at 5-4742. Thanks.

## Greenhouse Users

The greenhouse season is in full swing and here are a few gentle reminders:

1) Soil and plant material are to be discarded outside, not in the garbage receptacles. "Think about insect and rodent control!"

2) The first Monday of every month is a clean up/watering day. At the minimum your greenhouses should get swept out, weeds on the benches and in pots/cone-tainers should be controlled, and all garbage should be discarded in the dumpster.

3) During planting and harvesting seasons, please be considerate and clean up after yourselves. With the constant traffic through the greenhouses, your mess will go far. I have seen it.

ALL PROJECTS: GREENHOUSE SPACE IS AT A PREMIUM. PLEASE BE PREPARED TO SHARE ANY OPEN BENCHES YOU MIGHT HAVE.

Pamela Altermatt

## Funding Sources

Information regarding the following Research & Training grants has been received:

1. American Council of Teachers of Russian/American Council for Collaboration in Education and Language Study. Grant: \$150,000. Purpose is to support graduate students, postdoctoral fellows, and junior faculty in Russian, Eurasian and Central European studies for advanced on-site language training and research.
2. Council on International Education Exchange. Grant: \$50,000. Purpose is to support fellowships for advanced and specialized on-site Russian language training.
3. Hoover Institution on War, Revolution and Peace at Stanford University. Grant: \$125,000. Purpose is to support residential postdoctoral fellowships on the NIS and summer grants on the NIS, Eastern Europe and the Baltic states.
4. University of Illinois at Urbana-Champaign. Grant: \$120,000. Purpose is to provide partial funding for the University's Summer Research Laboratory and the Slavic Reference Service.
5. International Research and Exchanges Board. Grant: \$1,195,000. Purpose is to support a variety of programs facilitating American scholarly access to Russia, Eurasia and East Europe: individual field research grants; pre-departure orientation; short-term travel grants; special projects; and dissemination of field results.
6. Joint Committee on Eastern Europe. Grant: \$570,000. Purpose is to support fellowships for dissertation completion, postdoctoral research, and pre-dissertation travel grants; institutional and

individual language training grants; and collaborative research and training through conferences and the Junior Scholars' Training Seminar.

7. Joint Committee on the Soviet Union and its Successor States. Grant: \$865,000. Purpose is to support a national fellowship program for advanced graduate training, dissertation completion, and junior postdoctoral research; workshops on critical themes in post-Soviet studies; and a competition for grants to U.S. Institutions offering intensive training in languages of the NIS.

8. National Council for Soviet and East European Research. Grant: \$1,120,000. Purpose is to conduct one or more national competitions among American institutions of higher education and non-profit organizations in support of advanced research projects on Russia, Eurasia, and East-Central Europe.

9. The Woodrow Wilson Center for International Scholars. Grant: \$725,000. Purpose is to support research scholarships, short-term grants, research fellowships and internships; the meetings programs; and outreach publications of the Kennan Institute for Advanced Russian Studies and the East European.

10. Foreign Agricultural Service. FAS announces the availability of funds in Fiscal Year 1997 to conduct collaborative research of mutual interest to the United States and Egypt. The Research and Scientific Exchanges Division of FAS is administering a Food Crops Collaborative Research Grants Program, which is managed by the Egyptian Agricultural Technology Utilization and Transfer Project. The program is aimed at resolving the major constraints to increasing the productivity of four major food crops: wheat, maize, rice and faba beans.

See Jeanne for details.

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

Chemical Company needs M.S. or Ph.D. in weed science, plant science, agronomy or plant physiology. Experience working with corn and soybeans. Need to be articulate and able to present public presentations to growers. Must live within commuting distance to Hollandale, MN. Salary is \$45,000-60,000/yr. Contact Steve Stebbins at 800-225-4610 or FAX 916-481-7099.

### **LOUISIANA STATE UNIVERSITY**

Assistant Professor, Department of Experimental Statistics. Ph.D. and strong background in applied statistics.

Closing date: January 1, 1997

### **NORTH DAKOTA STATE UNIVERSITY**

Tenure-track position in Hard Red Spring and Durum Wheat Germplasm Enhancement, Department of Plant Sciences. Ph.D. in plant sciences with emphasis in biotechnology.

Closing date: November 15, 1996

Extension Forester, Department of Plant Sciences. B.S. or M.S. degree in entomology, plant pathology or forestry/horticulture.

Closing date: November 1, 1996

### **VIRGINIA TECH**

Postdoctoral position, Department of Biology. Two-year position to work on the systematics of grasses using DNA sequence.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
September 20, 1996

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The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.

## To the Department

Thank you for your expressions of sympathy on the death of my brother. The flowers sent by the department were beautiful and very much appreciated. John Gronwald

## Announcements

Oscar Riera has started working as of September 16 as a postdoc with Ron Phillips and Howard Rines.

The Social Committee would like to inform you that the departmental wine and cheese event -- originally scheduled for October 3, 1996 from 3 to 5 p.m. at the Weisman Art Museum -- is now scheduled as a College-wide event.

The social committee will be meeting soon to arrange our annual departmental reception. Please look for more details in future issues of the Gleanings. The Social Committee

The U of M Libraries have installed new coin-operated copy machines in all campus library locations except for Biomedical Library. Old style copy cards labeled "CDP copy card" will need to be converted to the new card system. The cards can be converted at the Law Library, St. Paul Central Library, Walter and Wilson Library until November 1. (Times are posted at the front desk in 411 Borlaug Hall). Anyone who has a U Card can use their card in the copy machines and printers by adding up to \$50 in value to their card at a cash-to-card station.

Multinational Exchange for Sustainable Agriculture (MESA), a non-profit organization, sponsors organic farmer-to-farmer training programs between the United States and participating countries. They are currently seeking six month live/work positions for two young farmers from Honduras and Russia. Felix Gonzales of Honduras seeks a field crops or vegetable crops host farm in November until April, and Pasha Golovko of Russia is seeking opportunities to train with either a landscaper, tree fruits or grape grower. Please contact MESA at 510-654-8858 if you would be interested in hosting an individual or for more information about the program.

Integrated Resource Management Fall Conference will be held September 29 to October 1 in Deerwood, MN. Several businessmen in the U.S. beef cattle industry will be speaking at the conference and there are numerous small group sessions led by faculty, graduate students and extension personnel. Registration information is available at the front desk in 411 Borlaug Hall.

## New Fall Quarter Courses

Growing Plants Organically: What It Means To Be "Green" (Hort 3010 #625426). Bud Markhart, instructor, Mondays 1430-1625, TH 1430-1520 in 310 Alderman.

Dr. Irwin Rubenstein is offering Biology 3950H. This course will use the book "The Blind Watchmaker" by Dr. Richard Dawkins. This book is written in the conviction that our own existence once presented the greatest of all mysteries, but that it is a mystery no longer because it is solved. Dr. Rubenstein can be reached at 624-0774. Grading will be S/N. Course credits: 2. After the first introductory meeting, students will take turns leading the discussion of individual chapters.

## Funding Opportunities

Request for 1997 Research Pre-proposals for Independent Professional Seedsmen Association. Deadline for submission is October 7, 1996. See Jeanne for details.

## Plant Breeding Ph.D. Thesis Defense Seminar

Jan Erik Backlund, Parthenocarpy and stenospermacarpy in a *Solanum phureja* S. *stenotomum* population, Wednesday, September 25 at 10:00 a.m. in 310 Alderman Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### CIBA SEEDS

Research Assistant/Assistant Breeder, Research Department in Marion, IA. M.S. in plant breeding or a B.S. with equivalent experience.

THE LAND INSTITUTE

Eight student internships in sustainable agriculture for 43-week term beginning February 17 and ending December 12, 1997. Candidates should be college graduates or upper-level undergraduates.

Closing date: October 1, 1996

MISSISSIPPI STATE UNIVERSITY

Director, Southern Rural Development Center.  
Ph.D. in agricultural economics or rural sociology.

Closing date: November 1, 1996

UNIVERSITY OF NEBRASKA

Research Technologist (part-time), Department of Agronomy. B.S. in agricultural sciences or related field.

Closing date: September 27, 1996

OREGON STATE UNIVERSITY

Assistant or Associate Professor (Weed Scientists - Cropping Systems Specialist), Malheur Experiment Station. Ph.D. in agronomy, weed science or related area. Tenure-track position, 100% research.

Closing date: November 15, 1996

SOUTH DAKOTA STATE UNIVERSITY

Research Associate, Plant Science Department.  
M.S. in agronomy, weed science, biology, chemistry or soil science..

Closing date: November 15, 1996

District Extension Supervisor, College of Agriculture and Biological Sciences. Ph.D. or M.S. in agriculture, family and consumer sciences, extension education, or closely related field.

Closing date: October 15, 1996

# Covey Leadership The Seven Habits of Highly Effective People Program Offering Fall 1996

This program is open to all St. Paul Campus faculty, staff and graduate students. The program is limited to 35 participants on a first come, first serve basis.

When: Tuesdays and Thursdays October 1 - November 26, 1996

Time: 8:30 a.m. - 10:00 a.m.

Place: 365 Borlaug Hall

Cost: \$110.00 Covers program materials and expenses. Payment may be made by department CUFS# or by personal check. Payment due by first day of class, October 1, 1996.

To sign-up: Contact Marilyn Hole  
Phone - 624-1268 Fax# 625-1268  
E-mail: [holex001@maroon.tc.umn.edu](mailto:holex001@maroon.tc.umn.edu)

Certified Instructors: Roger Becker, Kent Crookston, Karen Dewanz,  
Denise Gamble (Taack), Ann Hill-Duin, JoAnn Lamb,  
Dani O'Reilly, Al Sullivan

What you will learn: Learn the basic habits of effectiveness that are being taught and practiced in more than half of America's Fortune 500 Companies today. Learn the paradigms, principles and processes upon which these seven habits are based. As a result, learn how to accomplish what YOU want from your private and public life.

Individuals and organizations should be guided and governed by a set of proven principles. These are the natural laws and governing social values which have gradually come through every great society and every responsible civilization over the centuries. They surface in the form of values, ideas, norms and teachings which uplift, ennoble, fulfill, empower, and inspire people. Living and operating out of a set of principles as opposed to a set of practices increases both capability and flexibility.

Stephen R. Covey

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
September 27, 1996

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Russell and Alisa Rasmussen on their new baby boy. Riley Scott weighed 7 lbs. 6 oz. and was 22" long. He joins his big brothers Chantry and Nathan.

Lynn (Elrod) Wilson is helping us collect information on sections that have not reported on their work. Please cooperate with her on this project.  
Laddie J. Elling

On Friday, October 4, there will be a pizza social in 306 Borlaug Hall at 4:00 p.m. The social will be following the new student orientation, so be sure to come out and get acquainted with some new faces.

The alfalfa project is looking for a Jr. Scientist Trainee. Pay rate is \$6.27-\$7.15/hr. Twenty hours per week. Job number for non-work study is C49609202TR and work study is A9609202. Apply at the Student Employment Office. You can also call Keith Henjum at 625-4291, if you have any questions.

The fourth annual Kuehnast Lecture Series will be held on Friday, October 11 at 3:30 p.m. in 335 Borlaug Hall. This is sponsored by the Department of Soil, Water, and Climate. This lecture series is in honor of the late Earl Kuehnast. Dr. Donald Baker will be this year's speaker. Everyone is welcome to attend.

The Wine and Cheese Social will be held on Wednesday, October 23 from 3:00-5:00 p.m.

Daisy Travel sent us a FAX with price and flight information to the Agronomy ASA meeting in Indianapolis. Airfares are starting at \$238.00 round trip per person. This fare requires a Saturday night stay and is nonrefundable. The times and flight information is available at the front desk in 411 Borlaug Hall.

Space is still available to enroll in the Seven Habits of Highly Effective People. To register contact Marilyn by: phone: 624-1268 or e-mail - holex001@maroon.tc.umn.edu. Cost for Agronomy & Plant Genetics employees will be covered by the department. The class meets Tuesday and Thursday, 8:30-10:00 a.m. beginning October 1 to November 25.

## Funding Opportunities

The North Central Soybean Research Program is requesting preproposals to invest over \$100,000 for fiscal year 1997. Preproposals will be accepted until October 11, 1996. The NCSR's competitive grants program is open to all qualified researchers, organizations and institutions. See Jeanne for details.

## Pumpkins, Gourds, and Corn

Celebrate autumn with the Gopher Crops & Soils Club. We have a bumper crop of corn, pumpkins, gourds (and turbin squash too). Watch for the display to purchase your fall decorations and help out the undergraduate club.

## Gopher Crops & Soils Hot Dog Feed

The new school year is here! Come and meet new and returning students to help welcome them back. This free hot dog barbecue is open to all members of the department. Please help spread the word by telling your students.

Wednesday, October 2

5:30 p.m. on

the Borlaug patio

(306 if its raining)

Hope to see you there!

## Greenhouse Users

The steam will be shut off in buildings 415 and 370 on Monday, September 30.

OCTOBER 7th is a clean up/watering day. If you have any plant material in the greenhouse, you are responsible for cleaning up that space. This includes the weeds on your benches and in your pots/containers. Most of our greenhouses are looking very good. Thanks for your help.

Whoever used the insect cages in 370C3, please remove them. These things DO NOT get left in the greenhouses. They are taking up valuable space.

I am in the process of hiring two students for spraying. If all goes well, we will begin spraying next week. I have been releasing some biologicals hoping to keep the spraying at a minimum. They seem to be working.

Anyone who borrowed hoses from the greenhouses this summer, please return them. Pam Altermatt

### **Agronomy Teaching Lab**

The Agronomy Teaching Lab no longer has a camera available for use on the copy stand (due to theft of the teaching camera). Projects will be responsible for providing their own camera (preferably with a macro lens) for use on the copy stand.

Slide trays will also no longer be available for borrowing. Projects will need to provide their own trays for student seminars, meetings etc. Everyone in the department is encouraged to purchase their own trays.

The Storehouse has trays available. It is recommended that you purchase a Kodak Eletagrophic Universal 80 slide tray. They can also be purchased at local stores.

If you currently have a borrowed Agronomy Teaching slide tray in your possession, please return it promptly.

Thank you,  
Teresa Schoeder

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

#### **UNIVERSITY OF CALIFORNIA**

Assistant Cooperative Extension Specialist and Weed Ecologist, Department of Vegetable Crops. Career-track, 11-month position. Ph.D. in plant science discipline with expertise in weed science, agronomy, or plant physiology.

Closing date: December 1, 1996

#### **CARTHAGE COLLEGE (Kenosha, WI)**

Assistant Professor of Molecular Biology/Botany, Division of Natural Sciences. Strong background in experimental biology.

Closing date: November 15, 1996

#### **UNIVERSITY OF KENTUCKY**

Assistant/Associate Professor of Agronomy, Department of Agronomy. Tenure-track, 12-month appointment in turfgrass management and physiology. Ph.D. in plant sciences.

Closing date: December 1, 1996

#### **WASHINGTON STATE UNIVERSITY**

Assistant Professor in Soils and Assistant Soil Scientist (Soil Physics), Department of Crop and Soil Sciences. Tenure-track, 40% teaching/60% research. Ph.D. in soils.

Closing date: March 3, 1997.

Weed Scientist/Crop Ecologist, Department of Crop and Soil Sciences. Tenure-track, 75% research/25% teaching. Ph.D. in weed science, agronomy, genetics, or weed ecology.

Closing date: December 16, 1996



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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

October 4, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Dr. Carroll Vance has been selected to receive the 1996 USDA/ARS Outstanding Senior Research Scientist Award. This is the first time this recognition has come to a member of our department. From among the 2,700 scientists in USDA/ARS, each year four are selected as outstanding. This selection is based on career achievements, impact, and mentoring. Carroll was selected for his work on the biochemistry and molecular control of nitrogen fixation and assimilation, and his efforts in mentoring of students and colleagues. The recognition includes an award to Carroll personally, plus \$25,000 to his research project.

Congratulations Carroll, and thanks for bringing this recognition to the Department.

There will be a pizza social today in 306 Borlaug Hall at 4:00 p.m. The social will be following the new student orientation, so be sure to come out and get acquainted with some new faces.

The National Research Initiative Competitive Grants Program (NRI) is pleased to announce the release of the 1997 Program Description as of September 30. This document and the NRI Application Kit (including downloadable forms) are now available on the NRI Home Page. The NRI Home Page can be accessed from the CSREES Home Page at [www.reeusda.gov](http://www.reeusda.gov). (Choose "Funding Opportunities," "All Funding Opportunities," and "National Research Initiative Competitive Grants Program"). The submission deadlines for the various research areas are also listed on this web site.

The Beta of Clovia Bazaar will be held on Friday, October 18 from 10:00 a.m. to 7:00 p.m. and Saturday, October 19 from 10:00 a.m. to 1:00 p.m. Holiday items, nature crafts, tot shop, cookbooks, specialty foods and rag rugs will be sold. Free Admission. It will be held in the North Star Ballroom, St. Paul Student Center.

David Pfarr is looking for a ride and roommate to the ASA meetings (former undergrad in our department). He lives in LeSeur. Please call him at work (507-357-2251) or home (507-665-6920).

The U Card Office will be on our campus during the weeks of October 7-11 and 14-18 in the St. Paul Recreational Sports Center as follows:

11:00 a.m.-1:30 p.m. - full service

4:00-6:30 p.m. - limited service

For more information, please contact Shirley Nordstrom of the U Card Office at 6-9909.

Pumpkins, gourds and squash are on sale from the Gopher Crops & Soils Club. The sale will be held Monday, Wednesday and Friday from 3:30-5:30 p.m. in front of Crops Research. A display is set up in front of 411 Borlaug Hall for you to see.

Boy Scout wreaths and sprays/holiday popcorn for sale. Brochure in break room in 411 Borlaug Hall or call Jayanti at 5-1208.

## Greenhouse Users

Monday, October 7th is a clean up/watering day. The 370A range and 370C1 and 3 all need cleaning. Everything else is looking great! Thanks.

Some cleaning tips: dump pots with dead plants, pull weeds in pots, containers and on benches, throw all garbage in dumpster, empty pots should be cleaned and stored in the headhouse (they should not be left in the greenhouse), watering cans and other tools should be stored in the headhouse when not in use.

Some of you have been dumping plant materials and not cleaning up behind yourselves. The trail is pretty easy to track and fines will be issued.

I will be gone on October 17th & 18th. Everybody needs to do their own watering.

I have been releasing biological controls in those houses that haven't been sprayed in the past month. I am ordering the insects from IPM Laboratories out of New York. One of the strategies of practicing IPM is to use physical and cultural pest controls wherever possible. "Keep crop area free of debris and weeds (pest havens)." Their quote not mine, but it is what we are trying to do.

Thanks for your help!!

Pamela Altermatt

### Annual Fall Celebration

The Department of Agronomy and Plant Genetic's Annual Fall Celebration (a.k.a. the Wine and Cheese Social) will be held on Wednesday, October 23, 306 Borlaug Hall, from 3:00 to 5:00 p.m. The cost is \$2.00, but only \$1.00 with an accompanying pumpkin/gourd "sculpture." Enter the sculpting contest, meet the newest department members, chat with old friends, and enjoy the munchies -- we'll see you on the 23rd!!!

### Call for Proposals

North Central Biotechnical Program. The fundamental mission of the North Central Biotechnical Initiative is to enhance plant agriculture through the application of biotechnology. The expected outcome would include such items as the development of new and better products from plant commodities, the improvement of the agricultural system from production through harvest, storage, processing via the application of biotechnology. Proposals are due December 1, 1996. See Jeanne for details.

### Seminar

Plant Breeding - Deon Stuthman, Recurrent Selection in Autogamous Crops -- Past, Current and Future, Monday, October 7 at 3:30 p.m. in 306 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### CIMMYT

Molecular Geneticist. Ph.D. in plant genetics, biology, biochemistry or molecular biology/genetics with a minimum of two years experience. Working knowledge of Spanish desirable.

Closing date: December 1, 1996

Geneticist/Breeder. Ph.D. in plant breeding or genetics with a minimum of two years experience in handling transgenic maize in the field or greenhouse.

Closing date: November 1, 1996

#### MICHIGAN STATE UNIVERSITY

Assistant Professor, U.S. Department of Energy-Plant Research Laboratory. Postdoctoral research experience with demonstrated productivity and evidence of potential for independent research.

Closing date: November 1, 1996

#### OREGON STATE UNIVERSITY

Faculty Research Assistant, Department of Crop and Soil Science. (Plant Genetics, Barley Breeding and Genetics, 100% research). B.S. or M.S. in a biological science discipline.

Closing date: November 1, 1996

Research Associate, Department of Crop and Soil Science. Grass Seed Genetics. Ph.D. in genetics, molecular biology, or plant breeding.

Closing date: October 18, 1996

#### PIONEER HI-BRED INTERNATIONAL, INC.

Research Associate, Nurseries and Research Seed Production Trait and Technology Development, Salinas, Puerto Rico. B.S. in agriculture and experience in production agriculture are required.

Closing date: October 15, 1996

#### ROME, ITALY

Agricultural Officer. Advanced university degree in agronomy or a closely related discipline with formal training in applied crop and soil relationships. Seven years experience. Working knowledge of English, French or Spanish.

Closing date: November 12, 1996

#### VOLKART MAY & ASSOCIATES, INC.

Computer Network Telespecialist. Answering technical questions involving computer networks.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
October 11, 1996

Mid  
E. Ag. Soc.

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A farewell coffee will be held for Lisa Gulbranson on Monday, October 14 at 3:00 p.m. in 306 Borlaug Hall. Everyone is invited.

A Civil Service Staff meeting will be held on Tuesday, October 15 at 9:00 a.m. in 306 Borlaug Hall to discuss a new purchasing card program being offered by Disbursement Services. Each project should have a representative at this meeting. Coffee and rolls will be provided.

Pumpkins, gourds and squash are on sale from the Gopher Crops & Soils Club. The sale will be held Monday, Wednesday and Friday from 3:30-5:30 p.m. in front of Crops Research. Help support the undergrad club.

The Beta of Clovia Bazaar will be held on Friday, October 18 from 10:00 a.m. to 7:00 p.m. and Saturday, October 19 from 10:00 a.m. to 1:00 p.m. Holiday items, nature crafts, toy shop, cookbooks, specialty foods and rag rugs will be sold. It will be held in the North Star Ballroom, St. Paul Student Center.

The current plan for the Post Office in Coffey Hall is to remodel the Student Center concessions area to accept the new St. Paul Postal Station. They plan to design a small convenience store in the Games Room. The remodeling project should be opening up winter quarter. The new service will have extended hours from 9:00 a.m. to 5:00 p.m.

Graduate and Professional Students: The Council of Graduate Students and the Graduate and Professional Student Assembly invite you to the annual COGS Fall Social. It will be held on Monday, October 14 from 4:30-6:30 p.m. at Coffman Memorial Union Terrace. Refreshments will be served. Please RSVP to 625-2982 or gaps@gold.tc.umn.edu.

The U Card Office will be at the St. Paul Gym, located at 1536 N. Cleveland Avenue until October 23, from 11:00 a.m. to 1:30 p.m. and 4:00-6:30 p.m., Room 104. If you need a new U Card, this is the place to go. Please call 626-9900 with questions, or send an e-mail to ucard@tc.umn.edu.

The College of Agricultural, Food, and Environmental Sciences Career Day will be held on Wednesday, October 23 from 10:00 a.m. to 3:00 p.m. in the Northstar Ballroom, St. Paul Student Center. They are interested in seeing as many students and faculty members as possible, so please try to attend.

## Annual Fall Celebration

The Department of Agronomy and Plant Genetic's Annual Fall Celebration (a.k.a. the Wine and Cheese Social) will be held on Wednesday, October 23, 306 Borlaug Hall, from 3:00 to 5:00 p.m. The cost is \$2.00, but only \$1.00 with an accompanying pumpkin/gourd "sculpture." Enter the sculpting contest, meet the newest department members, chat with old friends, and enjoy the munchies -- we'll see you on the 23rd!!!

Every Friday during the school year is Maroon and Gold Casual Friday. Show your spirit and pride in the U by wearing your maroon and gold apparel.

## Greenhouse Users

The greenhouses are looking great, with the exception of 370A range. Would the users of houses in this range please make an effort to do some clean up!

\*\*\*REMEMBER\*\*\* When you move plant material or soil through the houses, be sure to clean up behind yourself-not just your house, but the whole distance of your mess. There are not any circumstances in which you should leave another house, the hallways, or the headhouse in a mess.

I will be gone October 17th and 18th. Everybody will need to do their own watering.

Thanks!!

Pamela Altermatt

## Introductions

Hi! My name is Cristine Handel, and I am a new graduate student at the Department of Agronomy and Plant Genetics. I am 26 and I came from Porto Alegre, a city in the South of Brazil. I will be here for four years, working with Dr. Deon Stuthman in the oat breeding program, and on my Ph.D. If you have any doubts or curiosities about me, or Brazil, please come and talk to me in Room 306 (Hayes Hall).

## Introductions

Although I am a new grad student, I am not new to the department. For the last two years, I worked with pleasure, primarily on alfalfa tissue culture with Dr. Carroll Vance and Dr. Debby Samac (Department of Plant Pathology). Now, I switched to the Oat Project where I will be working toward a Master's degree on transformants for fungal resistance in oat with Dr. Dave Somers and Dr. Howard Rines in collaboration with Dr. Dick Zeyen and Dr. Bill Bushnell of the Department of Plant Pathology. I am originally from the Netherlands and I studied at the Hogeschool Venlo, where I received the degree of engineer in biological and medical laboratory sciences, with a specialization in biotechnology. In the summer I got married to Emily Moellring.

Ing. Martijn van de Mortel

Emily Pullins comes to the U. from tropical Kenya where she spent ten months researching new crops for semi-arid zones on a Fulbright Fellowship. She is working with Dr. Steve Simmons and Dr. Nick Jordan. Emily got her M.S. in agronomy at the University of Missouri-Columbia working in the Alternative Crops Project with U. alumni Dr. Robert Myers. Emily's undergraduate degree in Biology was earned at U.C. Santa Cruz, with an emphasis in wildlands plant conservation and environmental science.

I grew up in the Twin Cities, and my first home was an apartment at Como Student Housing, since my father was a student at the University of Minnesota when my twin sister and myself were born. I began my U of M education in CLA studying fine arts, before choosing to pursue my interests in the plant sciences. A CBS faculty member suggested I would have a more enjoyable educational experience with the friendly COA students than with the predominantly pre-med students in CBS, and I followed his advice. I graduated from CAFES last Spring with an Animal and Plant Systems major, and an Integrated Pest Management emphasis. In July, I began a Research Assistantship with Dr. Ervin Oelke, working with wild rice seed dormancy issues. So far I enjoy tromping around in the muck up at the Grand Rapids experiment station, as well as the other duties I have been assigned. Along with an M.S. in Agronomy, I intend to earn a minor in Sustainable Agriculture, a field of great interest to me. I have had numerous positive experiences on this campus, and consider myself blessed to be a part of this department.

Salina Amey

## Helpful Information

You may have seen a recent program that discussed credit card and instant credit fraud. This privacy Intrusion Warning was forwarded to me. Your name, SS#, current address, previous addresses, mother's maiden name, birthday and other personal information are now available to anyone with a credit card through a new Lexis database called P-Trax. This information could be used to commit credit card fraud or otherwise allow someone else to use your identity. You can have your name and information removed from this list by making a telephone request. Call 800-543-6862, select option 4 and then option 9 ("P-Trax") or 3 ("all other questions") and tell the representative answering that you wish to remove your name from the P-Trax database. You may also send a fax to (513) 865-1930, or mail a letter to LEXIS-NEXIS, P.O. Box 933, Dayton, Ohio 45401-0933. Sending mail to confirm your name has been removed is always a good idea. As word of the existence of this database has spread on the net, Lexis-Nexis has been inundated with calls, and has set up a special set of operators to handle the volume. In addition, Andrew Bleh is a manager responsible for this product, and is the person to whom complaints about the service could be directed. He can be reached at the above 800 number. Ask for extension 3385.

Evonne Kuyper

## Homecoming Activities

**Tuesday, October 15, St. Paul Day:** Cow chip throwing contests, ultimate frisbee, food, and music.

**Friday, October 18 - 5:30 p.m., Barbecue**  
7:00 p.m. - Pepfest and coronation  
8:00 p.m. - Bonfire in front of St. Paul Campus Gym  
9:00 p.m. - Skits by St. Paul Creek Alums  
10:00 p.m. - Street dance on Buford Avenue

**Saturday, October 19 - 8:30-11:00 a.m. - Farmer's Share Breakfast, Clovia Bazaar, displays, family events, and music.**

10:00 a.m. - Little Red Oil Can Award Ceremony  
11:00 a.m. - Parade on University Avenue, Dinkytown area.  
1:45 p.m. - UMAA Pepfest, Metrodome Plaza  
3:00 p.m. - Minnesota Gophers vs. Michigan State Spartans, Metrodome.

## Living Quarters

Harold and Heidi Mickelson (former and current graduate students) will return from CIMMYT, Mexico on November 30. Note their request: "We will be looking for a house or apartment to rent. We would prefer to find something finished, maybe a house-sitting arrangement. Are there any professors taking sabbaticals?"

## Seminars

October 14 Plant Breeding, Jim Luby, Silk road apples -- collecting and conserving the wild apple germplasm of Kazakstan, 3:30 p.m., 306 Borlaug Hall.

Plant Molecular Genetics, Shin Enomoto, Exceptional genetics of RLF genes: Are the existing models for inferring protein-protein interactions from gene-gene interactions valid?, 12:00 noon, 306 Borlaug Hall.

Soil, Water, and Climate, David Tilman, Biological diversity and the functioning of a grassland ecosystem, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

Biotechnology, Atsuhiko Shinmyo, Metabolic engineering of plant cells, 2:30 p.m., 239 Gortner Lab.

October 15 Plant Biological Sciences Colloquium, Eva Pell, Ozone-induced acceleration of foliar senescence: Mechanisms and implications, 3:30 p.m., 306 Borlaug Hall.

October 23 SPECIAL SEMINAR, Joachim Schulze, Carbon expenditure for nitrogen fixation, 9:00 a.m., 408 Hayes Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

AUGUSTANA COLLEGE (Sioux Falls, SD)  
Plant Geneticist, Biology Department. Ph.D. in plant genetics, broad understanding in plant biology and have experience in statistics.  
Closing date: November 15, 1996

UNIVERSITY OF ARKANSAS  
Resident Director, Department of Horticulture. M.S. in horticulture or related field. Training and experience in fruits is desirable.  
Closing date: December 1, 1996

UNIVERSITY OF MINNESOTA  
Assistant Professor, Department of Entomology. Ph.D. in entomology or related field, evidence of outreach education activities in entomology, research experience in pest management. Tenure-track position, extension 55%, research 15% and teaching 30%. Location will be at Northwest Experiment Station, Crookston, MN.  
Closing date: January 6, 1997

Acting Associate Development Officer, Minnesota Extension Service. B.A. degree.  
Closing date: October 25, 1996

Research Fellow and Research Associate positions available, Department of Soil, Water, and Climate.  
Closing date: October 1, 1997

Admissions Director, Law School. B.A. degree, excellent written and oral communications skills.  
Closing date: October 18, 1996

Event and Conference Services Coordinator, Minneapolis Student Unions. B.A. in business or communications and minimum of one year of management experience.  
Closing date: October 16, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

October 18, 1996

MW  
A2869

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A Grad Club meeting will be held this afternoon at 4:00 p.m. in 306 Borlaug Hall. Fall Quarter activities, committee activities and the computer room will be discussed.

There will be a faculty meeting on Monday, October 21 at 1:00 p.m. in 306 Borlaug Hall.

Employee Health and Benefits Fair will be held at the North Star Ballroom on Tuesday, October 29 from 10:00 a.m. to 3:00 p.m. This is your chance to ask questions about the medical plans being offered this year, check up on your retirement investments, and free health screenings. Open enrollment is from October 16 to November 15.

October 18, 1996, is the deadline for female graduate students to apply for an Agnes Hansen Award from Xi Chapter of Sigma Delta Epsilon. These awards are made to female graduate students to defray some costs of travel to national or other major scientific meetings where they are presenting the results of their research. The funds may be used for travel expenses and registration fees, not room and board. A maximum of \$300 may be awarded but the usual award is \$100-\$200. Check the bulletin board in the 3rd floor hallway of Hayes Hall. Awards are given each quarter. Future deadlines are February 14, 1997 and June 13, 1997.

Career Day will be held on Wednesday, October 23 from 10:00 a.m. to 3:00 p.m. in the Northstar Ballroom, St. Paul Student Center. Faculty and students are encouraged to attend.

Beth Schreiber is looking for a roommate for the ASA meetings: 625-5710.

The St. Paul Post Office will now be open from 10:00 a.m. to 3:00 p.m. (will be open during the lunch hour).

The Department of Horticultural Science (Alderman Hall) invites faculty, staff, students and their families to an Open House tomorrow from 10:30 a.m.-12:00 noon. Hot apple cider, cookies, and apples will be served. Come browse displays and take a tour of a lab, greenhouse or growth chamber.

## ASA

Faculty Reminder: ASA Career Development and Placement Service interviews will be held on Sunday, November 3 from 1:00-4:30 p.m. at Exhibit Hall C at the Indiana Convention Center.

If you are planning to present a seminar or poster at the ASA meetings, dry run session forms need to be into Lynne by next Tuesday, October 22.

## Notice

We have a brand new 1997 Dodge Caravan, color is dark rosewood-brown, vehicle #2273. This replaces the blue Caravan #2196.

Mike McClellan

## Annual Fall Celebration

The Department of Agronomy and Plant Genetics Annual Fall Celebration (a.k.a. the Wine and Cheese Social) will be held on Wednesday, October 23, 306 Borlaug Hall, from 3:00 to 5:00 p.m. The cost is \$2.00, but only \$1.00 with an accompanying pumpkin/gourd "sculpture." Enter the sculpting contest, meet the newest department members, chat with old friends, and enjoy the munchies -- we'll see you on the 23rd!!!

## Faculty/Staff

**U of M/Community-Charitable Partnership**  
The annual Community Campaign has a new name for 1996 - Charitable Partnership. Pledge cards and a brochure explaining the programs you can support will be in your mailboxes next week. In 1995 the University had a participation rate of 16%. The Department of Agronomy had a participation rate of 22.8% and raised \$5,000. You can be a participant by sending a check for any amount, or by having at least one dollar deducted from each paycheck. Cards can be turned into me or mailed directly to Payroll. Remember to put your name and social security number on the card. If you have any questions regarding the Campaign, please contact me. Jeanne

### Slide Trays

Just a reminder that the Agronomy Teaching Lab no longer has slide trays available for borrowing. Each project is responsible for providing faculty, staff and students with a slide tray. Keep this in mind as the Agronomy meetings will be here in three weeks, and student seminars are starting. Purchase slide trays from the Storehouse. The Kodak Ektagraphic 80 slot Universal Slide Tray (item #PH943) for \$11.13 is an excellent tray.

### Grants Awarded

Ronald Phillips, Marker-Assisted Domestication of Wild Rice, \$122,000, 4/1/96-3/31/98.

Burle Gengenbach, Improving Lysine Content and Nutritional Value in Corn, \$110,000, 4/1/96-3/31/98.

Donald Rasmusson, University of Minnesota Barley Scab Project, \$10,000, 7/1/96-6/30/97.

### Living Quarters

Harold and Heidi Mickelson (former and current graduate students) will return from CIMMYT, Mexico on November 30. Note their request: "We will be looking for a house or apartment to rent. We would prefer to find something finished, maybe a house-sitting arrangement. Are there any professors taking sabbaticals?"

### Safety Awareness Program

The Resources Coordinating Team is planning three safety sessions for this year. Dan Siegler, Facilities Management and Dean Herzfeld, Minnesota Extension Services will be presenting the seminars.

Fire - October 29-31 in the Plant Pathology Greenhouse Classroom. One-hour training sessions and extinguisher demonstrations will be given to groups of 20-25 by Dan Siegler. Call Roger Meissner at 4-3631 or e-mail: meiss003@maroon.tc.umn.edu to reserve a time.

Times available are: Tuesday, October 29 - 9:00, 10:00, 11:00, 1:00, 2:00; Wednesday, October 30, 1:00, 2:00; Thursday, October 31, 9:00, 10:00, 11:00, 1:00, 2:00.

Recent Changes to the EPA Worker Protection Standard - November 5 at 10:30 a.m. in 335 Borlaug Hall. A one-hour session will feature Dean Herzfeld updating the changes to the WPS and the RCT providing details of training and procedures on the St. Paul Campus. All those who apply pesticides or work in pesticide-treated areas should attend.

MN Employee Right-to-Know Act - November 12 in 335 Borlaug Hall. This session trains employees about non-laboratory hazards in the workplace. Dan Siegler will be the speaker. Call Roger Meissner at 4-3631 or e-mail: meiss003@maroon.tc.umn.edu to reserve a time. Times available are: 9:00, 10:00, 11:00 and 1:00.

### Seminars

October 21 Plant Breeding, Dale Hicks, Cultivar choices: Making the difficult decision, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, and Climate, Glenn Davis, Update on site specific N management in Minnesota, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

October 22 Plant Biological Sciences Colloquium, Dan Szymanski, Regulation of the assembly of a multi-protein-DNA complex on the *Arabidopsis* calmodular-3 promoter, 3:30 p.m., 306 Borlaug Hall.

October 23 SPECIAL SEMINAR, Joachim Schulze, Carbon expenditure for nitrogen fixation, 9:00 a.m., 408 Hayes Hall.

October 25 Biosystems and Agricultural Engineering, Warren Poole, Duckweed for wastewater treatment, 1:30 p.m., 106 BioAgEng.

Biotechnology, Gary Stacey, Regulation of nod gene expression in *Bradyrhizobium japonicum*, 2:30 p.m., 239 Gortner Lab.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

CENTER FOR RURAL AFFAIRS (Walthill, NE)  
Program Leader. Responsible for the Center's program and staff.

Closing date: November 19, 1996

Project Staff. Experience in policy advocacy and organizing are desirable.

Closing date: November 19, 1996

INSTITUTE FOR AGRICULTURE AND TRADE POLICY

Policy Analyst. Intellectual Property, Biotechnology and Biodiversity Project. Gather official documents from governments, write policy statements, assist with fund-raising, and attend meetings, conferences and other events.

KANSAS STATE UNIVERSITY, Department of  
Agronomy, Crop, Soil, and Range Sciences  
Graduate Research Assistant, Sustainable  
Cropping. B.S. in agronomy.

Closing date: January 1997

Research Assistant, Canola Breeding. B.S. or M.S.  
in agronomy.

Closing date: January 1, 1997

Graduate Research Assistant, Soil Microbiology.  
B.S. or M.S. in soil science.

Closing date: ASAP

Graduate Research Assistant, Weed Physiology.  
B.S. or M.S. in crop science.

Closing date: Until suitable candidate is found  
Graduate Research Assistant, Forages. B.S. or M.S.  
in agronomy.

Closing date: January 1, 1997

Research Assistant, Grass Breeding. M.S. in  
agronomy.

Closing date: June 1997

#### LAND STEWARDSHIP PROJECT

Community Organizer, Lewiston, MN. Good  
rapport with farm and rural people. Commitment  
to land stewardship ethics, family farm and rural  
community vitality.

Closing date: October 28, 1996

#### MIDLAND CERTIFIED REAGENT COMPANY

Two molecular biologists. B.S. or M.S. in molecular  
biology, microbiology, or cell biology.

#### NORTH CAROLINA STATE UNIVERSITY

Assistant Professor, Soil Science Department.  
Ph.D. in soil science with training in soil  
fertility/soil chemistry. Tenure-track, 91%  
extension, 9% research.

Closing date: December 2, 1996

#### PENNSYLVANIA STATE UNIVERSITY

Assistant Professor of Environmental Soil Science,  
Department of Agronomy. Ph.D. in soil science.  
Tenure-track, 12 month position, 80% extension and  
20% research.

Closing date: January 1, 1997

#### USDA (St. Paul)

Biological Science Laboratory Technician. B.S. in  
biology, chemistry, agriculture or mathematics.

Closing date: October 21, 1996

#### UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Agent, Cooperative Extension. M.S. or  
B.S. in agriculture field.

Closing date: November 11, 1996



# Agronomy Gleanings

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Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

October 25, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Congratulations

Congratulations to Jonathan Shaver and Iris Tzafrir who were married on Sunday, October 20.

Congratulations to Michael Peel who passed his Ph.D. final exam.

## Announcements

The Minnesota Crop Improvement Association Seed Directory for 1997 Planting is now available. It is accessible through the internet at <http://www.agboard.com>, through MCIA's homepage at <http://www.rtrade.org/mcia> and by calling the MCIA office at 625-7766. Thank you.  
Jennifer Sweney

ASA meeting attendees are invited to an awards reception on Wednesday evening after the banquet in Howard Rine's room in the Embassy Suites. Vernon Cardwell and Howard Rines co-hosts.

Employee Health and Benefits Fair will be held at the North Star Ballroom next Tuesday, October 29 from 10:00 a.m. to 3:00 p.m. Meet with representatives from health insurance and retirement carriers. Free health screenings and drawings for gifts will be given away. Seminars on travel tips, ergonomics, saving and investing, stress and acupuncture will be given. Check flyer at front desk in 411 Borlaug Hall for specific times. Everyone is encouraged to attend.

Daylight Savings Time Ends on Sunday, October 27. Set your clocks back one hour.

The Alumni Association stopped by the office today with Goldie to check to see if we were wearing Maroon and Gold today. Congratulations to Don Rasmusson, Muriel Mapes and Pat Kessler who won t-shirts. Key chains were given to Maralee, Jean, Marilyn and Lynne. They will be back again, so remember to wear your Maroon and Gold on Casual Friday's.

**Safety Awareness Program: FIRE** - October 29-31 in the Plant Pathology Greenhouse Classroom. One-hour training sessions and extinguisher demonstrations will be given to groups of 20-25 by Dan Siegler. Call Roger Meissner at 4-3631 or e-mail: [meiss003@maroon.tc.umn.edu](mailto:meiss003@maroon.tc.umn.edu) to reserve a time.

## Seminars

October 28 **Plant Breeding**, Carroll Vance, Enhanced agricultural sustainability through biological nitrogen fixation, 3:30 p.m., 306 Borlaug Hall.

**Soil, Water, and Climate**, Paul Fixen, The future of the Potash and Phosphate Institute, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

**Plant Molecular Genetics**, Neil Olszewski, Banana streak virus integration into the genome of banana: Evidence and significance, 12:00 noon, 306 Borlaug Hall. Cookies and beverages provided.

October 29 **Plant Biological Sciences Colloquium**, Nora Plesofsky-Vig, The small heat shock protein HSP30 protects *Neurospora* cells from injury at high temperature, 3:30 p.m., 306 Borlaug Hall.

November 1 **Biosystems and Agricultural Engineering**, Phil Perkins, Creative innovation in food product and process development, 1:30 p.m., 106 BioAgEng.

**Biotechnology**, Stan Gelvin, Agrobacterium and plant genetics involved in T-DNA transfer and integration, 2:30 p.m., D230 Mayo.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

IOWA STATE UNIVERSITY  
Assistant Professor, Department of Horticulture.  
Ph.D. in horticulture, agronomy or related agricultural or biological science. Tenure-track, 12-month position, 70% extension and 30% research.  
Closing date: January 1, 1997

MONTANA STATE UNIVERSITY  
Assistant/Associate Professor, Department of Plant, Soil and Environmental Sciences. Ph.D. in weed science, agronomy, crop science, or related discipline. Closing date: January 15, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
November 1, 1996

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Reminder to all Faculty that open interviews for Research Assistants at the ASA meetings will be on Sunday, November 3 from 1:00-4:30 p.m. in Exhibit Hall 3 at the Indiana Convention Center.

Northrup King Committee will sponsor a three-day program of 'The Seven Habits of Highly Effective People' from 8:00 a.m. - 4:30 p.m. on December 17-19, 1996. All costs for participants from the Department of Agronomy and Plant Genetics will be covered by Northrup King Committee funds. To register call 4-1268 or e-mail holex001@maroon.tc.umn.edu.

## Greenhouse Users

November 4th is a clean up/watering day.

\*\*Remember to pull any weeds you have growing on your benches or in your pots.

\*\*Pots/containers should not be sitting around in your greenhouses. If you have pot racks in your greenhouse, please use them. If you don't, your pots should be stored in the headhouse.

\*\*All other containers-watering cans, fertilizer bottles, etc. should be stored in the head house, if you have questions about where, please see me.

\*\*And, of course, don't forget to sweep!!

Thanks for your help. Things are looking good!!

PERSONAL PLANTS are allowed at NW house 4. Please keep your pots and benches weed free and your plants insect free (as insect free as possible).

## Training Sessions

A one-hour training session "Recent Changes to the EPA Worker Protection Standard" will be held on Tuesday, November 5 at 10:00 a.m. in 335 Borlaug Hall. All PERSONNEL who are pesticide applicators or who work in pesticide-treated areas should attend. Dean Herzfeld will be updating the changes to the WPS and the RCT providing details of training and procedures.

MN Employee Right-to-Know Act - Tuesday, November 12 in 335 Borlaug Hall. This session trains employees about non-laboratory hazards in the workplace. Dan Siegler will be the speaker. To register, call Roger Meissner at 4-3631 or e-mail meiss003@maroon.tc.umn.edu to reserve a time. Times available are: 9:00, 10:00, 11:00 and 1:00. All employees should attend this session for MERTKA requirements.

## New Crosswalk

The Minnesota Department of Public Safety reminds drivers that as of September 1, an amendment to the pedestrian safety law requires drivers to stop and yield to pedestrians crossing streets within a marked crosswalk or within any crosswalk at an intersection. The amendment was passed by the 1996 Legislature.

The new law pertains to crosswalks, marked or unmarked, where there are no traffic control signals in place. An unmarked crosswalk is defined by the area falling within the boundary of lateral lines if you were to extend the sidewalks across the street of highway.

The new law requires the driver to stop to yield to the pedestrian, but also specifies that pedestrians shall not suddenly walk or run into the path of a vehicle which is so close that it is impossible for the driver to stop to yield.

The Department of Public Safety says drivers should be cautioned to:

- Stop if they are proceeding into or through a crosswalk that will cross the path of a pedestrian.
- Watch for pedestrian traffic while approaching an intersection, preparing to stop if a pedestrian is also approaching the intersection or already is in the crosswalk.
- Be in control of their vehicle at all times and be prepared to stop as they approach any crosswalk or intersection.

Pedestrians should:

- Not start into a crosswalk if a vehicle is approaching at a distance or speed that would not allow the driver to stop safely.
- Be aware that the law does not allow pedestrians to cross without personal responsibility for their safety.
- Follow all traffic control signals and devices which are in place.

Anyone violating the law will be, on conviction, guilty of a misdemeanor and subject to 90 days in jail or a fine of \$700 or both. A second violation within one year will be a gross misdemeanor punishable by not more than a year in jail or a fine of \$3,000 or both.

### Seminars

November 5 Plant Biological Sciences Colloquium, Sandra Orcutt, Expression and function of two *Arabidopsis thaliana* histone H1 genes, 3:30 p.m., 306 Borlaug Hall.

November 8 Biosystems and Agricultural Engineering, Kurt Deter, Practical issues in Minnesota drainage laws, 1:30 p.m., 106 BioAgEng.

Biotechnology, David Hodgson, Bacterial suntans and "mad" monarchs: The molecular basis of light-induction of gene expression in *Myxococcus Xanthus*, 2:30 p.m., 239 Gortner Laboratory.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### CLIENT SERVICES

Project Manager. Research, development and production of hybrid seeds. Six years experience managing computer support within a research environment, degree in plant breeding, genetics or agronomy.

#### IOWA STATE UNIVERSITY

Assistant Professor, Departments of Horticulture and Agronomy. Tenure-track position, 70% extension and 30% research. Ph.D. in horticulture, agronomy, or a related agricultural science.

Closing date: December 1, 1996

#### SOUTH DAKOTA STATE UNIVERSITY

Chemist, Olson Biochemistry Laboratories. B.S. in chemistry.

Closing date: November 5, 1996

#### TEXAS LUTHERAN UNIVERSITY

Assistant Professor, Department of Biology. Tenure-track position with emphasis on ecology.

Closing date: January 6, 1997

#### UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Agent, Cooperative Extension. M.S. in agriculture.

Closing date: November 25, 1996

#### UNIVERSITIES SPACE RESEARCH ASSOCIATION

Senior scientists for collaboration on scientific research relating to the observation, analysis, and modeling of ocean and ice processes.

Closing date: March 15, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

November 8, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Congratulations

Congratulations to Jonathan Shaver who has been selected as the recipient of the H.K. Hayes Graduate Student Award.

Nine members of the Gopher Crops and Soils Club attended the ASA, CSSA, SSSA meetings this week in Indianapolis, Indiana. The undergraduate club participated in many activities and contests of the Student Activities Subdivision, in addition to having the opportunity to attend poster and paper presentations.

The students made an excellent show in the Agronomy Quiz Bowl, placing 2nd out of 32 teams, being defeated only by the well-represented Oklahoma State University. The club was also recognized for their leadership and promotion activities, placing 2nd in this category of the Achievement Contest and 3rd for their social activities.

As individuals, Ryan Lee, Barb Wingen and Sharon Gherity participated in the Manuscript Contest. Sharon Gherity placed first in the country with her paper on the patenting of genes. The winning manuscript will be published in the Journal of Natural Resources and Life Sciences Education. The University of Minnesota was well represented in the Speech Contest by William (B.J.) Patzoldt, in which he addressed the social impacts of precision agriculture in the 21st century.

Sharon Gherity will serve as the student chairperson of the Manuscript Committee for the meetings next year in Anaheim, California.

The Gopher Crops and Soils Club would like to thank the Department of Agronomy and Plant Genetics for their support in helping us to attend the ASA, CSSA, SSSA meetings this year.

## Announcements

Northrup King Committee will sponsor a three-day program of 'The Seven Habits of Highly Effective People' from 8:00 a.m. - 4:30 p.m. on December 17-19, 1996. All costs for participants from the Department of Agronomy and Plant Genetics will be covered by Northrup King Committee funds. To register call 4-1268 or e-mail holex001@maroon.tc.umn.edu.

## Training Sessions on MN Employee Right-to-Know Act - Tuesday, November 12 in 335 Borlaug Hall.

This session trains employees about non-laboratory hazards in the workplace. Dan Siegler will be the speaker. To register, call Roger Meissner at 4-3631 or e-mail meiss003@maroon.tc.umn.edu to reserve a time. Times available are: 9:00, 10:00, 11:00 and 1:00. All employees should attend this session for MERTKA requirements.

Graduate Students: You may obtain a winter quarter class schedule in one of the campus bookstores or view it on the Web at <http://www.umn.edu/register>. Copies of the class schedule are not available through the department.

The 1996 Ski Swap will be held at the St. Paul Student Center on November 14, 15, and 16. Bring in your gear to sell on November 12 and 13. New and used skis, snowshoes, winter gear, jackets, gloves, hats, boots and more will be sold.

Would you like a CAT? I have been taking care of Pearl for four months but feel I do not have the time she deserves and her stay is not working out in the house where I live. Pearl is a small grey cat. She is affectionate and content indoors though she also roamed outdoors during the summer. If you would like to meet her, please get in touch with me. Thanks! Jean-Luc Jannink, 306 Hayes Hall, 5-5131. Home #: 729-3320.

A five dollar bill was found on the floor in the Growth Chambers (121 Borlaug Hall) on Wednesday, November 7. If this is yours, please see Pat in 411 Borlaug Hall.

## Request for Proposals

The Minnesota Soybean Research and Promotion Council (MSR&PC) invites interested and qualified individuals, organizations and institutions to address the current research priorities of the MSR&PC. Due date is December 2, 1996. See Jeanne for applications and instructions.

## Community Charitable Partnership

A reminder that Friday, November 15 is the last day to make a contribution to the 1996 Community Campaign.

### **Brown Bag Discussion**

Evgueni Ananiev, TBA, Friday, November 15 at 12:00 noon in 306 Borlaug Hall. Everyone is welcome to attend.

### **Seminars**

November 11 Plant Breeding, Robert Busch, Breeding for scab resistance in wheat, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, and Climate, Paul Bloom, Restoration of soil and groundwater at the Twin City Army Ammunition Plant: The largest super fund site in Minnesota, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

Plant Molecular Genetics, Dariush Danesh, Construction and screening of a bacterial artificial chromosome library for soybean, 12:00 noon, 306 Borlaug Hall. Cookies and beverages provided.

November 12 Plant Biological Sciences Colloquium, Thomas Guilfoyle, Auxing-regulated transcription: Cis-elements and trans-factors, 3:30 p.m., 306 Borlaug Hall.

November 15 Biosystems and Agricultural Engineering, John Nieber, Modeling of flow and transport processes in porous media, 1:30 p.m., 106 BioAgEng.

Biotechnology, Todd Klaenhammer, Gene expression and metabolic engineering to control phage during milk fermentations, 2:30 p.m., Eustis Amphitheater D230 Mayo.

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

GREAT LAKES FORESTRY CENTRE  
Postdoctoral Fellow, Herbicide Physiology. Ph.D. in plant physiology or weed science.  
Closing date: November 30, 1996

UNIVERSITY OF MINNESOTA  
INFO-U Coordinator, Minnesota Extension Service.  
B.A. in communications or marketing.  
Closing date: November 21, 1996

MONTANA STATE UNIVERSITY  
Assistant/Associate Professor, Department of Plant, Soil and Environmental Sciences. Ph.D. in horticulture. Tenure-track.  
Closing date: February 15, 1997

UNIVERSITY OF NEBRASKA-LINCOLN  
Associate Program Director, INTSORMIL. Ph.D. in agricultural or social sciences. Non-tenure track position. Willingness to travel internationally, strong oral and written communication skills.  
Closing date: February 1, 1997

PIONEER HI-BRED INTERNATIONAL, INC.  
Postdoctoral Research Associate. Ph.D. in molecular biology. Conduct and interpret DNA and protein sequence homology searches.  
Closing date: November 15, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
November 15, 1996

M1W  
9 Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A farewell "hot chocolate" coffee for Mike Peel will be held on Monday, November 18 at 3:00 p.m. in 306 Borlaug Hall.

**Annual Grad Student Turkey Raffle and Sloppy Joe Feed** will be held on Tuesday, November 19 from 11:45 a.m. to 1:00 p.m. in 306 Borlaug Hall. The lunch is \$2.00 and the raffle tickets are \$1.00 which are available from the Grad Students in Agronomy and Plant Genetics. Raffle to be held at about 12:40 p.m. Winners need not be present to win. Prizes for the Turkey Raffle include two turkeys, a dinner for two, and many other fine gifts donated from various projects in the department. Please plan to attend and help support the Grad Club. See you there!!!!

Exempt W-4's submitted to payroll in 1996 expire on February 15, 1997. To avoid having taxes withheld after that date, new exempt W-4's must be received in the payroll office by 4:00 p.m. on February 14, 1997 for Biweekly and Regular Payroll.

MWR forms (Reciprocity) expire on February 18, 1997. To avoid having Minnesota taxes withheld, new forms must be in payroll by February 28, 1997. MWR forms are available from the Minnesota Department of Revenue at 296-3781. Employees should file a new W-4 form whenever there's a change in filing status, exemption allowances, or address. If you have any questions, please do not hesitate to contact the Payroll Tax Area at 624-2837 or Payroll Help Line at 624-3869.

The Gleanings will be coming out Monday mornings instead of Friday's, starting on Monday, November 25. We are going to try this to help remind you of the events you need to attend for the week. Please bring your news items to me by 4:00 p.m. on Friday to be in the Monday morning Gleanings. If you are not receiving the Gleanings by e-mail and would like to, or if you would rather receive a paper copy, please let me know (kessl001@maroon.tc.umn.edu).

Thank you, Pat

## New Growth Chambers

The new growth chambers in the Crop Services building should be available during the first week in December. Currently, they are being tested. There are four 36-sq foot chambers and seven 15 sq-foot chambers. All of the chambers have additive humidity control. Two of the 36 sq-ft chambers have high light intensity and extended height to allow for growing corn to maturity. Among the 15 sq-ft chambers, there are the following options: high light intensity (incandescent and fluorescent), HID (high intensity discharge metal halide lamps) lighting, CO<sub>2</sub> control, and complete humidity control (dehumidification plus additive humidity). All 15 sq-ft chambers have the option of connecting an autoclavable, polypropylene container underneath to collect chamber drainage. This allows for containment of any drainage when transgenic plants are grown in the chamber. The rates for the new chambers are \$5/day for the 36 sq-ft chambers and \$2.75/day for the 15 sq-ft chambers. The NSF grant that funded the purchase of the chambers stipulated that chamber fees be charged to cover maintenance. The fees are the same for all departments (Agronomy, Soils, Plant Biology, Entomology) that received new chambers. Contact Donn Vellekson (5-9765) if you need one of the new chambers.

## Brown Bag Discussion

Emily Pullins, Baboons, malaria, and eight-month maize: Overview of agricultural systems in Kenya, East Africa, Friday, November 22 at 12:00 noon in 306 Borlaug Hall. Everyone is welcome to attend.

## Special Seminar

James D. Anderson (USDA-ARS, Weed Science Lab, Beltsville, MD), "Elicitor-Induced Responses in Plant." The seminar will be held on Friday, November 22 at 10:00 a.m. in 408 Hayes Hall.

## Seminars

November 18 Plant Breeding, Lynn Litterer, Gene flow from transgenic plants to related species, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, and Climate, David Huggins, Field heterogeneity in soil-plant relations: Implications for site-specific management, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

Plant Molecular Genetics, Dariush Danesh, Construction and screening of a bacterial artificial chromosome library for soybean, 12:00 noon, 306 Borlaug Hall. Cookies and beverages provided.

November 20 Plant Biological Sciences Colloquium, Nick Waser, Iconoclastic thoughts on the role of animal pollinators on plant specialization, 3:30 p.m., 306 Borlaug Hall.

November 22 Biosystems and Agricultural Engineering, Robert Tang, The changing retail bakery industry and business international multifoods, 1:30 p.m., 106 BioAgEng.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

KANSAS STATE UNIVERSITY  
Assistant Professor, Department of Agronomy, Crop, Soil and Range Sciences. Ph.D. in plant breeding or related discipline.

Closing date: January 24, 1997

UNIVERSITY OF MINNESOTA  
Graduate Research Assistant, Minnesota Center for Survey Research.

Closing date: December 2, 1996

Assistant Professor, Department of Entomology. Ph.D. in entomology or related field. Research 70%, Teaching 30%.

Closing date: February 17, 1997

MONTANA STATE UNIVERSITY  
Assistant/Associate Professor, Department of Plant, Soil and Environmental Sciences. Ph.D. in Plant, Cereal or Food Science.

Closing date: February 1, 1997

UNIVERSITY OF NEBRASKA-LINCOLN  
Assistant Professor, Department of Agronomy, Crop, Range, Soil & Water. Ph.D. in Soil Science, Agronomy, or related discipline. Tenure-leading position, 50% research, 50% extension.

Closing date: February 15, 1997

TRUMAN STATE UNIVERSITY  
Plant Cell Biologist or Plant Physiologist and Animal Physiologist. Ph.D. degree.

Closing date: December 6, 1996

UNIVERSITY OF WISCONSIN-EXTENSION  
Agricultural Agent, Portage County. M.S. in a field of agriculture.

Closing date: December 23, 1996

### Primer on how to write good

By Sally Bulford

1. Avoid alliteration. Always
2. Prepositions are not words to end sentences with.
3. Avoid cliches like the plague. (They're old hat.)
4. Employ the vernacular.
5. Eschew ampersands & abbreviations, etc.
6. Parenthetical remarks (however relevant) are unnecessary).
7. It is wrong to ever split an infinitive.
8. Contractions aren't necessary.
9. Foreign words and phrases are not apropos.
10. One should never generalize.
11. Don't be redundant; don't use more words than necessary; it's highly superfluous.
12. Comparisons are as bad as cliches.
13. Be more or less specific.

### For Sale

Kitchen table with extender leaf and four chairs, \$20. Stuffed armchair, \$20.00. Call evenings, Linda 631-8319.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

November 25, 1996

MW  
2/26/6a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Thank you

I had my five hours of surgery on the 13th of November 1996. Doctors are satisfied with the results. I feel better everyday. I would like to thank you very much for your very significant help, your kindness and friendship. I and my family (Fatiha, Sarah, Nada and Rime) are very grateful to you and appreciate very much everything you have done to make me able to preserve my sight. Sincere thanks to all of you in the Department of Agronomy and Plant Genetics.

Mohamed Oussible

## Announcements

A faculty meeting will be held today from 1:00-3:00 p.m. in 306 Borlaug.

Reminder that Mike Martin will join the faculty for lunch on Tuesday, December 3 at 12:00 noon in 306 Borlaug Hall to discuss budgets, salaries, etc. Pizza will be served.

Whoever has a cellular phone with the # 799-4040, please see Judy or Marilyn immediately.

Note from Plant Pathology: The west end stairway of Stakman will be closed for painting from November 21 through December 2. For access to Borlaug, use Hayes Hall.

The Office Staff will hold their annual cookie party on Monday, December 16. Please mark this date on your calendars. Everyone is invited to come and try some of the homemade treats.

The University of Minnesota will be closed November 28-29 for Thanksgiving. Have a Happy Thanksgiving!

## Greenhouse Users

Reminder: Monday December 2<sup>nd</sup> is a clean up/watering Monday. Fines were issued last month.

Pamela Altermatt

## Turkey Raffle Winners

Turkey - Suzanne Livingston  
Turkey - Fabrizio Mercadal  
Turkey - Keith Henjum  
Corn dishes - Dave Somers  
Salad fixings - Ed Schiefelbein  
Chewy canola bars - Thor Seeley and Bob Peterson  
Lawn seed fixing - Marilyn Hole  
Malted milk/Whoopers - Carroll Vance  
Two cans of beef barley soup - Wayne Kennard  
Wheat Nuts - Jose Dominguez  
Soybean milk and soy sauce - Linda Smith  
Wild rice - Paul Bucciaglia  
Vegetable oil - Neal Martin  
Canola oil and margarine - Jose Dominguez  
Canola spray and liquid butter - Linda Smith  
Whole grain amaranth - Jean Swanson  
Hat - Nancy Ehlke  
Mugs - Per Olaf Lunquist, Shane Heinen,  
Oscar Riera, Shelly Whelan, Mike Olsen,  
Cristian Vladutu, Jose Dominguez

## Faculty, Staff and Graduate Students

Offering of 'The Seven Habits of Highly Effective People.'

December 17-19, 1996, 8:30 a.m. to 4:30 p.m. each day, 335 Borlaug Hall.

The Northrup King Development Committee will be sponsoring 'The Seven Habits of Highly Effective People' for members of the Agronomy and Plant Genetics Department. Don't miss this personal development opportunity. Space is limited so register now!  
(4-1268 or e-mail: [holec001@maroon.tc.umn.edu](mailto:holec001@maroon.tc.umn.edu)).  
Northrup King Development Committee

## Seminars

November 25 Plant Breeding, Emily van de Mortel, Use of molecular markers in breeding for disease resistance, 3:30 p.m., 306 Borlaug Hall.

Soil, Water, and Climate, Jenny Swanson, Pathogen removal in constructed wetlands, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.



## Seminars

November 25 Plant Molecular Genetics, Mark Schoenbeck, MAP kinases in plants: An alfalfa homologue expressed in nodules and meristems, 12:00 noon, 306 Borlaug Hall. Cookies and beverages provided.

November 26 Plant Biological Sciences Colloquium, Wen-Ping Chen, Regulation of cytosolic Ca in relation to ABA-induced chilling tolerance, 3:30 p.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

Small private high school needs teacher/farm manager to apply science and other studies to farm, manage approximately 40 acres open land and two acre organic garden with CSA, restore soils, maintain equipment, work with faculty and students. Opportunities for innovative teaching, research, expanded farm. Small apartment, salary and benefits negotiable. Send resume with references. Community School, P.O. Box B, South Tamworth, NH 03883 or bearcamp@ncia.net.

## COVENTRY UNIVERSITY

Postdoctoral student for a MPhil or Ph.D, School of Natural and Environmental Sciences.

This post is open only to U.K. nationals or nationals of other european union nations.

## UNIVERSITY OF GEORGIA

Professor and Head, Department of Crop and Soil Sciences. Ph.D. in crop and/or soil sciences. Administrative experience is desirable and strong leadership.

Closing date: January 15, 1997

## UNIVERSITY OF GUELPH

Assistant Professor in Corn Breeding and Genetics, Department of Crop Science. Ph.D. and demonstrated excellence in conducting research. Tenure-track, 85% research and 15% teaching.

Closing date: January 31, 1997

## UNIVERSITY OF TENNESSEE

Parker Chair of Excellence in Agriculture and Natural Resources. Ph.D. in an agricultural, natural resources management, or related discipline. Tenure-track; 12-month appointment.

Closing date: January 15, 1997

## A Birthday Poem

A friend in our department  
Is celebrating a big day  
He had hoped to keep it quiet  
But we laughed and said, "No way!"

This birthday could be somewhat hard  
It is the big 'Five-O.'  
He says it doesn't bother him.  
But watch him shovel snow!

His favorite word is "natural"  
And he loves to play with light.  
He rides his bike to work by day  
And cross-country skis at night!

Teaching is his first love  
Especially decision cases.  
Each year a different challenge  
With ever younger faces!

Please help him celebrate his day  
By wishing him a super year.  
But speak a little louder please  
So your voices he can hear!

HAPPY BIRTHDAY!

T., M., and K.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 2, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Reminder that Mike Martin will join the faculty for lunch tomorrow at 12:00 noon in 306 Borlaug Hall to discuss budgets, salaries, etc. Pizza will be served.

Please welcome Pirjo Peltonen-Sainio to the department as a visiting scientist on sabbatical for three and one-half months from the University of Helsinki. She will be working with Deon Stuthman and Steve Simmons on an oat physiology project concerning growth regulation and assimilate partitioning. Her office will be in 132 Borlaug Hall. Pirjo and her family will be living in City Gables Apartments (near Eustis and Larpenteur). She is here with her husband, almost five year old son and two month old daughter.

The votes have been tallied and the overwhelming majority (2:1) voted for a post-holiday social event. The Social Committee will be organizing the first "January Thaw" party on Wednesday, January 8 from 12:00 noon to 2:00 p.m. in 306 Borlaug Hall. The event will be a potluck luncheon. We'll provide plates, napkins, silverware, and beverages. We will be charging \$2.00 from each attendee to cover expenses. We will also be holding a food drive during the party, so if you bring a contribution for the food shelf we will only charge you \$1.00. Donate food, save a buck - what a deal! Mark your calendars for January 8 - we'll provide more details soon.

The Social Committee

The Minnesota Corn Research and Promotion Council and the Minnesota Corn Growers Association are currently seeking research project pre-proposal applications for fiscal year 1997. Pre-proposals are due December 13, 1996. See Jeanne for details and forms.

## Greenhouse Users

DON'T FORGET: Today is greenhouse clean up/watering day. Some of you were cleaning up last week--370A1 and 370A4 are looking great! Thanks Donn and Beth!

INSECT CONTROL: I have been releasing a lot of biological controls and the spraying has consisted of a solution of nicotina (chewing tobacco leaves steeped in hot water), lemon dish soap, and/or mint mouthwash. The recipe is from public television - Jerry Baker, "America's Master Gardener." These things seem to be working in some of our houses. There will be another release of biologicals this Wednesday. I will be releasing spidermite and aphid predators (a predatory mite and ladybugs) on the corn. The alfalfa will get thrip predators which includes a nematode and two mites.

Pamela Altermatt

## Seminars

December 2 Plant Breeding, Jean-Luc Jannink, Value of computer simulation in plant breeding, 3:30 p.m., 306 Borlaug Hall.

December 5 IPM Candidate, Bruce Potter, Current issues in IPM research and extension educational programs, 11:00 a.m., 375 Borlaug Hall.

Plant Biological Sciences, Mark Johnston, How many genes make a eukaryotic cell (and what do they do)?, 3:30 p.m., 365 Borlaug Hall.

December 6 IPM Candidate, Leo Langer, Current issues in IPM research and extension educational programs, 11:00 a.m., 306 Borlaug Hall.

Biosystems and Agricultural Engineering, Dick Nicolai, The art of smelling, 1:30 p.m., 106 Bio-AgEng.

MW  
9A, 86a

Position Announcements  
(Posted in notebook in 411 Borlaug Hall)

CASEY FARM (Saunderstown, RI)

Apprenticeships available from April 1 to October 31, with a five month minimum strongly encouraged. Housing, board, and a small stipend available.

KANSAS STATE UNIVERSITY

Assistant Professor, Department of Agronomy, Crop, Soil, and Range Sciences. Ph.D. in plant breeding or related discipline. Two or more years with grain sorghum.

Closing date: February 15, 1997

ST. OLAF COLLEGE

Assistant Professor, Department of Biology. Ph.D., postdoctoral or comparable research experience, and demonstrated experience and ability to teach.

Closing date: January 6, 1997

USDA-ARS

Biological Science Technician in Small Grains and Potato Germplasm Research. B.S. and one year of specialized experience.

Closing date: December 16, 1996

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:  
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# Agronomy Gleanings

MIN  
9/12/86a

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 9, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A farewell coffee will be held for Bob Peterson on Wednesday, December 18 from 3:00-5:00 p.m. in 306 Borlaug Hall. Everyone is invited to come.

Eric Ristau lost his checkbook last Thursday afternoon. It may have been stolen, but if you have seen it, please return it immediately to 105 Hayes Hall or 411 Borlaug Hall. Thank you.

I would like to say thanks to everyone who showed up this weekend to help with fixing up the new computer room. However, as valiant as the efforts were, we were not able to finish the room off. So we will hold off combining the rooms one more week. So this means we still have one more Saturday to fix up this room. If anyone has free time this coming Saturday from 9:00 a.m. - 5:00 p.m., you are welcome to join me. Thanks! Dean

## NEW GROWTH CHAMBERS IN CROP SERVICE:

It appears most of the new growth chambers will be ready for general use the week of December 16. In preparation for this, the local rep for the manufacturer will be giving a training session on the operation of these new chambers in 38 Crop Service on Friday, December 13 at 10:00 a.m. Anyone interested should contact me beforehand because space is limited and we are not able to accommodate a large group. The session will last about one hour. Donn Vellekson (5-9765) or e-mail at velle001@maroon.tc.umn.edu.

The Student Employment Center will be moving from 120 Fraser Hall to 170 Donhowe Building. Student Employment will be joining the Central Application Center for non-academic staffing to provide employment services for both students and non-academic staff from one location. The new office will be open on Monday, December 16.

Single Quarter Leave applications for the 1997-98 fiscal year (7/1/97 to 6/30/98) are due on January 24, 1997. This deadline will allow review and ranking by the Faculty Development Committee and review and decision by Mike Martin. The eligibility quota is nine for the COAFES. See Jeanne for application.

Nancy Ehlke has moved into her new office. She is now in 402 Hayes Hall. Her phone number is the same.

The departmental vehicles are now inside the winter location.

## GSCS News

The Gopher Crops and Soils Club held their elections on December 4.

President--Ryan Lee  
Vice President--William (B.J.) Patzoldt  
Recording Secretary--Barb Wingen  
Treasurer--Adam Johnson  
Corresponding Secretary--Karen Schwartz  
Crops-Kit Chair--Sharon Gherity  
Crops-Kit Assistant Chair--Melissa Huhn

Thanks to the outgoing executive officers for a job very well done. We are looking forward to another great year. The first general meeting of the new quarter will be held during the week of January 13. Watch for announcements.

## Greenhouse Users

I must commend the Oat Project for the great job they have been doing at greenhouse clean up. They clean up when they are finished working and they sweep their greenhouses on the clean up/watering Monday of every month. Thank you, your greenhouses are looking great!!

Pamela Altermatt

## Seminars

- December 9 Plant Molecular Genetics, Randy Giroux, A transient expression assay for evaluating the effectiveness of introduced host response genes for disease resistance in cereals, 12:00 noon, 306 Borlaug Hall.
- December 16 IPM Candidate, David Nicolai, Current issues in IPM research and extension educational programs, 11:00 a.m., 306 Borlaug Hall.
- December 17 IPM Candidate, David Stoltenberg, Current issues in IPM research and extension educational programs, 11:00 a.m., 306 Borlaug Hall.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**UNIVERSITY OF ARKANSAS**

Research Specialist, Southeast Research and Extension Center. B.S. or M.S. in crop science or closely related field.

Closing date: January 17, 1997

**UNIVERSITY OF DELAWARE**

Full/Associate Professor, Department of Plant and Soil Sciences. Ph.D. in plant biology. Tenure-track/tenured position, 12-month appointment.

Closing date: January 31, 1997

Assistant Professor, Department of Plant and Soil Science. Ph.D. in plant biology with postdoctoral experience. Tenure-track, 12-month appointment.

Closing date: March 31, 1997

**MONSANTO CROP PROTECTION**

Data Collection Manager. B.S. in agronomy or related field.

Closing date: January 1997

**PENN STATE**

Postdoctoral Researcher, Department of Horticulture. Research will focus on molecular and biochemical studies.

**USDA**

Education Program Specialist. B.A. in agricultural sciences.

Closing date: December 23, 1996

**WASHINGTON STATE UNIVERSITY**

Extension Weed Specialist E-2/Assistant Weed Scientist. Ph.D. in weed science, 75% extension and 25% research.

Closing date: March 3, 1997

# Agronomy Gleanings

MW  
Edgler

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 16, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Eric Hoeft who placed second at the Graduate Student Paper Contest at the North Central Weed Science Society Meetings in St. Louis. The paper was titled, "Control of Canada Thistle with *Pseudomonas syringae* pv. *Taetis* and Weed Competitive Soybean," Eric Hoeft, Donald Wyse, Carmen Fernholtz and David Johnson.

Congratulations to Mark Galatowitsch who was promoted to Scientist effective November 1, 1996.

A farewell coffee will be held for Bob Peterson on Wednesday, December 18 from 3:00-5:00 p.m. in 306 Borlaug Hall. Everyone is invited to come.

Minnesota Pesticide Applicators License fee forms should be brought up to Marilyn in 408 Borlaug Hall. We will do one payment to the state for everyone.

A call has been extended for research proposals on disease resistance in cereal crops to be funded by the Lieberman/Okinow Chair for Disease Resistance in 1997 and 1998. One and two year proposals will be considered, with the expectation that 50% of the 1997 funding will be devoted to each. Money is available for research at Minnesota and Tel Aviv. These proposals are due January 10, 1997 and will be reviewed at the annual Lieberman/Okinow Endowed Chair meeting in late January. Grants will generally be limited to \$5,000/yr. Contact David Long at the USDA-ARS Cereal Rust Laboratory for further details or e-mail - davidl@puccini.crl.umn.edu.

The Department of Rhetoric's On-line Writing Center will provide students with help with their writing. Students can access the writing center from any computer lab on campus. Tutors can address a wide range of writing concerns by offering three different services: E-mail tutoring -- allow students to electronically send an entire paper to a tutor for review and response; Synchronous Chat -- allow students and tutors to discuss writing concerns in real-time discourse, regardless of geographical separation; or Grammar Oracle -- provides answers to questions on grammar and mechanics when extensive discussion is not necessary (<http://www.agricola.umn.edu/owc>).

The University of Minnesota will be closed December 24 and 25 for the Christmas holiday.

## Seminars

December 17 IPM Candidate, David Stoltenberg, Current issues in IPM research and extension educational programs, 11:00 a.m., 375 Borlaug Hall.

M.S. Thesis--Animal Science, Jim Stordahl, The effect of maturity on forage yield and forage quality of amaranth, 9:00 a.m., 495 AnSc/VM.

December 19 M.S. Thesis Defense, Michael Olsen, Increasing lysine in Minnesota adapted lines of maize, 9:00 a.m., 306 Borlaug Hall.

Ph.D. Thesis Defense, Wojtek Pawlowski, Transgene integration, expression and stability in genetically engineered oat, 1:00 p.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

NEW MEXICO STATE UNIVERSITY  
Assistant Professor, Department of Agronomy and Horticulture. Ph.D. in horticulture, plant breeding or genetics. Tenure-track, 75% research and 25% teaching.

Closing date: March 15, 1997

Assistant Professor of Agronomy, Department of Agronomy and Horticulture. Ph.D. in agronomy or related discipline. Tenure-track, 75% research and 25% teaching.

Closing date: March 15, 1997

MINNESOTA COUNCIL ON FOUNDATION  
Program Manager. Manage the Council's information and research activities, including conducting research and survey projects. B.A. in public and nonprofit management, strong computer skills, strong interpersonal and communication skills.

Closing date: January 8, 1997

THE SAMUEL ROBERTS NOBLE FOUNDATION,  
INC.

Research Assistant (Post-Graduate Fellowship).  
M.S. or Ph.D. in range or forage management with  
major emphasis in range science, agronomy, plant  
ecology, or soil, plant, animal interrelationships.

Closing date: January 31, 1997

UNIVERSITY OF WISCONSIN

Outreach Specialist, Department of Rural  
Sociology and Department of Agricultural and  
Applied Economics. M.A. or M.S. in a social science  
discipline related to agriculture, Ph.D. is  
preferred.

Closing date: December 31, 1996

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 20, 1996

MIW  
9/20/96

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

The University of Minnesota will be closed on the following days:

Tuesday, December 24	Christmas Eve
Wednesday, December 25	Christmas
Wednesday, January 1	New Year's Day
Monday, January 20	Martin Luther King Day

## Network News

Have you ever broken into a cold sweat thinking you lost all of the data on your computer? Fear no more! I am offering a hard drive space for administrative units and labs within departments. For \$500, groups can help pay for the cost of a hard drive that will be installed onto the department's computer server. This \$500 is a one-time charge and will allow the group to access up to 1 gigabyte of disk space which can be used by both Macintosh or Windows computers. It can be accessed remotely from home, shared with others within the University or at remote locations, and it will be backed up each night automatically. You can use the disk space for as long as you want and backups will continue for as long as desired. If you are interested, please contact me ASAP at 625-2721 or at deanf@coafes.umn.edu. Dean Flanders

## Greenhouse Users

I will be gone Monday and Tuesday, December 30th and 31st. Everybody needs to do their own watering.

Monday, January 6th is a clean up/watering day. Anybody not sweeping their greenhouses will be fined.

When you move plant materials and soil, clean up behind yourselves. This includes any other greenhouses that you had to go through. Thanks.

Pamela Altermatt

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### CLARK CONSULTING INTERNATIONAL, INC.

California Pest Control Advisor. B.S. in agricultural or biological sciences and a California Pest Control Advisors License. Monitor client fields, provide pest control recommendation and coordinate pesticide applications with cultural operations.

### COLORADO STATE UNIVERSITY

Assistant Manager, Department of Horticulture and Landscape Architecture. M.S. in plant pathology, horticulture, or agronomy.

Closing date: January 31, 1997

### UNIVERSITY OF ILLINOIS

Assistant Professor of Molecular Weed Science, Department of Crop Sciences. Ph.D. in plant science. Tenure-track, nine-month position, 70% research and 30% teaching.

Closing date: February 14, 1997

### KANSAS STATE UNIVERSITY

Wheat Geneticist, Agronomy Department (USDA-ARS). B.S. in genetics.

Closing date: January 16, 1997

### PURDUE UNIVERSITY

Two Assistant Professor positions, Department of Biochemistry. Tenure-track. One of the positions will employ innovative approaches to investigate fundamental problems in plant biochemistry and molecular biology. The other position will do research in areas of eukaryotic biochemistry and molecular biology.





# Agronomy Gleanings

MW  
9 Ag 769

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 30, 1996

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A faculty meeting will be held on Monday, January 6 at 1:00 p.m. in 306 Borlaug Hall.

Reminder that the Pesticide Applicator Workshop Applications are due to Marilyn for the January 22 training. Be sure to indicate somewhere on your application the CUFS number for payment.

If you are renewing your pesticide license, please turn this application into Marilyn also. Be sure to include a CUFS number. The applications will be processed so that one payment will be made to the Minnesota Department of Agriculture. Your cooperation will be appreciated. Marilyn

The Administrative Council of the North Central Region (NCR) Sustainable Agriculture Research and Education Program (SARE) is pleased to announce the FY 1997 Request for Proposals for Professional Development Program (PDP) Grants. February 14, 1997, is the deadline for receipt of the proposals to be included in the FY 1997 competition. See Jeanne for details.

## Greenhouse Users

I will be gone on Monday and Tuesday, December 30th and 31st. Everybody needs to do their own watering.

Monday, January 6th, is a clean up/watering day. Everybody needs to sweep!! Thanks for your help!!

Pamela Altermatt

## Brown Bag Discussion

Carroll Vance, TBA, Friday, January 10 at 12:00 noon in 306 Borlaug Hall.

## Seminars

January 6 Plant Molecular Genetics, Paul Bucciaglia, Inducible Senescence: An applied concept in search of a molecular mechanism, 12:00 noon, 239 Gortner.

Agronomy and Plant Genetics, Steve Tanksley, Molecular breeding and positional cloning in tomato, 3:30 p.m., 335 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

KANSAS STATE UNIVERSITY  
Research Assistant, Department of Agronomy.  
M.S. in agronomy or soil science.  
Closing date: January 13, 1997

UNIVERSITY OF OKLAHOMA  
Assistant/Associate Curator of the Bebb Herbarium and Assistant/Associate Professor of Botany, Department of Botany and Microbiology.  
Ph.D. required.  
Closing date: February 3, 1997

UNIVERSITY OF WISCONSIN  
Livestock Assistant, Cooperative Extension. B.S. in agriculture.  
Closing date: January 20, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
January 6, 1997

MW  
2/2/86

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Thank You

I would like to thank you for the wonderful reception you had for my retirement. Your attendance and expressions of good wishes will remain with us for a long time.

The rocking chair and blanket will be long time reminders of a great department and its' good people. My plans are to sit in that rocking chair for about six months and then I will start rocking.

Thanks again for your friendship and the privilege to work in a great department.

Sincerely,  
Bob Peterson

Please give a warm welcome to Claudia Castell who will be arriving today from Argentina. She will be a new graduate student with Deon Stuthman.

Important: PLEASE note that 1996 W-2 forms were distributed with December 31 paychecks.

The Twin Cities Regional Science Fair is asking for participation to help judge and encourage young scientists at this year's fair. Three Science Fairs will be held simultaneously at Augsburg College on March 7 and 8. A paper judging will be held February 3 at 4:00 p.m. in 128A of Synder Hall on the St. Paul Campus. Orals will be held on February 18 at 4:00 p.m. in Synder Hall. You may choose to judge projects, papers, written or orals or all four. For any questions, please contact David W. Miller or Judy Reynolds-Miller at 612-291-8159. The information is also posted on the bulletin board outside 411 Borlaug Hall.

## Announcements

Reminder!

The first Agronomy & Plant Genetics "January Thaw" party will take place:

Wednesday, January 8, 1997  
Noon until 2:00 p.m.  
306 Borlaug Hall  
Potluck luncheon and Food Drive

Cost: \$2.00 without a food drive donation; \$1.00 with a donation. We'll provide beverages, plates, bowls, napkins, silverware and prizes!

Come and Celebrate the New Year with the  
Agronomy & Plant Genetics Department

Schedule - Wednesday, January 8

8:00 - 9:00 a.m. -- Bring your potluck items to the kitchen in Borlaug Hall 306.

Noon: Potluck Luncheon Begins. Don't forget to bring your food bank donation to the door to receive a \$1.00 discount.

1:15 (or so): Drawing for prizes!

Questions? Contact Helene Murray (625-0220) or Jeff Gunsolus (625-8130), co-chairs of the Social Committee. The Social Committee

Swine Day will be held at the West Central Experiment Station in Morris on Thursday, January 9. Registration begins at 9:00 a.m. Contact Chris Staebler at 320-589-1711 for any questions.

## Brown Bag Discussion

Carroll Vance, TBA, Friday, January 10 at 12:00 noon in 306 Borlaug Hall.

## Seminars

January 6 Plant Molecular Genetics, Paul Bucciaglia, Inducible senescence: An applied concept in search of a molecular mechanism, 12:00 noon, 239 Gortner.

Plant Breeding, Steve Tanksley, Molecular breeding and positional cloning in tomato, 3:30 p.m., 335 Borlaug Hall.

January 7 Plant Biological Sciences, Linda Graham, The origin of land plants and its biogeochemical significance, 3:30 p.m., 306 Borlaug Hall.

January 9 Soil, Water, and Climate, Cameron  
J.P. Gourley and Sharon R. Aarons,  
Pasture, phosphorus, and milk:  
Highly profitable dairy systems in  
Australia, 2:00 p.m., 335 Borlaug  
Hall.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

MICHIGAN STATE UNIVERSITY  
Assistant Professor in Horticulture Curator of 4-H  
Children's Garden and MSU Extension Specialist.  
Ph.D. in horticulture, 12-month, tenure-track,  
50% extension/outreach, 25% teaching and 25%  
research.  
Closing date: February 17, 1996

OREGON STATE UNIVERSITY  
Faculty Research Assistant, Malheur Experiment  
Station. M.S. in agronomy, crop science, soil  
science, or related discipline. Three years  
field/laboratory experience is preferred.  
Closing date: March 15, 1997

U.S. AGENCY FOR INTERNATIONAL  
DEVELOPMENT (Nigeria)  
Programming Specialist. Need to be a U.S.  
citizens and have a university degree in  
economics, business, development planning or  
related field. Eight years of experience and  
knowledge of USAID programming systems.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
January 13, 1997

MIW  
g Ag 86a

The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.

## Announcements

**REMINDER TO LABORATORY/PROJECT SUPERVISORS** - It is mandatory that new employees view training films appropriate to their job assignments (contact Teresa), and MERTKA training record forms be completed. Please make sure that a copy of the forms are sent to Jeanne. It is also mandatory that all personnel (faculty, civil service, and students) participate in the annual retraining program sponsored by the College and that forms are on file in the department.

Ramsey County Pollution Control Agency has informed the University's Department of Environmental Health and Safety that they plan to inspect the St. Paul Campus this January. Please be sure that your labs are in compliance for hazardous waste regulations. Failure to comply may result in citations and fines. The fines are the responsibility of the department. Remember that the most common hazardous waste violations are: improperly stored chemicals and waste, improperly segregated waste (must be segregated by DDC#), lack of training of faculty, staff, and students (initial training, annual retraining), lack of documentation of training, hazardous waste in sewer or trash, wastes not evaluated (no label or MSDS), improper labeling of chemicals and wastes containers not closed (can't have a funnel in a waste container), lack of secondary containment for wastes (secondary containment trays required), lack of weekly inspections (and documentation of these inspections) for wastes stored remotely (e.g. in a room you do not work in), and improperly filled out waste forms.

Mike McClellan

Winter Crops and Soils Day will be held Tuesday, January 14 at the University of Minnesota-Morris Campus. Registration begins at 8:30 a.m.

The postal service has a web site for Zip Code look-up: <http://www.usps.gov/ncsc/>.

The acting head of the Department of Food Science and Nutrition will be Joe Warthesen from now until December 31, 1997. Frank Busta will be on a year-long sabbatical at 3M during that time.

## Computer Seminar

The once a week computer seminar series will be starting Wednesday, January 15 from 12:10 to 1:00 p.m. in 365 Borlaug Hall. The title of the first seminar is:

An Introduction to Client/Server Computing, Networks, and the Internet  
by Dean Flanders

These are very informal so feel free to bring your lunch and ask lots of questions. I will shortly be publishing the schedule of the series for the quarter, however, they will all be held from 12:10 to 1:00 p.m. in 365 Borlaug Hall each Wednesday of each quarter.

## Computer Room

If you need the computer room combination, please contact Dean Flanders at 625-2721 / pager 530-7284. The computer room is located in 304 Stakman Hall. If you are an undergraduate, you need to get permission from Dean before you use the computer room. All civil service, faculty and graduate students can use the computer room anytime.

## Greenhouse Users

Most of the greenhouses looked great last week! Thanks everyone!!

We have started spraying chemicals in the greenhouses. Duraguard + Azatin are being sprayed in the following houses: 370C1 & 3, 370A1 & 2, spot spraying in Teaching and Weeds 1 & 2. This is being sprayed for thrips but is labeled to work on other insects. The spraying is scheduled to be done on Tuesday and Friday evenings. Remember the greenhouses are closed on Saturdays. Any problems please let me know.

The soil carts should all be full and back in the normal spots.  
Pamela Altermatt

## Welcome

We have four new graduate students in the Plant Breeding Graduate Program for winter quarter. Please welcome Claudia Castell, working on the M.S. with Deon Stuthman, Mike Tollefson, working on the M.S. with Nancy Ehlke, Jennifer Folstad, working on the M.S. with Deon Stuthman, and Mary Ann Start working on the M.S. Also, Heidi Mickelson has returned to complete her Ph.D. in Plant Breeding with Robert Busch.

## Gopher Crops & Soils Club News

**Chili Supper - FREE.** All students and faculty are invited to a free chili supper to start off the new quarter and to learn more about the Gopher Crops and Soils Club. It will be held this Wednesday, January 15 at 5:30 p.m. in 306 Borlaug Hall.

Professors - Please invite your classes to attend.

## Holiday Schedule for Fiscal Year 1997-98 (Twin Cities)

July 4, 1997 (Friday), Independence Day  
September 1, 1997 (Monday), Labor Day  
November 27, 1997 (Thursday), Thanksgiving  
November 28, 1997 (Friday), Floating Holiday  
December 24, 1997 (Wed.), Floating Holiday  
December 25, 1997 (Thursday), Christmas Day  
\*\*December 26, 1997 (Friday), Floating Holiday  
January 1, 1998 (Thursday), New Year's Day  
January 2, 1998 (Friday), Floating Holiday  
January 19, 1998 (Monday), Martin Luther King Day

\*\*December 26 has been selected as the 11th holiday in lieu of a personal holiday for 97-98.

## Brown Bag Discussion

Jean-Luc Jannink, Strong inference in agronomy?, Friday, January 17, 12:00 noon, 306 Borlaug Hall.

## Seminars

January 13 Plant Breeding, Jeff McElroy, Towards durable resistance through gene pyramiding, 3:30 p.m., 306 Borlaug Hall.

Animal Science Seminar, Steve Morse, How the Legislature views the role of the Department of Animal Science in impacting the state economy, 3:00 p.m., 25b COB. Coffee and cookies will be served.

Plant Pathology, E.E. Banttari Day, 3:40 p.m., 335 Borlaug Hall.

Soil Science, Ron Reuter, Flow characteristics of perched water in loss of northern Idaho, 3:00 p.m., 375 Borlaug Hall.

January 14 Plant Biological Sciences, Randy Woodson, Ethylene and the sex life of flowers, 3:30 p.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF MINNESOTA  
Scientist, West Central Experiment Station, Morris, MN. B.S. in agronomy or related field and relevant experience to including agronomy field plot research, computer experience, and experience with SAS for a total of eight years.  
Closing date: January 17, 1997

PIONEER HI-BRED INTERNATIONAL, INC.  
Precision Farming Agronomist. M.S. in agronomy or soils. Minimum of three to five years field experience either related to site specific crop management, or experience coordinating on-farm research on field crops.

UNIVERSITY OF SASKATCHEWAN  
Malting Barley Breeder. Knowledge of traditional and molecular approaches to breeding.

Closing date: January 15, 1997

Postdoctoral Fellow on barley breeding project. Evaluation of germplasm for traditional and novel traits and the relationship of these traits to biotechnological manipulation.

Closing date: January 31, 1997

WASHINGTON STATE UNIVERSITY  
Assistant Turfgrass Research Agronomist. Ph.D. in agronomy or horticulture.

Closing date: March 31, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
January 21, 1997

MW  
9/2/6a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Wayne and Mary Kennard on their new baby girl born on Thursday, January 16. Lexington Marie was 7 lbs. 3 oz.

A Civil Service meeting will be held on Thursday, January 23 at 9:30 a.m. in 408 Hayes Hall. Donuts and muffins provided. Topics will include: Election of new liaison committee members, credit card information, MSDS and chemical waste information, update on union situation, and any other topics you would like to discuss. All Civil Service Employees should attend.

There is going to be a training session in 306 Borlaug Hall for Credit Card Customers on Thursday, January 23 at 10:30 a.m. If you have signed up for a credit card and haven't had training yet, this is your chance. You will probably receive your credit card at the class. For those of you who have not signed up for credit cards, what are you waiting for? You could probably sit in on the class and find out some more information on it.

The St. Paul Campus Postal Station is now open in the Student Center by the old candy counter. The candy counter has been moved to the Games Room. You can mail letters or packages, purchase a commemorative stamp or get express mail off in a hurry, you can send a fax, purchase discount movie tickets, laminate your report cover page, purchase Computer Lab Laser Print Cards, book a ride to the airport on Premier Transportation, purchase pre-paid telephone cards and MCTO bus passes, and soon to come, pick up packaging envelopes and materials. Hours are 8:00 a.m. to 7:00 p.m., Monday through Friday, phone # 625-9794.

OPEN HOUSE CELEBRATION will be held on January 21, 1997 to celebrate their new office: College of Agricultural, Food, and Environmental Sciences

Student Affairs Office  
Tuesday, January 21, 1997  
2:30 - 4:30 p.m., 120 Biosystems and Agricultural Engineering Building  
St. Paul Campus

Telecommunications and information systems are vital tools for the economic and cultural activities of our society. What telecommunications policies will promote economic development and growth, enhance health care, support education, and energize citizenship? How can industry, public institutions, citizens, and policy makers interface to address these far-reaching issues? To address these and other telecommunications policy questions that are vital to our state, the Humphrey Institute is pleased to invite you to attend the February 6, 1997, symposium "Telecommunications and Information Policy: Doing It Right In Minnesota." See Jeanne for agenda and additional information.

**Agronomy Faculty and Staff:** All faculty and staff involved with writing research grants and managing research projects in the COAFES are requested to attend a workshop provided by ORTTA. The purpose of the workshop will be to inform COAFES personnel about research policies, regulations, and procedures for which we need to comply with when doing research at the University of Minnesota. The workshop is being offered at four different times to accommodate the varying of schedules of COAFES personnel.

### Dates of sessions:

- Tuesday, January 28, 3:00-6:30 p.m., Room 62, Earle Brown Center;
- Monday, February 10, 1:00-4:30 p.m., Room 155, Earle Brown Center;
- Thursday, March 6, 8:30 a.m. to 12:00 noon, Room 62, Earle Brown Center;
- Wednesday, March 19, 3:00-6:30 p.m., Room 62, Earle Brown Center.

So that we will have enough instructional materials and refreshments at each session, please sign up in 411 Borlaug Hall.

### Brown Bag Discussion

Mike Olsen, Experimental Designs for Protocol Optimization, January 24 at 12:00 noon in 306 Borlaug Hall.

### Grants Received

Molecular Genetics and Functions of Maize ACCase, Burle Gengenbach and Peggy Egli, \$97,147 - 9/1/96-8/31/98.

Foxtail Management in Wheat Based on Bioeconomic Modeling, Bev Durgan, Jeff Gunsolus, and Frank Forcella, \$75,000 - 9/1/96-8/31/98.

Evaluation of Elite Asian Soybean Varieties and Semi-Determinate Chinese Germplasm, Jim Orf, \$18,080 - 9/16/96-7/14/98.

### Seminars

January 21 Plant Biological Sciences, James Luby, Collecting and preserving genetic diversity in the wild apple forest of Central Asia, 3:30 p.m., 306 Borlaug Hall.

January 22 Computer Seminar Series, Dean Flanders, Fundamentals of Web Site Building, 12:10 p.m., 365 Borlaug Hall.

January 23 Ph.D. Thesis Defense, Blair L. Waldron, Breeding for improved winterhardiness in turf-type perennial ryegrass (*Lolium perenne* L.), 1:00 p.m., 306 Borlaug Hall.

Biotechnology, David Douds, Jr., *In vitro* and NMR spectroscopic studies of the interactions between host root and arbuscular mycorrhizal, 3:30 p.m., 375 Borlaug Hall.

January 27 Plant Breeding, Clara Pritsch, Molecular markers and cultivar development, 3:30 p.m., 306 Borlaug Hall.

Animal Science, Gene Hugoson, Preservation of the livestock industry in Minnesota, 3:00 p.m., 25b Classroom Office Building.

January 31 Biosystems and Agricultural Engineering, Robert Tang, The changing retail bakery industry and business, 1:30 p.m., 106 BioAgEng.

I will be providing insurance coverage to University owned computers in the Department of Agronomy and Plant Genetics and the Department of Plant Pathology. There is no charge to you for this coverage, you are only required to fill out the form for the coverage. The coverage will have a \$500 deductible and is for the replacement cost of the computer, which is generally the original cost of the computer (excluding the monitor).

The form is a web based form and can be accessed at the following address  
<http://www.crc.agri.umn.edu> under INSURANCE COVERAGE FOR COMPUTERS, or you can access it at  
<http://134.84.229.14/userinfo/insure.htm> if you have problems with the first address. Please read the form CAREFULLY and follow the directions on this form. The DEADLINE for this is January 24. I apologize for the short notice, but we have only recently received the information on this program and the registration deadline is January 24. Dean

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### CENTRAL RECRUITMENT

Plant Protection Officer in Samoa. Ph.D. in subject related to plant protection, knowledge of issues in the sub-region and some knowledge of French desirable.

Closing date: January 24, 1997

#### FORT VALLEY STATE UNIVERSITY

Research Associate, Agricultural Research Station. Ph.D. in plant science with expertise and success in plant regeneration and transformation.

Closing date: March 1, 1997

#### HARMONY VALLEY FARM

Packing Shed Specialist; Field Operations Specialist; Farm Generalist; Farm Chef. Salary based on experience and responsibilities.

#### USDA FOREST SERVICE

Biological Science Laboratory Technician, North Central Experiment Station. B.S. in molecular biology, plant science or biochemistry.

#### UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Agent, Portage County. M.S. in agriculture.

Closing date: February 10, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
January 27, 1997

MIN  
2 Ag 86a

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Kate Plaisance and Kathleen Storey who are the two new members of the Civil Service Liaison Committee. They will start July 1, 1997.

The refrigerator in 302 Borlaug Hall will be cleaned out on Wednesday, January 29 after lunch. Everything left in there will be thrown away including food and all food containers, etc. Please remove anything that is yours, or else it will be thrown away.

You are invited to attend the IFA/MAST International Winter Quarter Welcome. Come and meet the new MAST students, enjoy free refreshments and learn about different cultures. It will be held tomorrow from 11:00 a.m. to 1:00 p.m. in the Lower Terrace of the St. Paul Student Center.

The 1997-98 Minneapolis White and Yellow Pages will be delivered on Tuesday, February 11. Please recycle all your old phone books. There is a sign up sheet on the window of 411 Borlaug Hall.

## Gopher Crops & Soils Club News

This week we will be meeting with Dr. Laddie Elling who will talk to us about the history of our club and other student activities. Afterwards we will have a short work meeting to clean up the undergrad lounge and catch up on some other projects. This will be held on Wednesday, January 29 at 5:30 p.m. Free dinner too!

## Brown Bag Discussion

Roger Becker, BMP's, PMP's - Pesticide, the Environment, and You, Friday, January 31 at 12:00 noon in 306 Borlaug Hall.

## Greenhouse Users

Monday, February 3rd is a clean up/watering day. Weed control on benches and in pots is a part of the clean up. This includes NW greenhouses. 415A7 needs clean up. Everyone else is looking fairly good but please remember to sweep before watering.

Pest control: 1. Greenhouse clean up.  
2. We sprayed with Enstar + Mavrik last week and will be doing the same this week in Weeds 1 & 2, 370A1 & 2 and 370C1. Orthene was sprayed in 370C3 and out at NW. Gnatrol was also used as a soil drench out at NW. In most of the other greenhouse sections we are using biological controls with varying degrees of success. Any questions please feel free to call me 5-3153. Thanks!

Pamela Altermatt

## Seminars

January 27 **Plant Breeding**, Clara Pritsch, Molecular markers and cultivar development, 3:30 p.m., 306 Borlaug Hall.

**Animal Science**, Gene Hugoson, Preservation of the livestock industry in Minnesota, 3:00 p.m., 26b Classroom Office Building.

**Soil, Water, and Climate**, Sebastian Braum, Dairy manure management: A continuing problem, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

January 28 **Plant Biological Sciences**, Eugeni Ananieu, A system of physical mapping of maize chromosome, 3:30 p.m., 306 Borlaug Hall.

January 29 **Computer Seminar Series**, Paul Brady, The dynamic web: Designing to update, 12:10 p.m., 365 Borlaug Hall.



January 30 **Special Seminar**, Bahram Grami,  
Glutenin subunits of wheat and  
baking quality, 12:00 noon, 306  
Borlaug Hall.

**Biotechnology**, Jeremy Minshull,  
Enzyme engineering without crystal  
ball, 3:30 p.m., Eustis Amphitheater  
D230 Mayo, Minneapolis Campus.

January 31 **Biosystems and Agricultural  
Engineering**, Robert Tang, The  
changing retail bakery  
industry and business, 1:30 p.m.,  
106 BioAgEng.

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

FLORIDA INTERNATIONAL UNIVERSITY  
Assistant Professor, Department of Biological  
Sciences. Ph.D. required, postdoctoral experience  
preferred.

Closing date: February 3, 1997

MONSANTO COMPANY (Agracetus)  
Soybean Physiologist, Breeder or Geneticist.  
Ph.D. in plant physiology, plant breeding or  
genetics along with experience in nursery design,  
implementation, and crop production in agronomy.

#### **PENN STATE**

Postdoctoral Positions in Molecular Biology and  
Biochemistry of Plant Cell Growth. Contact  
Daniel Cosgrove at dCosgrove@psu.edu.

#### **SOUTH DAKOTA STATE UNIVERSITY**

Research Associate in corn breeding, Department  
of Plant Science. M.S. in agronomy or biology.

Closing date: February 17, 1997

#### **USDA-ARS**

Postdoctoral Research Associate. Ph.D. in  
agronomy, ecology, weed science, plant  
physiology or sustainable agriculture with  
background in plant interactions.

Available: immediately

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

February 3, 1997

MW  
8 Ag 86a

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

Our heartfelt prayers go out to Heidi Mickelson, a grad student in our department, who was hospitalized at St. Paul Ramsey following surgical removal of a brain tumor. She will be going home today from the hospital. A plant has been sent from the department.

The Fellowship Office of the Graduate School and COGS are co-sponsoring a class for all graduate students interested in learning how to write about their research in language accessible to the lay-reader. This skill is most useful when applying for research grants or fellowships, but is a skill every graduate student will need to master. The first class will be February 13 at 10:15 to 11:45 a.m. Enrollment is limited to 25 graduate students on a first come - first enrolled basis. If you are interested in attending, please contact the COGS office at 626-1612 or cogs@gold.tc.umn.edu. This class is free to all graduate students.

Faculty: If you have not yet signed up for one of the workshops (Responsible Research Management Workshop), please do so in 411 Borlaug Hall. The dates available are: March 6, 8:30 a.m. - 12:00 noon or March 19, 3:00-6:30 p.m.

## Greenhouse Users

REMINDER: Today is a clean up/watering day-- Everyone should sweep their greenhouse walkways. You are responsible for weed control on the benches and in the pots. The greenhouses should not be used for storage space. If you have pot racks in your greenhouses, you should be using them.

The greenhouses have been looking good. Thanks for your help. Pamela Altermatt

## Brown Bag Discussion

John McLaughlin, Thesis Proposal - Mapping genomic regions controlling maize endosperm characteristics with flow cytometry, Friday, February 7 at 12:00 noon in 306 Borlaug Hall.

## Unionization

The following paragraph was taken from a letter sent to faculty (30 January 1997) by President Hasselmo:

It is also my belief that unionization will adversely affect not only the faculty's relationship with the institution, but the future standing of the University of Minnesota. Those whom we will be recruiting, whose decisions will have major effects on the future quality of our programs, will inevitably judge Minnesota's faculty organization and governance structure against those of our peer institutions, the top 30 research universities, none of whose faculties is represented by a union. No one on either side of the unionization issue knows how prospective faculty will respond to collective bargaining versus the current faculty senate system of governance. I urge you to judge that issue based on your knowledge of the competitive marketplace within your own discipline. Donald Rasmusson

## Seminars

February 3 **Plant Breeding**, Joann Mudge, Recurrent selection in self-pollinating crops, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Consuelo Estevez de Jensen, The rise of gray leaf spot as a serious disease of maize, 2:30 p.m., 365 Borlaug Hall.

**Soil, Water, and Climate**, Angille Heintzman, Long-term crop rotations in Alberta, Canada, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

February 4 **Plant Biological Sciences**, Florence K. Gleason, Thioredoxins and the redox regulation of enzymes in photo-synthetic organisms, 3:30 p.m., 306 Borlaug Hall.

February 5 Computer Seminar Series, Dean Flanders, Backup strategies: Safeguarding your data and documents, 12:10 p.m., 365 Borlaug Hall.

February 6 Biotechnology, Alfred Spormann, Anaerobic degradation of aromatic hydrocarbons, 3:30 p.m., 375 Borlaug Hall.

February 7 Biosystems and Agricultural Engineering, Jim Frost, Rhetoric in the public debate over environmental issues, 1:30 p.m., 106 BioAgEng.

Plant Molecular Genetics, Lynn Hartweck, Hanging out at the interfaces exploration/exploitation of two plant/pathogen relationships, 2:00 p.m., 306 Borlaug Hall.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

BROOKLYN BOTANIC GARDEN  
Taxonomist. Ph.D. required with knowledge of nomenclature and competent database skills.

FOUR SEASONS FARM (Nova Scotia)  
Intern openings. Students learn by working in greenhouses as well as open field.

GRINNELL COLLEGE  
Biologist, Assistant Professor. Two-year appointment. Ph.D. required and postdoctoral experience is preferred.  
Closing date: March 14, 1997

UNIVERSITY OF ILLINOIS  
Visiting Extension Specialist (Weed Science-Pesticide Applicator Training), Department of Crop Sciences. M.S. in weed science.  
Closing date: May 16, 1997

Assistant Professor of Molecular Weed Science, Department of Crop Sciences. Ph.D. in plant science or related area is required.  
Closing date: February 14, 1997

KANSAS STATE UNIVERSITY  
Director, Kansas Center for Agricultural Resources and the Environment. Ph.D. and professor rank in a field related to agriculture and the environment. Twelve-month, full-time position.

Closing date: April 15, 1997

Graduate Research Assistant, Department of Agronomy, Crop, Soil, and Range Sciences. B.S. or M.S. in plant breeding, genetics, plant pathology or agronomy.

Available immediately

MASOALA INTEGRATED CONSERVATION AND DEVELOPMENT PROJECT  
Project Coordinator in Masoala, Madagascar. Fluency in French and extensive project management experience.

UNIVERSITY OF MINNESOTA  
Parents Forever Project Coordinator, Minnesota Extension Service. M.S. and must also be a current MES academic staff member,  
Closing date: February 13, 1997

MISSISSIPPI STATE UNIVERSITY  
Assistant Horticulturist, Mississippi Agricultural and Forestry Experiment Station. Ph.D. in horticulture.  
Closing date: May 1, 1997

UNIVERSITY OF NEBRASKA  
Extension Educator, Cooperative Extension. M.S. in agriculture.  
Closing date: March 28, 1997

OREGON STATE UNIVERSITY  
Assistant Professor, Department of Horticulture. M.S. in horticulture. Twelve-month, tenure-track.  
Closing date: February 28, 1997

UNIVERSITY OF UTAH  
Postdoctoral, Biology Department. Research and teaching in plant biology.

Sally Forth: By Greg Howard and Craig MacIntosh



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
February 10, 1997

MMW  
2/10/97

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Dr. Elmer G. Heyne, who earned a Ph.D. degree at the University of Minnesota in 1952, was killed in an automobile accident on Wednesday, February 5, 1997 in Manhattan, KS. Dr. Heyne was a wheat breeder and professor at Kansas State University from 1938 until his retirement in 1982. He was presented the Outstanding Achievement Award for Alumni of the University of Minnesota in 1986 for significant scientific research and fundamental discoveries in inheritance of wheat diseases and quality and development of new cultivars of hard red winter wheat and oat. Through his leadership the Annual Wheat Newsletter was developed. He served as its editor for 30 years. It has become a major information transfer mechanism among wheat workers in the world.

## Announcements

There is a faculty meeting today at 1:00 p.m. in 306 Borlaug Hall.

Key Deposit Refunds -- When it comes time to return your department keys be sure to leave enough time to pick up your refund from the bursars. The only person who can receive the refund is YOU!!! Department personnel are no longer allowed to pickup your refund once you have left. Collection of the refund is your responsibility. If you don't do it, you loose it!

There will be a graduate club meeting on Friday, February 14 at 3:30 p.m. We will meet in 306 Borlaug Hall.

The Civil Service Liaison Committee will be distributing information in your mailbox this week about the Civil Service Excellence Award Guidelines. The award ceremony will be held on Thursday, April 3 at 3:00 p.m. Mark your calendars. For any questions, please call Roger Caspers at 625-1994.

All projects that need pesticides and field plot space at St. Paul need to get your requests to Mike McClellan by February 21.

## Greenhouse Users

"Even concrete floors that were not thoroughly cleaned up after the crop could harbor some pests." This is a quote from Clinton Morse, the greenhouse manager in the Department of Ecology & Evolutionary Biology at the University of Connecticut.

I am hoping this quote will help people understand the reason and importance of the greenhouse clean up/ watering day. There wasn't much of an effort put forth on the last clean up day and we really need the cooperation of everyone if we are going to cut back on our insect problems. Please try to remember that the greenhouses are an extension of your labs. Thanks. Pamela Altermatt

## Brown Bag Discussion

Lisa Gulbranson, Organic and sustainable agriculture, Friday, February 14 at 12:00 noon in 306 Borlaug Hall.

## Seminars

February 10 Plant Breeding, Flavio Capettini, Breeding hybrid wheat, 3:30 p.m., 306 Borlaug Hall.

Plant Molecular Genetics, Ronald Hutchinson, Site-specific mutagenesis at histidine 118 and argine 269 of the photosystems II D1 protein of chlamydomonas reinhardtii, 12:00 noon, 306 Borlaug Hall.

## Plant Biological Sciences

Colloquium, Steve Lindow, Molecular approaches to the study of the ecology of bacteria on plant surfaces, 2:30 p.m., 306 Borlaug Hall.

## Soil, Water, and Climate

Angille Heintzman, Long-term crop rotations in Alberta, Canada, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

February 10 **Animal Science**, Laurie Hayes, Visions for undergraduate instruction at the College of Agricultural, Food, and Environmental Sciences, 3:00 p.m., 25b COB.

**Plant Biological Sciences**, Steve Lindow, Molecular approaches to the study of the ecology of bacteria on plant surfaces, 3:00 p.m., 365 Borlaug Hall.

February 12 **Computer Seminar Series**, Academic and Distributed Computing Services, Introduction to and update on University e-mail and internet services, 12:10 p.m., 365 Borlaug Hall.

**Water Resources**, Henry Quade, Agricultural Drainage: Extent and impact; Wayne Anderson, MNRAP, MNRIP and ongoing multi-agency efforts to restore the Minnesota River, 2:30-4:30 p.m., 19 Green Hall.

February 13 **Biotechnology**, Jim Lingen, Genetic modifications for improved biocontrol of fungal pathogens, 3:30 p.m., D230 Mayo.

February 14 **Plant Molecular Genetics**, Paul Skroch, Molecular marker characterization of the common bean genome, 12:00 p.m., 12 Biological Science Center.

**Biosystems and Agricultural Engineering**, William Wilcke, Video 'My Father's Garden' and Discussion about the use of chemicals in agricultural production, 1:30 p.m., 106 BioAgEng.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

AUBURN UNIVERSITY  
Research Associate or Senior Research Associate, Department of Agronomy and Soils. M.S. in crops, soils, or geology.

Closing date: March 25, 1997

CROSSROADS (Peace Corps)  
Project Directors, Group Leaders, Interns and Volunteers are needed in countries such as Botswana, Ghana, Ivory Coast, Kenya, South Africa, Tanzania and Brazil. For more information, contract oca@igc.apc.org.

NORTH CAROLINA STATE UNIVERSITY  
Research Assistant, Department of Crop Science. M.S. in plant science.

Closing date: February 15, 1997

OREGON STATE UNIVERSITY  
Assistant Professor, Department of Horticulture. Ph.D., M.S., M.A., or M.L.A with experience in horticulture or closely related field. Full-time, tenure-track position.

Closing date: March 15, 1997

SAMUEL ROBERTS NOBLE FOUNDATION, INC.  
Soil Fertility Specialist, Agricultural Division. M.S. or Ph.D. in agronomy with emphasis in soil fertility or plant nutrition.

Closing date: April 30, 1997

SOUTH DAKOTA STATE UNIVERSITY  
Postdoctoral Research Associate, Department of Plant Science. Full-time, temporary, non-tenure track appointment. Ph.D. In plant biology or related area.

Closing date: April 22, 1997

MID  
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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
February 17, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

The Annual Agronomy Department Fishing and Camping Trip is scheduled for Friday, June 13th through Sunday, June 15th this year. The new location is Maplewood State Park Group Camp, seven miles east of Pelican Rapids, MN in Ottertail Co. The Park provides access to many smaller lakes but features especially Beers, Bass, and Lida Lakes with the Group camp situated on high ground between Beers and Bass. The park offers a swimming beach, 25 miles of hiking trails, 1.2 miles self-guided nature trail, boat and canoe rental, gift shop, and public phones. Our group camp is rustic and private with a 3-sided shelter for cooking and picnic tables. Beers Lake is a very good musky and largemouth bass lake along with excellent panfishing. Boaters can use any size motors but there is a 10 mph speed limit on Beers Lake (No jet skis!!). Bass Lake is a designated trout lake with only electric trolling motors allowed and fishing there requires a trout stamp. Lake Lida is a larger lake that is famous for walleye with no hp or speed restrictions. Camping charges are a reasonable \$2 per person per night. We'll have the customary Saturday night campfire and Sunday morning do-it-ourselves-brunch where the beautiful stained glass traveling trophy (crafted by Sue Miller) will be awarded to the Luckiest Fisherpersion for 1997. Please make note of the dates June 13-15 (Father's Day weekend) and contact me for more detailed information either by phone 625-6266, e-mail: rista001@maroon.tc.umn.edu or put a note in my mailbox ASAP but for sure by April 4. Hope to see lots of Department campers join in the fun and camaraderie!  
Eric Ristau

Faculty - Please remember to e-mail your web site information to Pat (kessl001@maroon.tc.umn.edu) by WEDNESDAY, FEBRUARY 19. Thank you!!

The Library (304 Hayes Hall) is being repainted and carpeted. The painting will be done this week (February 17 and 18), and the carpet should be laid the following week. We are sorry for any inconvenience that this may cause.

All projects that need pesticides and field plot space at St. Paul need to get your requests to Mike McClellan (4-5395) by Friday, February 21.

## Department Photo Boards

All photos of the faculty and staff are being retaken this week to update the photo boards. On Tuesday, I will be at Crops Research, Crop Services, Seed House and Weeds Lab for photos. Faculty and remaining staff will have photos taken Tuesday to Friday. Please be prepared for your photo when I stop by your office.

Teresa Schoeder

## Growth Chamber Update

To those of you waiting for growth chamber space in Crop Services, you have not been forgotten about. There continues to be problems and delays getting chambers to pass performance specification tests. We have some chambers currently in use and I will let you know when more chambers come on line. If you want to put your name on the waiting list, let me know.

Donn Vellekson

## Greenhouse Users

### Reminders-

- 1) Monday, March 3 is a greenhouse clean up/watering day. I have been letting the fines slide, but they will be issued on Monday, March 3.
- 2) The tarps are covering the soil carts to keep the soil from drying out so fast. Please have some consideration for the other greenhouse users and recover the carts when you are finished using the soil. Don't forget to sweep up!!!

We have purchased an atomist electric sprayer for the greenhouse spraying. This will allow a constant pressure and hopefully better coverage with the finer droplet size.

Pamela Altermatt

## Brown Bag Discussion

Roger Becker, BMP's, PMP's-Pesticide, the Environment, and You, 12:00 noon, 306 Borlaug Hall.

### **Soup Lunch Charity**

This year's Agronomy Grad Club Soup Lunch Charity will be held in 306 Borlaug Hall on Thursday, March 6 from 11:45 a.m. to 1:00 p.m. We need your help! To indicate your willingness to donate soup, please fill out the form that will soon be appearing in your mailbox. Even if you are unable to bring soup, please plan on attending. Suggested donation will be \$3.00. Every dollar we raise enables the Second Harvest St. Paul Food Bank to purchase \$20 worth of food! Your active participation will allow this charity to once again be a success.

### **Grants Awarded**

David A. Somers, Structure of Transgene Integration Loci in Genetically Engineered Oat Plants, \$194,859 - 11/1/96-10/31/99.

Ronald L. Phillips and Howard W. Rines, Unique System for Subchromosome-Specific Plant Genome Analysis, \$155,888 - 9/1/96-10/31/98

### **Seminars**

February 17 **Plant Breeding**, Mark Strefeler, Breeding floricultural crops in a public institution, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Kurt Stromberg, Biological basis of take-all decline in wheat, 2:30 p.m., 365 Borlaug Hall.

February 18 **Plant Biological Sciences Colloquium and Co-sponsored by the Department of Agronomy and Plant Genetics**, Peter Keeling, Pathway, control and compartmentation of starch synthesis in maize, 3:30 p.m., 306 Borlaug Hall.

February 19 **Ph.D. Defense**, Kendell Hellewell, Yield enhancement of semi-dwarf barley, 10:00 a.m., 306 Borlaug Hall.

**Computer Seminar Series**, Paul Brady, Internet mediated education: Why bother?, 12:10 p.m., 365 Borlaug Hall.

**Water Resources**, Greg Payne, Spatial and temporal trends in water quality in the Minnesota River Basin; Tim Larson, Biological aspects of water quality in the Minnesota River Basin, 2:30-4:30 p.m., 19 Green Hall.

February 20 **Biotechnology**, Eric Triplett, Molecular approaches to study microbial diversity in soil, 3:30 p.m., 375 Borlaug Hall.

February 21 **Plant Molecular Genetics**, Paul Skroch, Molecular marker characterization of the common bean genome, 12:00 p.m., 12 Biological Science Center.

**Biosystems and Agricultural Engineering**, Anu Subramanian, Development of cellulose-based separation matrices: Design parameters and optimization, 1:30 p.m., 106 BioAgEng.

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

#### **UNIVERSITY OF ILLINOIS**

Visiting Extension Specialist (Weed Science-Pesticide Applicator Training). M.S. in weed science.

Closing date: May 16, 1997

#### **UNIVERSITY OF KANSAS**

Research Associate, Department of Agronomy, Crop, Soil, and Range Sciences. B.S. or M.S. in agricultural engineering, civil engineering, agronomy, soil science or related field.

Closing date: March 14, 1997

#### **NEW MEXICO STATE UNIVERSITY**

Assistant Professor of Soil Science, Department of Agronomy and Horticulture. Ph.D. in soil science, agronomy or related area is required. Tenure-track, 12-month position, 65% research and 35% teaching.

Closing date: April 15, 1997

MW  
8/19/86

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
February 24, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Viola Hicks, 87, Odin, IL, mother of Dale Hicks, died February 3. Mrs. Hicks was a former country school teacher and gave piano lessons for the past 35 years. She was a member of the Sandoval Methodist Church where she served as pianist and Sunday school teacher. She was a member of the Marion County Farm Bureau and served as President of the FB Ladies Division. Mrs. Hicks is survived by three sons, two daughters, fifteen grandchildren, and thirty-two great grandchildren.

Don Rasmusson's mother, Freda, passed away Monday, February 17. She was 87 years old and in good health until her death. She was here in November to attend the Siehl Prize ceremony. Funeral services were held Friday, February 21 in Ephraim, Utah, and flowers were sent by the department.

## Announcements

There will be a farewell coffee for Kendell Hellewell on Wednesday, February 26 at 3:00 p.m. in 306 Borlaug Hall.

The Civil Service Liaison Committee is still accepting nominations for the Civil Service Excellence Award until Thursday, February 27 by 12:00 noon. Please submit your nominations to Roger Caspers.

Soup Lunch Charity Reminder: If you have not yet returned the Soup Lunch questionnaire, please do so by tomorrow (February 25). If you have lost your form, or if you never received one, you can leave a note in Box 6 or send e-mail to mudge002@gold.tc.umn.edu. The lunch will be held Thursday, March 6 from 11:45 a.m. to 1:00 p.m. Every dollar that we donate allows the Second Harvest St. Paul Food Bank to purchase \$20 of food, so let's all participate!

Chest Freezer for sale - 7.5 cu feet (35"W x 34"H x 24"D), two years old, White Westinghouse. For information, call Georgia at 625-4255.

Plant Breeding Students --- Does anyone want to join Ana Maria in the Plant Breeding Topics course next quarter? Please contact Jean Swanson, 411 Borlaug Hall, if you would like to register for Agro 8280, Current Topics in Plant Breeding, which meets 10:10 a.m. - 12:05 p.m., Thursday's.

The Annual Agronomy Department Fishing and Camping Trip is scheduled for Friday, June 13th through Sunday, June 15th this year. The new location is Maplewood State Park Group Camp, seven miles east of Pelican Rapids, MN in Ottertail Co. The Park provides access to many smaller lakes but features especially Beers, Bass, and Lida Lakes with the Group camp situated on high ground between Beers and Bass. The park offers a swimming beach, 25 miles of hiking trails, 1.2 miles self-guided nature trail, boat and canoe rental, gift shop, and public phones. Our group camp is rustic and private with a 3-sided shelter for cooking and picnic tables. Beers Lake is a very good musky and largemouth bass lake along with excellent panfishing. Boaters can use any size motors but there is a 10 mph speed limit on Beers Lake (No jet skis!!). Bass Lake is a designated trout lake with only electric trolling motors allowed and fishing there requires a trout stamp. Lake Lida is a larger lake that is famous for walleye with no hp or speed restrictions. Camping charges are a reasonable \$2 per person per night. We'll have the customary Saturday night campfire and Sunday morning do-it-ourselves-brunch where the beautiful stained glass traveling trophy (crafted by Sue Miller) will be awarded to the Luckiest Fisherperson for 1997. Please make note of the dates June 13-15 (Father's Day weekend) and contact me for more detailed information either by phone 625-6266, e-mail: rista001@maroon.tc.umn.edu or put a note in my mailbox ASAP but for sure by April 4. Hope to see lots of Department campers join in the fun and camaraderie!  
Eric Ristau

## Brown Bag Discussion

Nick Jordan, MN DNR's Citizen Science Program: An Avenue to Participatory Agroecosystem Management, Friday, February 28 at 12:00 noon in 306 Borlaug Hall.



## Greenhouse Users

I will be gone the afternoon of Friday, February 28<sup>th</sup>. Everyone needs to do their own afternoon watering.

Monday, March 3<sup>rd</sup> is a clean up/watering day. Everyone needs to do some clean up.

Greenhouse spraying will be done on Wednesday evenings through the rest of the quarter.

Thanks, Pamela Altermatt

## Seminars

February 24 Plant Breeding, Paula Olhoft, Nucleotypic effect, 3:30 p.m., 306 Borlaug Hall.

Plant Pathology, Silvia Penuela, Localization of response mRNA in resistance reactions, 2:30 p.m., 365 Borlaug Hall.

Animal Science, Jodi Day, Overview of Minnesota's poultry industry, 3:00 p.m., 25b Classroom Office Building.

February 25 Plant Biological Sciences Colloquium, Teresa Pawlowska, Heavy metal tolerance in arbuscular mycorrhizal fungi, 3:30 p.m., 306 Borlaug Hall.

February 26 Computer Seminar Series, Survey of current contents and BIOSYS databases, Presented by St. Paul Libraries, 12:10 p.m., 365 Borlaug Hall. These are very informal so feel free to bring lunch and lots of questions.

February 27 Biotechnology, Jack Richman, Enzyme mimicry in ten easy steps: Design of a zinc ligand to match carbonic anhydrase, 3:30 p.m., D230 Mayo.

February 28 Biosystems and Agric. Engineering, John Shutske, Technology changes, 1:30 p.m., 106 BioAgEng.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

CASCADIAN FARM, INC. (Washington)  
Horticulturist in organic farming, food processing and marketing. M.S. in horticulture, entomology, agronomy or weed science.

GOLDEN HARVEST SEEDS  
Research Agronomist (Clinton, IL). M.S. in agronomy with crop production related emphasis.

ILLINOIS STATE UNIVERSITY  
Dean of the College of Applied Science and Technology. Ph.D. with a minimum of five years of successful administrative experience in higher education.

UNIVERSITY OF KENTUCKY  
Research Specialist in Soybean Cultivar Testing, Department of Agronomy. M.S. in plant breeding, agronomy, or closely related area.  
Closing date: March 15, 1997

Research Specialist, Forage Variety Testing, Department of Agronomy. M.S. in agronomy or related area.  
Closing date: March 15, 1997

MINNESOTA COUNCIL ON FOUNDATIONS  
Secretary/Receptionist. Part-time (20-24 hours week).  
Closing date: February 26, 1997

OREGON STATE UNIVERSITY  
Faculty Research Assistant, Agricultural Chemistry Extension. B.S. or M.S. in toxicology, environmental chemistry, agricultural sciences or public health.  
Closing date: March 14, 1997

THE J.C. ROBINSON SEED CO.  
Hybrid Corn Production Manager (Waterloo, NE). B.S. in agronomy with emphasis in crop science.

Production Research Agronomist. M.S. or B.S. in agronomy with a crop production related emphasis.

1110  
2 Ag 26a

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

March 3, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Thank you

Thank you for the lovely plant. It was so kind of you to remember us, and we appreciate your care and concern.

Sincerely, Heidi and Hal

The family of Elmer Heyne acknowledges with grateful appreciation your kind expression of sympathy.

## Announcements

Mrs. Winchell Ausemus passed away this last weekend. No announcements of arrangements have have made. Mrs. Ausemus was the widow of Dr. Elmer Ausemus.

The Soup Lunch will be held on Thursday, March 6 from 11:45 a.m. to 1:00 p.m. Every dollar that we donate allows the Second Harvest St. Paul Food Bank to purchase \$20 of food, so let's all participate. Suggested donation of \$3.00 if you do not bring soup, \$1.00 if you bring soup.

The Kermit A. Olson Memorial Lecture will be held on Wednesday, March 12 at 4:00 p.m. in 33 McNeal Hall. A reception at 5:00 p.m. follows the lecture and is open to the public. This year the speaker will be Dr. Martin J. Bukovac from Michigan State University. His lecture is titled "The Plant Surface: a Dynamic Interface Between the Plant and Its Environment."

The first year of semesters for 1999-2000 was approved by the senate. Fall semester will begin September 7, the day after Labor Day, with the last day of instruction December 15 and exams December 17-23. Spring semester will begin January 18, with the last day of instruction May 5 and exams May 8-13. Fall semester will be 70 class days and spring semester 74. Intersession will be May 22-June 9, summer sessions June 12-July 14 and July 17-August 18. This calendar is university-wide except for Morris, Crookston, and the Law School.

Nomination are being taken for the Patrick J. Manning Research Award. This award, which consists of an honorarium and plaque, is designed to recognize individuals who have shown special

efforts in the care and use of research animals and contributions to biomedical research.

Nominations need be to be received by Monday, April 7. Information is available at the front desk of 411 Borlaug Hall.

## Greenhouse Users

TODAY Monday, March 3 is a clean up/watering day. Everybody needs to spend sometime in the greenhouses. Don't forget weed control on bench tops and in pots is part of the clean up. This includes NW greenhouses.

SPRAYING will be done on Wednesday evening.

REMEMBER: Your cultural practices are as critical to pest management as the pesticides are.

Thanks for your help!!

## Brown Bag Discussion

Pirji Peltonen-Sainio, Some general information about Finnish crop production today and On-going research on enhancing yield formation of cereals at high latitudes with foliar application chemicals such as plant growth regulations, alcohols, and glycine betaine, Friday, March 7 at 12:00 noon in 306 Borlaug Hall.

## Seminars

March 3 Plant Breeding, Jonathan Shaver, Drowning in diversity: Utilization of plant genetic resources, 3:30 p.m., 306 Borlaug Hall.

Plant Pathology, Andi Westergard, Hypovirulence of Cryphonectria parasitica, 2:30 p.m., 365 Borlaug Hall.

March 4 Plant Biological Sciences Colloquium, Ilya Raskin, Phytoremediation -- green and clean, 3:30 p.m., 306 Borlaug Hall.

March 5 Computer Seminar, ADCS, Introduction to and update on University e-mail and internet services, 12:10 p.m., 365 Borlaug Hall.

## Seminars

- March 5 Water Resources Science, Scott Sparlin, Local and citizen-based restoration activities for the Minnesota River, 2:30 p.m., 19 Green Hall.
- March 6 Biotechnology, Elaine Ingham, Impacts of GEMS in soil food web nutrient cycling, 3:30 p.m., 375 Borlaug Hall.
- March 7 Biosystems and Agricultural Engineering, Barb Liukkonen, Water Resource Center update, 1:30 p.m., 106 BioAgEng.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### McGILL UNIVERSITY

Two postdoctoral positions are available immediately to work on the identification and characterization of transposable elements associated with wild-type plant genes.

### UNIVERSITY OF MINNESOTA

Assistant Scientist, Department of Agronomy & Plant Genetics. B.S. in agronomy or related field. Need to put application into Human Resources. For more information, please call Bill Lueschen at 625-6719 or Erv Oelke at 625-1211.

### NORTH CAROLINA STATE UNIVERSITY

Assistant Professor (department to be determined based on professional skills). Ph.D. in pest management related discipline.

Closing date: April 1, 1997

### OREGON STATE UNIVERSITY

Faculty Research Assistant, Agricultural Chemistry Extension. B.S. or M.S. in toxicology, environmental chemistry or closely related field.

Closing date: March 14, 1997

### STONEVILLE PEDIGREED SEED COMPANY

Research Technician I and II. B.S./M.S. in agriculture or five years experience in plant breeding research.

### TEXAS A&M UNIVERSITY

Graduate Research Assistantship, Soil & Crop Sciences Department. M.S. or Ph.D. degrees offered.

MW  
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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 11, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Thank you

Thanks for the lovely flower arrangement. We appreciate your concern and expression of support. Carol and Don Rasmusson

We would like to thank everyone who helped make the soup lunch tremendously successful. Thank you to the 19 people who donated the delicious soups. For the fifth consecutive year, Cafe Latte donated 20 loaves of fresh bread for the soup lunch. Cafe Latte is located at the intersection of Grand and Victoria in St. Paul and the donation of bread from the Latte Bakery definitely contributes to the quality of the soup lunch. Special thanks to the staff and the bakers of Cafe Latte. Thanks to the Plant Pathology grad students who contributed to the soup lunch this year. Thanks also to Lynne Medgaarden for her help in locating necessary supplies and for her willingness to assist in setting up the soup lunch. Finally, thanks to everyone who came and generously gave to support the work of the Second Harvest Food Bank. We were able to raise \$392 which will be given to the Second Harvest St. Paul Food Bank to help them distribute donated food to charitable feeding programs throughout Minnesota, western Wisconsin and North Dakota. We hope you enjoyed the soup lunch.

The Soup Lunch Committee

## Announcements

Congratulations to Kim Torbert who has been reclassified to Scientist in David Somers laboratory.

Those of you who have signed up for a credit card but have not had the orientation, and those of you who are thinking about it and have not taken that first step, now is your chance to sign up and take orientation at the same time. The dates are Tuesday, March 11 from 9:00 - 10:00 a.m. and Thursday, March 13 from 1:30-2:30 p.m. Both of these classes are in 306 Borlaug Hall.

Judy Slyter

The Northrup King Committee will be placing monthly notices in the Gleanings about upcoming development opportunities that you can participate in. The information will be placed in a tray on the front desk of 411 Borlaug Hall. You can look at the brochure that is placed in the tray, but DO NOT REMOVE IT from the office.

## Northrup King Development Opportunities

Conflict Resolution and Confrontation Skills - How to keep cool, stand your ground and reach a positive solution. It will be held on Wednesday, April 2 and Tuesday, April 22 in Minneapolis.

Powerful Presentation Skills - A one-day course to help you make more effective, persuasive presentations. It will be held on Tuesday, April 8 in Minneapolis and on Thursday, April 10 in Bloomington.

For more information, please contact JoAnn Lamb at 5-0260.

## Brown Bag Discussion

Bill Lueschen, Perennial native legumes: Potential new crops?, Friday, March 14 at 12:00 noon in 306 Borlaug Hall.

## Seminars

March 12 Computer Seminar, St. Paul Central Library, Survey of current contents and BIOSYS databases, 12:10 p.m., 365 Borlaug Hall.

March 13 Biotechnology, Vijay Singh, Biotechnology application in pharmaceutical production, 3:30 p.m., D230 Mayo.

March 14 Biosystems and Agricultural Engineering, William Fenster, International Agricultural Programs' activities and opportunities, 1:30 p.m., 106 BioAgEng.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### MERRICK'S, INC.

Assistant to coordinate research protocols, trials, and assessing data on baby animal nutrition.

M.S. or D.V.M.

Closing date: April 7, 1997

### UNIVERSITY OF WISCONSIN

Agricultural Agent, Cooperative Extension. M.S. in field of agriculture.

Closing date: March 31, 1997

### UNIVERSITY OF MINNESOTA

Assistant Professor, Department of Agronomy and Plant Genetics. Tenure-track, 12-month appointment. The person filling this position will be expected to develop a research program in crop molecular genetics and contribute to the undergraduate/graduate education, and outreach mission of the department and university.

Closing date: May 1, 1997

### UNIVERSITY OF NEBRASKA-LINCOLN

Graduate Teaching/Research Assistantship. B.S. or M.S. in agronomy, range science, animal science or related area.

Closing date; June 1, 1997

### NORTH CAROLINA STATE UNIVERSITY

Assistant Professor, Department of Crop Science. Ph.D. And experience in pest management related discipline.

Closing date: April 1, 1997

### OREGON STATE UNIVERSITY

Assistant Professor, Extension Service. M.S. in horticulture or closely related field.

Closing date: March 28, 1997

World Wide Web Developer, Department of Crop and Soil Science. M.S. and a minimum of one year experience.

Closing date: March 15, 1997

### PIIONEER HI-BRED INTERNATIONAL, INC.

Technical Information Analyst (Johnston, Iowa).

Three-five years experience with agricultural field trials, experimental procedures, and statistical analysis.

### SAM HOUSTON STATE UNIVERSITY

Assistant Professor, Department of Agricultural Sciences. Tenure-track, nine-month appointment. Teaching appointment with research and service.

Closing date: April 15, 1997

### USDA-ARS

Vacancy announcements of employment with ARS are now available by calling Dial-A-Vacancy at 301-344-2288 or 912-757-3100. You may also locate ARS vacancy announcements via internet at the ARS Home Page: <http://www.ars.usda.gov>.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 17, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Walt Wedin's sister, Florence Swanson, passed away last week. The funeral was on Friday, March 14 in Taylors Falls, MN. She was 81 years old.

## Thank you

The Elmer G. Heyne family wishes to thank you for your kind expression of sympathy. The yellow and orange glads and carnations were a most beautiful spread of flowers and were just gorgeous. They were also used in our Sunday morning services at the church. We appreciate your thoughtfulness. Marjorie Heyne and Family

## Announcements

Good News - The carpet is scheduled to be installed in the Library on Thursday of this week. Thanks for your patience during our library "clean-up" process!

The University of Minnesota will be closed on Friday, March 28 for a floating holiday.

The Guy Stanton Ford Memorial Lecture will be presented by world famous magician and mathematician Persi Diaconis, on Wednesday, May 7 at 10:15 a.m. in the Mayo Auditorium. The lecture entitled "The Search for Randomness," is free and open to the public, with seating available on a first-come first-served basis.

## Grants Awarded

Nevin D. Young and James H. Orf, Application of Biotechnology to Control the Soybean Cyst Nematode, \$59,380 - 10/1/96-9/30/97.

James H. Orf, Marker Selection of Yield: Phase 3 Molecular Marker Strategies, \$464,674, 10/1/96-9/30/98.

## Grant PI's

The department has received a paper copy of "Managing Sponsored Projects at the University of Minnesota" from ORTTA. This copy will be on file in 411 Borlaug Hall. You may also access this document through the web site at <http://www.ortta.umn.edu>.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### AGREVO USA COMPANY

Field Scientist, Biotechnology Registration Department. Ph.D. or M.S. in crop science, agriculture, biochemistry, biology or chemistry.

Closing date: April 1, 1997

### THE CROP AND GRASSLAND SERVICE (United Nations)

Cropping Systems Agronomist-Information Management Expert. Provide information and advice to members of governments on means to enhance sustainable crop production systems. Seven years of professional experience in crop management technology with experience in agricultural development in the tropics.

### GUSTAVUS ADOLPHUS COLLEGE

Plant Biologist. Ph.D. or near completion of degree in appropriate discipline. One semester sabbatical replacement starting late August 1997.

Closing date: April 1, 1997

Behavioral Ecologist, one year appointment starting late August 1997. Ph.D. in appropriate discipline.

Closing date: April 1, 1997

### NORTH CAROLINA STATE UNIVERSITY

Assistant Professor, Cooperative Extension Service. Ph.D. and experience in pest management related discipline. Tenure-track, 100% extension.

Closing date: April 1, 1997

### WITTENBERG UNIVERSITY

Assistant Professor in neurobiology/  
pharmacology. Ph.D. required with courses in neurobiology, pharmacology, and general biology.

Closing date: April 1, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
March 24, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Please welcome Dr. Luiz Federizzi, oat breeder/geneticist, from the Universidade Federal Do Rio Grande Do Sul in Brazil. Luiz was an advisor for Cristine Handel and is a mentor of Sandra Milach. His Ph.D. advisor was Cal Qualset. He has been very active in Brazilian science since finishing his Ph.D. and has released several quite successful oat cultivars. He and his family, including four children will be with us through February 1998.

Deon D. Stuthman

## Mark Your Calendar!

April 16 9:45 a.m. 306 Borlaug Hall  
Department Coffee - Free Starbucks coffee and bagels with the trimmings. Sponsored by the Northrup King Development Committee and the Social Committee.

**Direct Deposit Problem:** Employees scheduled to receive direct deposit reimbursements on March 18 may have received physical checks instead. Error was outside CUPS and outside Payroll (happened over the weekend). Profuse apologies for inconvenience from OIT and FSS.

Plant Biological Sciences Colloquium will be held on Tuesday, April 1 at 3:30 p.m. in 306 Borlaug Hall. Sue Liebman will present "Yeast as Small 'Mad Cows'-Factors Influencing Prion Induction and Maintenance."

The Civil Service Excellence Award ceremony will be held on Thursday, April 3 at 3:00 p.m. in 306 Borlaug Hall.

The annual lab fest will be held on Wednesday, April 16 at the Radisson Metrodome on the Minneapolis Campus, and on Thursday, April 17 in the North Star Ballroom, St. Paul Student Center. Hours are from 10:00 a.m. to 3:00 p.m., with lunch available from 11:30 a.m. to 1:00 p.m. There are 80 scientific vendors planning to be there. Several door prizes will be given away. Everyone is invited to come.

The Annual Agronomy Department Fishing and Camping Trip is scheduled for Friday, June 13th through Sunday, June 15th this year. The new location is Maplewood State Park Group Camp, seven miles east of Pelican Rapids, MN. Contact Eric Ristau by Friday, April 4 for more detailed information or to sign up. Phone: 625-6266; e-mail: rista001@maroon.tc.umn.edu ; or put a note in his mailbox.

The annual Take Our Daughters to Work Day will be held on Thursday, April 24. The program is targeted for 8- to 15-year-old girls; however all girls are welcome to attend as there will be activities for younger children.

## Greenhouse Users

Our student sprayer quit. We are going back to the way it was when everyone was responsible for their own greenhouse pest control. Most of you are having the same insect problems and we can try to coordinate something between the projects. Please call if you need any help 5-3153.

MONDAY, APRIL 7th is a clean up/watering weekend. Fines were issued last month.

GREENHOUSE HONOR ROLL: Dr. Lamb's crew They have some incredible cultural practices:

1. Removing plant material from the greenhouse as soon as possible.
2. Keeping the greenhouses as clean as possible.
3. Sweeping the bench tops off (they go so far as to use a shop vac).
4. Spacing out plant material whenever possible.

We could all learn from them.

Pam Altermatt

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF CALIFORNIA

Cooperative Extension Farm Advisor, Division of Agriculture and National Resources. M.S. in an agricultural science.

Closing date: June 6, 1997

### KANSAS STATE UNIVERSITY

Research Assistant, Department of Agronomy, Crop, Soil, and Range Sciences. M.S. in agronomy or soil science.

Closing date: May 12, 1997

### LIMAGRAIN GENETICS RESEARCH

(Lebanon, IN)

Soybean Research Associate. Soybean research involving all aspects of traditional breeding including packaging, planting, and crossing. B.S. in agriculture.

Closing date: March 31, 1997

### McGILL UNIVERSITY

Postdoctoral Fellowship in Sustainable Agricultural and Environmental Sciences. Ph.D.

Closing date: June 1, 1997

### MICHIGAN STATE UNIVERSITY

Mass Spectrometer/Instrumentalist, Department of Crop and Soil Sciences. M.S. in soil, biological, or chemical areas.

Closing date: April 4, 1997

### UNIVERSITY OF MINNESOTA

Marketing Director, Minnesota Extension Service. B.S. in marketing, journalism, english, or a related field is required.

Closing date: May 2, 1997

### UNIVERSITY OF NEBRASKA-LINCOLN

Research Technologist I, Department of Agronomy. B.S. in agronomy, plant science or ecology.

Closing date: March 28, 1997

### WESTERN KENTUCKY UNIVERSITY

Assistant Professor, Agronomy/Weed Science, Department of Agriculture. Tenure-track, nine-month appointment. Teaching, research and public service in the areas of weed science, pest management, data analysis and field crops.

Closing date: April 15, 1997

Assistant Professor, Soil Science, Department of Agriculture. Tenure-track, nine-month appointment. Ph.D. in agronomy and demonstrated superiority in teaching skills.

Closing date: April 15, 1997

### USDA-ARS

Intern Opportunity - Eight week program working one-on-one with a scientist. Send resume to 1518 N. Cleveland Avenue, St. Paul, MN 55108 by April 11, 1997.



M.A.  
g. J. J. J.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

March 31, 1997

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The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.

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## Calendar

The Civil Service Excellence Award and Longevity Recognition Awards ceremony will be held on Thursday, April 3, 1997 at 3:00 p.m. in 306 Borlaug Hall. This reception is open to all members of the Department of Agronomy and Plant Genetics. Cake and punch will be served.

Horticulture Day at Waseca, MN on Wednesday, April 2, 1997.

## Notice

The two Caravans and the Buick Century will be parked in the Small Grains Greenhouse parking lot starting April 1st until Dec. 1st. Also there will be a blue Chevy pickup, # 3660, as Dept. checkout pickup. Mike McClellan

Note to authors of papers for this year's ASA, CSSA, SSSA meetings--The abstract can be submitted via ASA's Web home page, <<http://www.agronomy.org>>.

## Greenhouse Users:

DON'T FORGET Monday April 7th is a clean up/watering day. Please remove all plastic that is not hanging on your walls. The sun and heat deteriorate the plastic. Camelback crickets love to live in it. They also love to chew on new seedlings. This might not be a problem for some of you now but if you don't clean up it could be a problem later.

The following is from a February 1996 Gleanings:

I recently found a paper entitled "Greenhouse Insect Control" by Mark Ascerno. In the section, Preventive Methods of Pest Control in the Greenhouse he lists the following:

A. Insecticides

B. Sanitation - neat and orderly greenhouse

1. Weed control in and around greenhouse
2. Lingering plants
3. Sterilization of planting media
4. Auxiliary insect control - ants (could easily say camelback crickets)

C. Environmental manipulation reduces chance of pest success

1. Optimum range for crops \
2. Optimum range for pest / Compromise

The greenhouses should not be used for storage-please clean up all pots, garbage etc.

Soil users please let me know when you are planning on using a large amount of soil so we can plan accordingly. We have some large plantings that are going on right now.

Corn growers: Would it be possible to get your plants spread out since you seem to have the room? It would be better for insect control.

Thanks for your help!! Pam Altermatt

## Brown Bag Discussion

Dr. Steve Simmons, "On the Loose at Carleton and St. Olaf: What I Learned," Friday, April 4, 12:00 noon, 306 Borlaug Hall. Bring your lunch and enjoy!

## Seminars

April 1 Plant Biological Sciences Colloquium, Sue Liebman, Professor, Univ. of Illinois, Yeast as Small "Mad Cows" - Factors Influencing Prion Induction and Maintenance, 3:30 p.m., 306 Borlaug Hall.

**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

**AUBURN UNIVERSITY**  
Research Associate or Senior Research  
Associate, Agronomy and Soils Department.  
M.S. degree.  
Closing date: May 31, 1997

**PURDUE UNIVERSITY**  
Department Head for 4-H Youth, School of  
Agriculture. Ph.D.  
Application review date: May 15, 1997

**SAMUEL ROBERTS NOBLE FOUNDATION**  
(Ardmore, OK)  
Forage Specialist, M.S. or Ph.D. in Agronomy.  
Closing date: April 30, 1997

**COLORADO STATE UNIVERSITY**  
Manager, Colorado Seed Growers Association.  
B.S. degree required (M.S. preferred) in Crop  
Science.  
Closing date: May 15, 1997

**UNIVERSITY OF ARKANSAS**  
Head and Professor, Department of Agronomy.  
Ph.D.  
Closing date: June 1, 1997

**UNIVERSITY OF GEORGIA**  
Program Director, SANREM CRSP Program.  
Ph.D. in agricultural, ecological or social  
sciences.  
Closing date: April 18, 1997

**PIONEER HI-BRED INTERNATIONAL, INC.**  
(Johnston, Iowa)  
Technical Information Analyst  
Start date: ASAP

**ASGROW**  
(Janesville, WI)  
1) Need another undergrad intern  
2) Research Assistant - B.S. or M.S.  
3) Corn breeder, Redwood Falls, Ph.D.  
Contact: Steve Wagner

**ST. OLAF COLLEGE**  
One-semester Assistant Professor of Biology  
beginning Feb. 1, 1998. Ph.D.  
Screening date: Begins April 14, 1997

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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
April 7, 1997

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### Spring quarter computer seminars/classes.

Every week starting April 16 we will have a series of seminars on computing. They will be held Wednesdays, 12:10 - 1:00 pm in 365 Borlaug Hall. These are very informal so feel free to bring lunch and lots of questions. After each seminar from 1:00 - 1:15 pm an informal question and answer session will be held to discuss any computer questions or problems that you may have. In addition, every Monday from 10:00 - 12:00 noon in 304 Stakman Hall there will be a person available to help anyone who would like to learn more about Windows 95.

Dean Flanders

Sabbatical Housing needed for Robert von Bernuth, Michigan State University, April 21 - August 15, 1997. Contact Don Wyse.

### **Notice**

All projects that have trailers need to have them safety checked by Fleet Services at the St. Paul Farm Shop. This should be done now before plot work gets underway. Items to have checked would be brakes, brake lights, running lights, tires and the hitch.

Mike McClellan

Greenhouse users: Today is a cleanup/watering day. ALL greenhouses need some cleanup.

From the University of Illinois Plant Care Facility Operations Policy under the Responsibilities of Greenhouse Users: Maintain project areas in an orderly manner. Particular attention must be paid to neatness and sanitation.

Thanks for your cooperation! Pam Altermatt

### **Brown Bag Discussion**

Cristine Handel, What do you know about Brazil?, Friday, April 11, 12:00 noon, 306 Borlaug Hall. Bring your lunch.

### **Seminars**

April 7 Agronomy Seminar, David Mulla, Dept. of Soil, Water, and Climate, Water Quality Issues in the Minnesota River Basin, 3:30 pm, 306 Borlaug Hall.

Forest Resources, Karen Oberhauser, Biology and Conservation of the Monarch Butterfly, 2:30 pm, 203 Green Hall.

April 8 Candidate for Soil Microbiologist, Dr. Peter Stahl, University of Wyoming, Laramie, WY, Fungal Biomass in Soil: Quantification, Importance and Management, 9:00 am, 408 Hayes.

Plant Biological Sciences Colloquium, Rob Schmidt, University of San Diego, Flower Development, 3:30 pm, 306 Borlaug Hall.

April 10 MISA, ISEES, and Landscape Architecture, William Lockeretz, Tufts University, America in the Thirties in Pictures, Songs and Words, 3:30 pm to 5:00 pm, 306 Borlaug Hall (refreshments at 3:15 pm).

### **Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

MICHIGAN STATE UNIVERSITY  
Research Assistant I position, Department of Crop and Soil Sciences. Bachelor's degree in agronomy or related field.

Closing date: April 16, 1997

UNIVERSITY OF NEBRASKA-LINCOLN  
Computer Support Specialist, Department of  
Agronomy. Bachelor's in computer science or  
related field.

Application review begins: April 14, 1997

NORTH CAROLINA STATE UNIVERSITY  
Crop Science Lecturer, Department of Crop  
Science. M.S. in agronomy, crop science, or  
related biological science.

Closing date: May 1, 1997

COLORADO STATE UNIVERSITY  
San Luis Valley Research Center, Research  
Center Manager/Research Associate. B.S.  
degree.

Closing date: April 30, 1997

THE AGRICULTURAL RESEARCH  
SERVICE, USDA  
(University Park, Pennsylvania)  
Agronomist/Animal Scientist/Agricultural  
Engineer. Degree in animal science, agronomy  
or agricultural engineering.

Closing date: May 5, 1997

MINNESOTA EXTENSION SERVICE  
Temporary Project Coordinator, University of  
Minnesota.

Closing date: April 15, 1997

ASGROW SEED COMPANY  
(Janesville, WI)  
Research Assistant, B.S. in Plant Science.

MINNESOTA DEPARTMENT OF HEALTH  
Summer Researcher, Bachelor's degree.

Closing date: April 21, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
April 14, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Memorial service for Mrs. Winchell Ausemus (widow of Dr. Elmer Ausemus) will be held at 1:30 p.m. on Wednesday, April 16 at St. Anthony Park Methodist Church.

Congratulations to Kathleen Storey who was the recipient of the Civil Service Excellence Award. Congratulations also to longevity award recipients Judy Slyter and Chris Donovan for twenty-five years and Mark Matteson for ten years of service.

Department Coffee - Wednesday, April 16, 9:45 a.m., 306 Borlaug Hall. Fresh Bagels, Starbuck's Coffee and Orange Juice. Please Bring Your Own Coffee Mug. Sponsored by the Northrup King Development Committee and the Social Committee.

Shape-Up Challenge to begin Monday, April 21. Information sheets will be in your mailbox today! "New activity" of yard and garden work to count one full point this year. More opportunities to win a prize. Attend the first monthly coffee on Wednesday, April 16 and register for the Shape-Up Challenge.

The annual lab fest will be held on Wednesday, April 16 at the Radisson Metrodome on the Minneapolis Campus, and on Thursday, April 17 in the North Star Ballroom, St. Paul Student Center. Hours are from 10:00 a.m. to 3:00 p.m., with lunch available from 11:30 a.m. to 1:00 p.m.

The 25th Annual Parent/Student Recognition Program will be held on Friday, April 18 from 3:00-6:30 p.m. in 306 Borlaug Hall. The program recognizes the accomplishments of those undergraduates in the Animal and Plant Systems, Agricultural Industries and Marketing, and Science in Agriculture majors who have selected a crops and soils emphasis. Scholarship awards will be given to ten students. Please join us for all, or as much of the program as your schedule will allow. Come and show your interest in the undergraduate program and meet those parents who attend.

Steve Simmons will repeat his brown bag discussion for people who were unable to attend last week on Wednesday, April 23 at 12:00 noon in 306 Borlaug Hall. The discussion is "On the Loose at Carleton and St. Olaf: What I learned."

Please let me know if there is anyone else who still needs to attend a Responsible Research Management Workshop facilitated by ORTTA. If there are enough people who are interested in attending, the College will schedule another session. Jeanne

The 24th Annual H.K. Hayes Memorial Lecture and Hayes Graduate Student Award will be held on Monday, May 12. Jonathan Shaver has been chosen as the recipient of the H.K. Hayes Graduate Student Award.

### Schedule of events:

- 2:30 p.m. - H.K. Hayes Graduate Student Award, 306 Borlaug Hall;
- 3:15 p.m. - Hayes Memorial Lecture, 335 Borlaug Hall;
- 4:15-5:00 p.m. - Reception, 306 Borlaug Hall.

Wanted: Accommodations for a visiting grad student from Roberto Tuberosa's lab. Would anyone have an apartment to share for about three months? Silvio will be visiting Ron Phillips' lab from mid May through about mid August. He doesn't have a lot of money, so is looking for a shared arrangement. If you have anything, or know of some cheap lodgings (no, not under a viaduct), please contact Suzanne Livingston (5-1208)...Thanks.

## Grants Received

Ervin Oelke, Hans Jung, and Craig Sheaffer, Minnesota Agri-Power, \$884,100 - 4/1/96-9/30/97.

Helene Murray, Decision Cases for Sustainable Agriculture: A Video Training Project for Professional Development, \$52,380 - 10/1/96-9/30/97.

## MISA

Minnesota Institute for Sustainable Agriculture is having a Spring-Internship Open House on Tuesday, April 15 at 12:00 noon in 306 Borlaug Hall. Come hear various internship hosts from around Minnesota discuss student internship opportunities. There will be free pizza and pop and lots of interesting conversation.

On Wednesday, April 16 at 12:00 noon in 408 Hayes Hall, Renay Leone will be speaking on Minnesota Land Trust. The discussion will be on the role in preserving open space, and the tools used to accomplish protection goals, such as conservation easements, purchase or transfer of development rights, and other organization who work on similar and related issues.

## Greenhouse Users

MORE FROM THE UNIVERSITY OF ILLINOIS PLANT CARE FACILITY OPERATIONS POLICY:

All users of the facility are expected to observe good housekeeping rules by returning equipment and unused supplies to proper storage areas and by cooperating in keeping the facilities clean and orderly. Sound sanitation practices are necessary in order to reduce, if not eliminate, disease and insect problems.

Use clean sterile containers and tools. Avoid putting plant material, containers, or tools on the floor or other "contaminated" surface. The floor is not a desirable work area. All unused pots and containers should be returned to assigned storage areas.

Do not use greenhouse space for storage of pots or other supplies.

Plant material and used soil are to be collected and disposed of separately from other trash (paper, plastics, wood, metal, etc.).

It is the responsibility of the Greenhouse User to coordinate disposal of the plant material in a timely manner after project completion.

FROM THE UNIVERSITY OF MINNESOTA AGRONOMY GREENHOUSES:

The 370A range and 415A7 need cleaning. Please clean up behind yourself, particularly when you are potting or disposing of material. Thanks.

Pam Altermatt

## Seminars

April 14 Plant Molecular Genetics, Ron Phillips, The USDA national research initiative competitive grants program, 12:00 noon, 239 Gortner Lab.

Agronomy, Dana Blumenthal, An introduction to hybrid poplar, 3:30 p.m., 306 Borlaug Hall.

April 15 Plant Biological Sciences Colloquium, Chungui Li, Tubulin gene products in maize, 3:30 p.m., 33 McNeal Hall.

April 16 Computer Series, Dean Flanders, Networking windows computers: Moving data on campus, between work and home, or across the world, 12:10 - 1:00 p.m., 365 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

COLORADO STATE UNIVERSITY  
Research Center Manager/Research Associate, Department of Horticulture and Landscape Architecture. B.S., with M.S. preferred, in horticulture, agronomy, or other closely related plant science discipline.

UNIVERSITY OF MINNESOTA  
Biological Science Laboratory Technician, GS 5-7, Department of Plant Pathology. B.S./B.A. or M.S., plus experience with molecular biological techniques.

Available: immediately

OHIO STATE UNIVERSITY  
On-Farm Research Coordinator, Agriculture and Natural Resources. M.S. required, Ph.D. preferred in discipline of agriculture production.  
Closing date: April 25, 1997

SOUTH DAKOTA STATE UNIVERSITY  
Extension Agent, Cooperative Extension Service. B.A. in agriculture.  
Closing date: April 29, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

April 21, 1997

MIW  
9 Ag 8601

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Reminder to call Campus Mail at 5-6560 if you have UPS packages or other large campus mailings to be picked up. The St. Paul Campus is no longer handling the campus mail. It is done by the Minneapolis Campus.

The USDA-Alfalfa Project is missing their Lease Area Meter. Brand name: Lambda, USDA sticker ID# AG0002193489, Model # LI3100.

They are also missing their Balance - Brand name: Sartorium, Model #L420S-RS, Bar code # AG0002293107. If you have any of these items or know where they are, please call Keith Henjum at 5-4291 or Red at 5-6784. Thank you.

Sabbatical Housing needed for April 21 to August 15, 1997 for Dr. Robert von Bernuth, Agricultural Engineering department head at Michigan State University. He will be serving as Senior Fellow in the Endowed Chair in Agricultural Systems. Contact Don Wyse at 612-625-7064.

The 1997 All Campus Elections will be Wednesday, April 23 and Thursday, April 24. All registered students are encouraged to vote for Minnesota Student Association (MSA) President and Vice President, St. Paul Board of Colleges representatives, College Board representatives, and Minnesota International Student Association officers. For more information, contact Kristen Burke at 331-8175.

Fraternities and Sororities recruitment at the University is taking place throughout Spring Quarter. Sororities will be having open houses on Wednesday, April 23 from 6:00-9:00 p.m.

Take Our Daughters to Work Day will be held on Thursday, April 24. The University welcomes girls who visit our campus to talk to adults, learn about jobs, and get hands-on experience.

## Shape-Up Challenge '97

The Shape-Up Challenge starts today and goes until June 1. Tomorrow is double points day. You get double points for walking from 11:00 a.m. - 1:00 p.m. or 3:00-6:30 p.m. (not for the whole day). Remember to keep track of the minutes you exercise each week and record your points on your team's poster the following Monday.

A video will be shown "Wellness in the Workplace," on Thursday, April 24 at 12:10 p.m. in 213 Borlaug Hall. A healthy treat will be served. Each week a different video will be shown on Thursday's during the Shape-Up Challenge. Everyone is welcome to come.

## Seminars

April 21 Soil, Water, and Climate, Cynthia Cambardella, Soil quality and soil organic matter, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

Agronomy, Jose A. Dominquez-Valenzuela, The need for improving cover crop species, 3:30 p.m., 306 Borlaug Hall.

April 22 Plant Biological Sciences Colloquium, Animesh Ray, From embryo to flower and back again: The role of short integument, 3:30 p.m., 33 McNeal Hall.

April 23 Computer Series, Dean Flanders, An introduction to web database design and implementation, 12:10 p.m., 365 Borlaug Hall.

April 25 Animal Science, David Kritchevsky, Recent studies on cancer (conjugated linoleic acid) and atherosclerosis (triglyceride structure), 1:00 p.m., 125 ABLMS.

Biosystems and Agricultural Engineering, Don Quass, Updates on electro-technologies, 1:30 p.m., 106 BioAgEng.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF ILLINOIS

Assistant Professor of Fungal Plant Pathology/Fungus-Plant Interactions. Ph.D. in plant pathology, microbiology, mycology, biology, or other related areas in life sciences.

Closing date: June 1, 1997

### KANSAS STATE UNIVERSITY

Research Assistant, Department of Agronomy, Crop, Soil and Range Sciences. Temporary in Soybean Breeding. M.S. in plant breeding, genetics, or closely related field.

Closing date: May 16, 1997

Research Assistant in Range Management, Department of Agronomy, Crop, Soil and Range Sciences. B.S. or M.S. in agronomy.

Closing date: June 9, 1997

### MANAGEMENT RECRUITERS

Attention Ag Students. Excellent career opportunities available throughout the midwest. Contact Ryan Good, at 605-334-9291 for more information.

### UNIVERSITY OF MINNESOTA

Career Services Program Director, College of Human Ecology. M.S. in student personnel or counseling. Twelve-month, 100% time, annual renewable, academic administrative appointment.

Closing date: May 5, 1997

### NORTH CAROLINA STATE UNIVERSITY

Extension Associate, Department of Crop Science. M.S. or Ph.D. in crop science, soil science, animal science, biological/agricultural engineering.

Closing date: May 15, 1997

### SAMUEL ROBERTS NOBLE FOUNDATION.

Senior Research Assistant, Forage Grass Breeding. M.S. in agronomy, range science or closely related field.

Closing date: May 15, 1997

### USDA

National Program Leader, Quantitative Population Ecology/Pest Management. B.S. in biological sciences, agriculture, natural resource management or related discipline.

Closing date: May 27, 1997



# Agronomy Gleanings

MW  
E. Agler

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
April 28, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcement

Dear Grad Club,

Thank you for the beautiful flowers for the office!! We really appreciate it.

Office Staff

Agronomy Faculty and Staff: Unable to sandbag but still want to help?? - If you are searching for a simple way to help those affected by the floods, please bring your donations of canned foods, diapers, toiletries, toothpaste, toothbrushes, bottled water, games, bleach, cleaning supplies, etc. to 411 Borlaug Hall on Monday, April 27 and Tuesday morning, April 28. The department will transport the donations to the College collection point.

ALL GRAD STUDENTS -- Please meet on Thursday, May 1 at 3:00 p.m. by the front door of Borlaug Hall for a group picture. The Grad meeting will follow in 306 Borlaug Hall.

A farewell coffee for Shahryar Kianian will be held on Monday, May 5 at 9:30 a.m. in 306 Borlaug Hall.

The next Department Coffee will be held on Wednesday, May 28 at 9:45 a.m. in 306 Borlaug Hall.

A new public copier has been installed in the departmental library (304 Hayes Hall) which can be used with the "U" card.

The H.K. Hayes Memorial Lecture and Hayes Graduate Student Award will be held on Monday, May 12. The lecture will be given by Dr. Martin Apple, Executive Director of the Council of Scientific Society Presidents in Washington, D.C. Jonathan Shaver has been chosen as the recipient of the H.K. Hayes Graduate Student Award.

Graduate Student Award - 2:30 p.m.,

306 Borlaug Hall

Hayes Memorial Lecture - 3:15 p.m.,

335 Borlaug Hall

Reception - 4:15-5:00 p.m.,

306 Borlaug Hall.

Lost: A set of car keys with a water faucet key handle (cold). If found, please return to the main office, 411 Borlaug Hall. Thank you.

## Shape-Up Challenge '97

Tomorrow is Co-Worker Lunch Walk. Double points for walking at lunch with another co-worker (not for the whole day). Remember to keep track of the minutes you exercise each week and record your points on your team's poster the following Monday. A weekly prize of a gift certificate will be awarded by a drawing for individuals who earn at least 200 points for the week. One prize per week. There are approximately 105 people signed up this year for our Shape-Up Challenge.

The video this week is "Health & Lifestyle: Positive Approaches to Well Being." The video will be shown on Thursday, May 1 at 12:10 p.m. in 213 Borlaug Hall. A healthy treat will be served.

## Greenhouse Users

Monday, May 5th is a clean up/watering day. Please make an effort to do some clean up in your greenhouses, especially the 370A users. Fines will be issued. Clean up includes sweeping, disposing of garbage and old plant materials, and picking everything up off the floor. The greenhouses should not be used for storage. All wheelbarrows, shovels, brooms, etc. should be returned to the head house.

Honor Roll: The teaching greenhouses and the barley scab greenhouse have been looking great all year.  
Pamela Altermatt

## Seminars

- April 28 **Agronomy**, Lee DeHaan, The potential for using false indigo in a silvopastoral system, 3:30 p.m., 306 Borlaug Hall.
- Soil, Water, and Climate**, Steve Heiskary, Regional nature of lake & stream water quality in Minnesota with an emphasis on phosphorus, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.
- April 29 **MN Agricultural Experiment Station Project Review**, JoAnn Lamb, Genetics and breeding of alfalfa for new uses, forage quality and persistence, 12:00 noon, 306 Borlaug Hall.
- Plant Biological Sciences Colloquium**, Deborah Charlesworth, Breeding system effects on genetic diversity within and between populations in the plant genus *Leavenworthia*, 3:30 p.m., 33 McNeal Hall.
- April 30 **Computer Series**, Dave Ruschy, Windows 95: A survival guide for the rest of us, 12:10 p.m., 365 Borlaug Hall.
- May 1 **MN Agricultural Experiment Station Project Review**, Neal Martin, 12:00 noon, 306 Borlaug Hall.
- May 2 **Biosystems and Agricultural Engineering**, Kevin Janni, Extension and research needs for Minnesota dairy industry: An engineer's perspective, 1:30 p.m., 106 BioAgEng.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

CENTER FOR RURAL AFFAIRS  
Market Structure Project Leader. Interviews June 1 and June 7.

MICHIGAN STATE UNIVERSITY  
Extension Groundwater Stewardship/Integrated Pest Management Agent--Field Crops, Extension, Human Resources Office. B.S. or M.S. in agriculture, agronomy, water quality or IPM.  
Closing date: May 14, 1997

UNIVERSITY OF MINNESOTA  
Public Relations Manager, Minnesota Extension Service. B.A. or M.S. in journalism, marketing, or speech-communication.  
Closing date: June 13, 1997

UNIVERSITY OF MISSOURI-COLUMBIA  
Assistant Professor/State Extension Forage Specialist, Department of Agronomy. Tenure-track, 12-month faculty position, 70% extension and 30% research. Ph.D. in agronomy or range science.  
Closing date: June 15, 1997

MYCOGEN (Olivia, MN)  
Research Associate I. M.S. in plant breeding or agronomy. Please contact Dennis Schultze at 320-523-1331.

Production Assistant II (Marshalltown, MN). B.S. and basic knowledge of agricultural operations.

ST. OLAF COLLEGE  
Assistant Professor, Department of Biology. One-year position for 1997-98. Ph.D. and demonstrated interest and ability in teaching.  
Closing date: May 2, 1997

SOUTH DAKOTA STATE UNIVERSITY  
Research Assistant, Department of Plant Science. M.S. in biology or related area.  
Closing date: May 15, 1997

USDA (St. Paul)  
Biological Science Laboratory Technician, Plant Science Unit. B.S. in biology, chemistry or agriculture.  
Closing date: May 5, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
May 5, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to the new Grad Club Officers for 1997-98:

President - Ana Maria Procopiuk  
Vice-President - Flavio Capettini  
Secretary - Joann Mudge  
Treasurer - Cristine Handel

The COAFES Award Committee is introducing two new awards this year, one to recognize an extraordinary contribution of a member of the Civil Service and Bargaining Unit Staff and one to recognize the excellent performance of a member of the Professional and Academic staff. Nominations should be sent to Jean Kucera, 277 Coffey Hall by May 9, 1997. A description of the criteria and procedures for the award may be obtained from Jeanne Davy.

### Graduate Student Discussion Group:

There will be a graduate student discussion with Dr. Martin Apple on Sunday, May 11th, at 7:00 p.m. in 306 Borlaug. Dr. Apple, presenting this year's Hayes Lecture, is the Executive Director of the Council of Scientific Society Presidents. Plan to take advantage of the opportunity to interact with Dr. Apple and draw upon his diverse background and activities. Refreshments will be served.

The H.K. Hayes Memorial Lecture and Hayes Graduate Student Award will be held on Monday, May 12. The lecture will be given by Dr. Martin Apple. Jonathan Shaver has been chosen as the recipient of the H.K. Hayes Graduate Student Award.

Graduate Student Award - 2:30 p.m.,  
306 Borlaug Hall  
Hayes Memorial Lecture - 3:15 p.m.,  
335 Borlaug Hall  
Reception - 4:15-5:00 p.m.,  
306 Borlaug Hall.

The 1997 Ag Awareness Days will be held Tuesday, May 13 through Friday, May 16. There is three sessions each day (9:00 - 10:30 a.m., 10:45 a.m. - 12:15 p.m., and 12:30 - 2:00 p.m.). We need six people to help during each session. We expect more than 1000 4th and 5th graders to attend this year. We will need your help. A sign up sheet is posted outside the main office by the mailboxes. Much work has gone into Ag Awareness Days and it is very popular in the local elementary schools. Please help us make it successful. Thank you for your help.

The Ag Awareness Days Committee

The Hort Club will be holding their annual spring plant club sale on Bailey Hill (next to the Student Center) on Thursday, May 15 to Saturday, May 17. A wide assortment of plants will be for sale.

The St. Paul Campus Retirement Luncheon will be held on Tuesday, May 20 at 12:00 noon in the Earle Brown Center. Tickets can be purchased from Nancy Pitzer in Room 42 of the St. Paul Student Center for \$5.50 or at the door for \$6.00. A spaghetti luncheon will be served.

### Shape-Up Challenge '97

Congratulations to Martijn van de Mortel who won a \$20 gift certificate for Rainbow Foods for the first week's prize drawing. Tomorrow is double points day for walking from 11:00 a.m.-1:00 p.m. or 3:00-6:30 p.m. (not for the whole day).

The video this week is "Health Power: The Hands on Approach to Health & Fitness." The video will be shown on Thursday, May 8 at 12:10 p.m. in 213 Borlaug Hall. A healthy treat will be served.

### Greenhouse Users

Today is a clean up/watering day. Please make an effort to do some clean up in your greenhouses, especially 370A users. Fines will be issued. Clean up includes sweeping, disposing of garbage and old plant materials, and picking everything up off the floor. The greenhouses should not be used for storage. All wheelbarrows, shovels, brooms, etc. should be returned to the head house.

## Seminars

May 5 **Agronomy**, Alejandro Peralta, Crop/Pasture rotations: A key for sustainable agriculture in Uruguay, 3:30 p.m., 306 Borlaug Hall.

**Plant Molecular Genetics**, Carolyn Price, Making a million telomeres, 12:00 noon, 239 Gortner Lab.

**Soil, Water, and Climate**, Jim Balogh, Licensing geoscientists in Minnesota - Preparing soil scientists for the 21st century, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

**Animal Science**, Jim Dickrell, Future of the Midwestern Dairy Industry, 3:00 p.m., B35 Classroom Office Building.

May 6 **MN Agricultural Experiment Station Project Review**, John Gronwald, Enhancing the efficacy of biocontrol agents for controlling weeds in legumes and noncroplands, 12:00 noon, 306 Borlaug Hall.

**Plant Biological Sciences Colloquium**, Daphne Preuss, Pollen tube guidance: Talking through walls, 3:30 p.m., 33 McNeal Hall.

May 7 **Minnesota Institute for Sustainable Agriculture (MISA)**, James Dontje, Internship experience, 12:00 noon, 408 Hayes Hall.

May 8 **Special Seminar**, David Perry, Self-organization and the principle of certain uncertainty - Is Murphy's Law a major structuring force in nature?, 11:00 a.m., 306 Borlaug Hall. Co-sponsored by the MN Community Genetics Group and the Department of Forest Resources.

**Philip C. Hamm Memorial Lecture**, Sharon R. Long, Life in the underground: How plants and nitrogen fixing bacteria communicate by chemical signals.

Reception in the upper level of the Earle Brown Center at 3:30 p.m.

Lecture to be held at 4:00 p.m. in 135AC, Earle Brown Center. Everyone is welcome.

**Biotechnology**, Taku Matsushita, Spheroid formation of primary hepatocytes using polyurethane foam and its application to hybrid artificial liver, 3:30 p.m., D230 Mayo, Minneapolis Campus.

May 9 **Biosystems and Agricultural Engineering**, Anne Bridges, Food industry sleuthing -- Imaging technologies at their best, 1:30 p.m., 106 BioAgEng.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF ARKANSAS  
Assistant/Associate Professor, Turfgrass Physiology/Management. Ph.D. in horticulture, agronomy, plant science or related field.  
Closing date: June 15, 1997

UNIVERSITY OF MINNESOTA  
Postdoc-Soil Fertility/Crop Production, Department of Soil, Water, and Climate. Ph.D. in soil science, agronomy, crop science or related discipline.  
Available: immediately.

MYCOGEN SEEDS (Eagan, MN)  
Accounting Intern. Completion of three years towards achievement of B.A. in accounting with a GPA of 3.0.  
Available: May or June.

PIONEER HI-BRED INTERNATIONAL, INC.  
Product Development Manager, Research and Product Development. Ph.D. or equivalent in genetics or plant breeding with a strong background in both whole plant and molecular genetics.  
Closing date: May 15, 1997

USDA  
Botanist - Seed Technologist, Livestock and Seed Division. Degree in botany or basic plant sciences that included at least 24 semester hours in botany.  
Closing date: May 9, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

May 12, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Gregg and Kolleen Johnson on the birth of their son, Andrew Alan. He was born on Thursday, May 8 and weighs 8 lbs. and is 22" long.

### Grand Forks Area Flood Cleanup:

Our department will sponsor a bus to transport volunteers to help with flood cleanup efforts in the Grand Forks area May 16-18. We will join the University-wide group that is going, but our group can be on one bus. We need approximately 40 volunteers to fill a bus. Food and sleeping quarters at UMC's Lysaker Gymnasium will be provided. Buses will leave campus at 8 a.m., May 16 and return at 6 p.m., May 18. With supervisory approval, faculty and staff volunteers will receive Friday as a paid workday; student volunteers will be excused from classes. Volunteers are asked to bring their own sleeping bags, pillows, towels, personal toiletries, rubber boots and gloves, and old clothing. Sign-up sheet is in 411 Borlaug Hall. Sign-up deadline is 4:30 p.m., May 13. Please sign up early as space is limited. For more information call Jean Swanson at (612)625-7773. Also, on the Web at [www.bookstore.umn.edu/flood](http://www.bookstore.umn.edu/flood).

Come share refreshments and stories (you can make these up if you like) at a coffee for Shahryar Kianian on Wednesday, May 14 at 9:30 a.m. in 306 Borlaug Hall. No postponements this time. We promise.

The H.K. Hayes Memorial Lecture and Hayes Graduate Student Award will be held today.

Graduate Student Award - 2:30 p.m.,

306 Borlaug Hall

Hayes Memorial Lecture - 3:15 p.m.,

335 Borlaug Hall

Reception - 4:15-5:00 p.m.,

306 Borlaug Hall.

This is a reminder to all persons purchasing film and having film processed at Picture Maker. Be sure and turn in your receipts to Judy or Marilyn. Payment is processed from that receipt. No receipt, no payment. No payment, no processing for persons from our department. Get the picture? Turn in your receipts. Marilyn Hole

The Executive Committee of the Illinois Missouri Biotechnology Alliance (IMBA) is soliciting proposals for research and development projects consistent with the IMBA mission. This is the third annual request for proposals. Application deadline is June 30, 1997. IMBA is a federally funded \$1.3 million special grant project. The IMBA mission is to increase the volume of profitable business in the U.S. Food and agricultural sector. See Jeanne for details.

The Ag Awareness Days will be held tomorrow through Friday, May 16. We still urgently need people to help lead groups of children from one display to the next. The sign up sheet is near the mailboxes. Please sign up for at least one time period. Ag Awareness Days Committee

Steam service shutdown is required for repair of a high pressure steam valve in Hayes Hall and Stakman Hall on Tuesday, May 13 from 7:30 a.m. to 12:00 noon. All steam services will include heating, process steam and autoclaves.

Reminder that the next Departmental Coffee will be held on Wednesday, May 28 at 9:45 a.m. in 306 Borlaug Hall. Muffins, coffee and juice will be served. Hope to see you there. Sponsored by the Northrup King Development Committee and the Social Committee.

## Greenhouse Users

NW greenhouse will not be watered Memorial Day Weekend or after. All personal plants should be removed or plans made to water them.

Pamela Altermatt

## Shape-Up Challenge '97

Congratulations to Charlotte Conn who won a \$20 gift certificate to the Olive Garden for the second week's prize drawing. Tomorrow is double points day for walking at lunch with another co-worker

The video this week is "Nutrition: Eat & Be Healthy." The video will be shown on Thursday, May 15 at 12:10 p.m. in 213 Borlaug Hall. A healthy treat will be served.

Our department is one of nine organizations participating in the Shape-Up Challenge. After week #1, we ranked 4th for average points per employee. After week #2, we moved up to 3rd place. Keep up your enthusiasm and keep challenging yourself to earn those points!

Division II Standings:

1. Lucht Engineering
2. John Deere Co.
3. U of M, Department of Agronomy
4. U of M, Boynton Health Service
5. GMAC
6. Northwestern College of Chiropractic
7. City of Edina
8. Richfield Bank & Trust
9. Bloomington Marriott

**Seminars**

May 12 **Soil, Water, and Climate**, Jorja DuFresne and Pat Burford, Development of regulations for biosolids (sludge) and other industrial solid wastes, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

May 13 **MN Agricultural Experiment Station Project Review**, Erv Oelke, Canola and wild rice production, 12:00 noon, 306 Borlaug Hall.

**Animal Science**, Temple Grandin, Relationship between livestock behavior and handling, 7:00 p.m., Auditorium, St. Paul Student Center.

May 16 **Biosystems and Agricultural Engineering**, Enrique Rotstein, Process technology at Pillsbury, 1:30 p.m., 106 BioAgEng.

**Biotechnology**, Isao Endo, Metabolic network analysis, 3:00 p.m., 240 Amundson Hall, Minneapolis Campus.

**Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

OHIO STATE UNIVERSITY  
Endowed Chair of Agricultural Ecosystems Management, Full Professor.  
Closing date: June 1, 1997

OKLAHOMA STATE UNIVERSITY  
Research Specialist, Department of Botany. B.S. and at least one year laboratory experience is required; M.S. in biological sciences is preferred.  
Closing date: June 1, 1997

OREGON STATE UNIVERSITY  
Graduate Research Assistantships, Department of Crop & Soil Science. B.S. in crop science or soil science.

PENNSYLVANIA STATE UNIVERSITY  
Assistant or Associate Professor, Department of agronomy or closely related field with advanced knowledge and experience in crop management/ecology and a demonstrated ability in oral and written communications. Tenure-track, 70% teaching and 30% research.  
Closing date: August 1, 1997

PIONEER HI-BRED INTERNATIONAL, INC.  
Bioinformatics Software Engineer. M.S. or combined equivalent of education and experiences in science and information engineering.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics

University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

May 19, 1997

MW  
9 Aug 60

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A faculty meeting will be held on Tuesday, May 20 at 1:30 p.m. in 306 Borlaug Hall.

The St. Paul Campus Retirement Luncheon will be held on Tuesday, May 20 at 12:00 noon in the Earle Brown Center. Tickets may be purchased at the door for \$6.00. A spaghetti luncheon will be served, drawings for great gifts throughout the luncheon, and special tribute to the retirees. Everyone is welcome to attend.

The 1997 Life Sciences Undergraduate Research Symposium, sponsored by the College of Biological Sciences Honors Program, will be held on Wednesday, May 21 from 1:30-4:00 p.m. Oral presentations will be held from 1:30-2:00 p.m. and poster sessions from 2:00-4:00 p.m. The symposium will be held in the Ecology Building Foyer. Topics include: pain perception, heart transplants, parkinson's disease, alzheimer's disease, wetland reclamation, and methanol poisoning. Everyone is welcome. Refreshments will be served.

The University of Minnesota will be closed on Monday, May 26 for Memorial Day.

A Departmental Coffee will be held on Wednesday, May 28 at 9:45 a.m. in 306 Borlaug Hall. Muffins, coffee and juice will be served. Sponsored by the Northrup King Development Committee and the Social Committee.

President Nils Hasselmo and his wife Pat will host a reception for graduating students and their families at Eastcliff on Saturday, June 14. All University students graduating this spring or summer are invited to attend. Please call 627-6800 to make a reservation.

## Crops & Soils Field Days

Southern Experiment Station,

Waseca - Tuesday, June 24

Southwest Experiment Station,

Lamberton - Wednesday, June 25

West Central Experiment Station,

Morris - Thursday, July 10

## Shape-Up Challenge '97

Congratulations to Tammy Dunrud who won a \$20 gift certificate to Rainbow Foods for the weekly prize drawing. Tomorrow is B-BOP Day and National Employee Health and Fitness Day. Double points if you bike, bus, car pool or walk to work or ... walk at lunch with three of your co-workers for double points.

The video this week is "Fitness & Conditioning Benefits for a Lifetime." The video will be shown on Thursday, May 22 at 12:10 p.m. in 213 Borlaug Hall. A healthy treat will be served.

## Seminars

May 19 Soil, Water, and Climate, Patrick Brezonic, Water resources science graduate program, 3:00 p.m., 375 Borlaug Hall. Cookies and tea at 2:45 p.m.

Animal Science, Larry Schook, Factors involved in developing successful departments, 3:00 p.m., B35 Classroom Office Building.

Forest Resources, Jose-Luis Machado, Distribution and growth of tree seedlings in the understory of white pine forests in northern Minnesota, 2:30 p.m., 203 Green Hall.

May 20 Special Seminar, Zygmunt Staszewski, Plant breeding in Poland, 11:00 a.m., 306 Borlaug Hall.

Plant Biological Sciences & Plant Molecular Genetics Colloquium, John Harada, Dead embryos tell tales: Embryogenesis in Arabidopsis, 3:30 p.m., 33 McNeal Hall.

May 21 Minnesota Institute for Sustainable Agriculture, Lisa Sass-Zaragosa and others, Migrant project trip report, 12:00 noon, 408 Hayes Hall. Participants will discuss their experiences on the South Texas and Mexico border where they explore the lives of migrant farm workers.

### Seminars

- May 21 Candidate for the Bailey Endowed Chair (Horticulture), Barbara Goulart, Ericoid mycorrhizae and other mysteries: A horticultural scientist's trail of questions, 10:00 a.m., 306 Borlaug Hall.
- May 23 Institute for Social, Economic and Ecological Sustainability, William Rees, Ecological footprints: Why conventional sustainable development isn't, 3:30 p.m., West Bank Auditorium.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF ARKANSAS

Extension Livestock Specialist - Forages. Ph.D. in animal science, agronomy, plant science, or a related discipline.

Closing date: July 1, 1997

#### INTERNATIONAL CENTER FOR RESEARCH IN AGROFORESTRY (ICRAF)

Director of Development. Ph.D. in an applied biophysical or social science.

Closing date: August 1, 1997

#### Organic Opportunity

Organic certification agency is seeking part-time independent contractors to enhance its Certification Committee. Please call, or send cover letter and resume' to: Organic Growers and Buyers Association (OGBA), 7362 University Ave., N.E. - Suite 208, Fridley, MN 55432-3102  
612-572-1967 or 1-800-677-6422.

Fax: 612-572-2527 or e-mail: ogba@sprynet



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
May 27, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally-sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Ana Maria Procopiuk and Marcelo Morelli on the birth of their baby girl on Thursday, May 22. Karina weighed 8 lbs. 15 oz.

The Departmental Coffee will be held tomorrow at 9:45 a.m. in 306 Borlaug Hall. Muffins, coffee and juice will be served. This is sponsored by the Northrup King Development Committee and the Social Committee. Everyone is invited!!!

Employee Information Sessions have been scheduled for employees to hear and ask questions regarding the conversion to Biweekly Payroll. These sessions do not include employees covered by bargaining unit agreements. There will be a meeting on June 16 from 9:00-11:00 a.m. in B35 Classroom Office Building.

Agronomy Department--Students, Staff, and Faculty: Please take note. If you have not had the opportunity to learn "The Seven Habits of Highly Effective People" and would like to register for one of the 1997 program offerings, the Northrup King Fund will cover your registration fee. Contact Marilyn for more information on the June 18, 19, 20 workshop; July 10, 17, 24 workshop; or Fall Quarter Tuesday/Thursday class.

## Shape-Up Challenge '97

Congratulations to Carroll Vance who won a \$20 gift certificate to the Olive Garden for the weekly prize drawing. Today is double points day for walking from 11:00 a.m.-1:00 p.m. or 3:00-6:30 p.m. Shape-Up Challenge cumulative total (weeks 1-4) placed our department in 4th place for average points per employee and 4th place for average points per participant.

At this point in time all who are participating know the benefits of regular physical activity:

- Increased energy
- Reduce stress
- Improved self-image
- Helps to relax and feel less tense
- Improves ability to fall asleep and sleep well
- Reduces the risk of many chronic diseases or conditions such as heart disease, stroke, diabetes, obesity, and high blood pressure.

This is the final week to get those points! Remember individuals that have averaged at least 200 points each for the six weeks will be included in a drawing for ten individual grand prizes.

## NSF SHARED INSTRUMENTATION GRANTS

There are at least four NSF Instrumentation Grant programs this year - two of which have already passed and all of which are not well publicized. In terms of those that are approaching, there is an instrumentation development program that has a deadline of the last Monday in August and then there is the "normal" NSF Bio Instrumentation Program that has a deadline of the last Monday in July.

The NSF Bio Program (Multi-User Biological Equipment and Instrumentation Resources) provides cost-shared support for the acquisition of major items of specialized multi-user instrumentation, providing access to state-of-the-art instruments. The instrumentation must be used in the conduct of research that falls within the BIO Directorate (ie., not directly medically related). The purchase of instrumentation, for which NSF funding is requested in the range from \$20,000 to \$400,000. An important requirement is the assumption of 30-50% cost-sharing of the capital cost by the institution. Although the support of NSF funded research is not a requirement, I've always tried to include as many NSF supported projects as possible. For further information see: <http://www.nsf.gov/bio/pubs/nsf9691/nsf9691.htm>

Again, the proposal deadline is July 28, 1997.

Dee McManus (Lab Products Information Services)

MID  
Ag 86a

## Greenhouse Users

June 2nd is a clean up/watering day.

**\*\*EVERYBODY WITH MATERIALS IN THE GREENHOUSES NEEDS TO SWEEP!!**

**\*\*If you have been washing sand under your benches, it should get cleaned up.**

**\*\*With the exceptions of the clay pots in the small grains greenhouses and the corn greenhouses with pot racks built under the benches, there isn't any pot storage in the greenhouse.**

**FINES WILL BE ISSUED!!**

## Seminars

- May 27 **Plant Biological Sciences**, Beth Kent, How are dwarfism and anthocyanin overproduction related to trichome development?, 3:30 p.m., 33 McNeal Hall.
- May 29 **Biotechnology**, David Ow, Heavy metal tolerance gene of fission yeast, 3:30 p.m., 375 Borlaug Hall.
- May 30 **Biosystems and Agricultural Engineering**, Jeffrey Tate, From test-tubes to the target store: Bioprocessing resources to support research and process development in biotechnology, 1:30 p.m., 106 BioAgEng.
- June 13 **Special Seminar**, Colin Wrigley-CSIRO, Wheat quality, the product of genes and growth environment, 2:00-3:15 p.m., 306 Borlaug Hall. Dr. Wrigley has held the position of Officer in Charge at the Grain Quality Research Laboratory, Division of Plant Industry, CSIRO in North Ryde, Sydney, Australia and is an expert known worldwide for his work on the genetics of cereal grains, particularly wheat. The presentation will be followed by an informal discussion and refreshments. Everyone is welcome to attend. If you have questions, please contact Elaine Asp or Carol Bruzzone in the Department of Food Science and Nutrition.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

COLORADO STATE UNIVERSITY  
Floriculture Crops Research and Teaching,  
Department of Horticulture and Landscape  
Architecture. Ph.D. in horticulture or other  
closely related plant science discipline.

Closing date: June 15, 1997

KANSAS STATE UNIVERSITY  
Graduate Research Assistantship, Department of  
Agronomy, Crop, Soil, and Range Sciences. M.S.  
in weed science, plant breeding, genetics,  
agronomy, or plant physiology.

Closing date: August 15, 1997

UNIVERSITY OF KENTUCKY  
Assistant/Associate Professor, Department of  
Agronomy. Ph.D. in plant biochemistry, plant  
physiology or related field.

Closing date: June 6, 1997

## MINNESOTA CROP IMPROVEMENT ASSOCIATION

Minnesota Crop Improvement Association is  
looking for a Laboratory Records Specialist to  
relay laboratory information to customers over  
the phone, enter sample date, process and  
maintain laboratory and variety description  
records, and provide laboratory and field backup  
support. Two years post-secondary  
required/B.A.+\* or B.S. desired. Call Brenda at  
MCIA (625-7766)  
for more details.

MONTANA STATE UNIVERSITY  
Superintendent and Assistant/Associate Professor  
of Agronomy, Northwestern Ag Research Center.  
Ph.D. in agronomy or a closely related field.

Closing date: August 4, 1997

NORTH CAROLINA STATE UNIVERSITY  
Assistant Professor, Soil Science Department.  
Tenure-track, 50% research, 50% extension, and  
12-month appointment.

Closing date: August 15, 1997

WALDORF COLLEGE  
Two full-time professors in biology. Ph.D.  
preferred.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 2, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Thank You

I would like to thank the entire Department of Agronomy and Plant Genetics for the very special day on May 12<sup>th</sup>. I am truly honored to have been selected as the 24<sup>th</sup> recipient of the H.K. Hayes Graduate Student Award. I appreciate the effort by the Hayes committee to provide me with a very special day with the award ceremony and hosting Dr. Martin Apple as the Hayes Memorial Lecturer. I thank those individuals who have contributed to the H.K. Hayes Memorial Fund that provided for the very nice plaque and the H.K. Hayes scholarship. Most of all, I thank the faculty, staff and students of the Department for their support in my selection and recognition as the H.K. Hayes Graduate Student Award recipient for 1997.

Sincerely, Jonathan M. Shaver

## Announcements

Congratulations to Alvaro Rivera who won a \$20 gift certificate for week five of the Shape Up Challenge.

The Staff Demographic Information Update forms that were distributed in your mailboxes on Friday, should be returned to Jeanne Davy.

Gopher Crops & Soils Club Steak Fry will be held on Wednesday, June 4 at 5:00 p.m. at Central Park at the Dale Shelter. All students and faculty are welcome. Cost is \$5.00 for faculty and \$2.50 for students. Sign up sheet in 302 Hayes Hall.

The Minnesota Chapter of the Soil and Water Conservation Society summer meeting will be held on June 12 at Dakota County Technical College. The topic will be "Why is the Rosemount Agricultural Experiment Station Important?" Registration is at 8:30 a.m. in room 2-140. Field tour topics will include: Site overview, research facilities, industrial area/munitions plant, watershed issues, turfs and grounds research and precision agriculture.

Note to all Agronomy and Horticulture people. On Thursday, June 12, 1:00-4:00 p.m., Agron 5310 will visit the Red Cardinal Farm on the East Edge of St. Paul. RCF is a Community Sponsored

Agriculture (CSA) operation done organically. The class has visited RCF before and received a good tour. All Horticulture and Agronomy faculty and students are invited to join us--please let us know if you will join us so we can arrange transportation. Deon Stuthman

## Greenhouse Users

**WATERING:** All projects are responsible for their own watering June 2nd, 3rd, & 4th.

Today, June 2nd is a clean up/watering day. There is some majoring cleaning that needs to be done. Empty pots should be cleaned and returned to where you got them. All plastic should be cleaned up out of the greenhouses. If you are finished with your plant material, it should be disposed of. With the exception of the greenhouses that have pot storage, all pots are to be stored in the headhouse. Thanks for your help.

Mike and I will be making a tour of the greenhouses later this week.

## Seminars

June 2 **Agronomy**, Eric Hoeft, Genetically engineering herbicide resistant crops, 3:30 p.m., 306 Borlaug Hall.

**Animal Science**, John Hall, The Grand Rapids cow-calf research program -- present and future, 3:00 p.m., B35 Classroom Office Building. Coffee and cookies will be served.

June 3 **Plant Biological Science**, Brian Larkins, Maize endosperm development: You are what you eat, 3:30 p.m., 33 McNeal Hall.

June 4 **Ph.D. Thesis Defense**, Yanping Zhu, Dry matter accumulation, nodulation, dinitrogen fixation, and nodule strain occupancy of annual medics, 9:00 a.m., 306 Borlaug Hall.

## Seminars

June 5 **Ph.D. Thesis Defense**, Rosana Figueroa-Ruiz, An evaluation of methodology for the Minnesota relative maturity system of rating corn hybrids, 2:00 p.m., 306 Borlaug Hall.

June 6 **Special Seminar**, Dr. Tom Krill (Ohio State University), Use of combine yield monitors in precision agriculture, 9:00-10:00 a.m., open discussion to follow. Room 342, Cenex/LOL, Inver Grove Heights. Sponsor: Cenex/LOL Ag Tech Services. If questions, call Dale Hicks (451-5455) or Rick Vanden Heuvel (451-4352). All are welcome to attend.

June 13 **Special Seminar**, Colin Wrigley-CSIRO, Wheat quality, the product of genes and growth environment, 2:00 p.m., 306 Borlaug Hall. Dr. Wrigley is an expert known worldwide for his work on the genetics of cereal grains, particularly wheat. The presentation will be followed by an informal discussion and refreshments. Everyone is welcome to attend. If you have questions, please contact Elaine Asp or Carol Bruzzone in the Department of Food Science and Nutrition.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

Postdoctoral Position with Biocem (a division of Limagrain) in Clermont-Ferrand, France. Two year QTL project in corn involving map based cloning of genes related to silage digestibility. Contact Dr. Jung for more information.

### MICHIGAN STATE UNIVERSITY

Extension Groundwater and Freshwater Agent, Extension. B.S. or M.S. in a field that is applicable to water quality, natural resources, or ecology.

Full-time, temporary for four years.

Closing date: June 27, 1997

District Extension Sugar beet Agent, East Central Region, Extension. B.S. and knowledge of sugar beet production.

Closing date: June 27, 1997

Extension Agriculture and Natural Resources Agent, Extension (two positions). B.S. or M.S. in agriculture.

Closing date: June 27, 1997

### UNIVERSITY OF MINNESOTA

Two Associate Dean Positions, College of Agricultural. Ph.D. and demonstrated excellence in research and scholarship justifying tenure.

Closing date: July 1, 1997

### UNIVERSITY OF MISSOURI

Postdoctoral position in soybean breeding, Delta Center. Ph.D. in plant breeding/genetics and a good knowledge of computers and statistics are necessary.

Closing date: July 31, 1997

### MONSANTO LIFE SCIENCES COMPANY

(Agracetus Campus in Madison, WI)  
BS/MS-Molecular Biologists in Nutrition and Pharmaceutical; Ph.D.-Plant Molecular Biologist in Nutrition; Ph.D.-Plant Molecular Biochemist in Nutrition; Ph.D.-Plant Molecular Physiologist in Nutrition; Ph.D.-Molecular Biochemist in Pharmaceutical.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 9, 1997

MW  
9/19/86

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Dr. Herbert Kramer, who received his Ph.D. in plant genetics from this department in 1946, died recently in Sun City, Arizona. Dr. Kramer was a recipient of the University of Minnesota's Outstanding Achievement Award in 1968 for his research in plant genetics, particularly endosperm characters in corn and chromosomal interchanges in corn and barley. During his career, he was director of the Agricultural Experiment Station at Purdue University.

### ATTN: Credit Card Users

If you are using your Purchasing Card on a Grant - be sure your purchases are permitted - some of the restricted items are:

- Computer Software
- Office Supplies
- Registrations

If your not sure, see Judy or Marilyn.

Testing has essentially been completed on the new growth chambers in the Crop Service Building and all are now ready for use. There are currently two large and two small chambers not being used. If anyone needs space, contact Donn Vellekson at 625-9765.

Congratulations to Kim Torbert Shape Up Challenge winner for week #6. Kim received a \$20 gift certificate to the Olive Garden.

Our department has been consistent in the competitive rankings of the nine organizations participating. After week #5, we maintained our 4<sup>th</sup> place for average points per employee.

Final standings to be reported in the next Gleanings along with plans for the ten grand prize drawings.

**Weight Control Hints:** Do not eat fewer than 1200 calories a day. If you eat less, you won't get adequate vitamins or minerals; Eat only at meals or scheduled snack times; Maintain your exercise program; Drink plenty of water with your meals; Keep a supply of low-calorie snacks on hand; and Weigh yourself weekly.

Note to all Agronomy and Horticulture people: On Thursday, June 12, 1:00-4:00 p.m., Agron 5310 will visit the Red Cardinal Farm on the East Edge of St. Paul. RCF is a Community Sponsored Agriculture (CSA) operation done organically. The class has visited RCF before and received a good tour. All Horticulture and Agronomy faculty and students are invited to join us--please let us know if you will join us so we can arrange transportation. Deon Stuthman

You are invited to a retirement party for Wes Hackett on Friday, June 13 at the Minnesota Landscape Arboretum in Chanhassen. Reception will start at 5:00 p.m., dinner at 6:00 p.m., and a program at 7:00 p.m. Please RSVP to Kathy Lloyd at 624-4742. Dinners are \$20 each. Kathy will accept your gift donations when you make your reservations.

The Annual Agronomy Department Fishing and Camping Trip will be held on Friday, June 13 to Sunday, June 15 at Maplewood State Park Group Camp. For information, please contact Eric Ristau at 5-6266 or rista001@maroon.tc.umn.edu.

A Biweekly Employee Information Session will be held on Monday, June 16 from 9:00-11:00 a.m. in B-35 Classroom Office Building. Employees can hear and ask questions regarding the conversion to Biweekly Payroll. These sessions do not include employees covered by bargaining unit agreements.

When hosting a visitor to the department, there is a Faculty House that is available. Wales House is located at 1115 Fifth Street Southeast, Minneapolis. It has been in operation for three year and has catered to many international academic visitors. There are nine guest rooms in an antique-filled historic house. Continental breakfast, furnished kitchen and on-site laundry is available. Rates are between \$27.50 to \$59.00/night. For more information, call 331-3931/fax 331-8054/e-mail: waleshouse@aol.com.

**NOTICE:** Any project that will be going to Morris in the near future, would you please bring back ten bags of Buckwheat, if you have room in your vehicle. Appreciate your cooperation. Call Mike for details at 4-5395.

### **Crop Molecular Geneticist Assistant Professor Interview Seminars**

- June 13 Dr. Gary Muehlbauer, Tools for germplasm enhancement: Genetics, biochemistry and developmental biology, 9:30 a.m., 306 Borlaug Hall.
- June 19 Dr. Mark Burow, Title: To be announced, 9:30 a.m., 306 Borlaug Hall.
- June 23 Dr. David Songstad, Regulation of pollen production in transgenic maize, 12:30 p.m., 306 Borlaug Hall.
- June 25 Dr. Arla Bush, Title: To be announced, 9:30 a.m., 306 Borlaug Hall.

### **Seminars**

- June 12 Ph.D. Defense, Mark Schoenbeck, Physiological and molecular analyses of two genes expressed in alfalfa root nodules, 11:00 a.m., 491 Borlaug Hall.
- June 13 Special Seminar, Colin Wrigley-CSIRO, Wheat quality, the product of genes and growth environment, 2:00 p.m., 306 Borlaug Hall. Everyone is welcome to attend.

### **Position Announcements (Posted in notebook in 411 Borlaug Hall)**

**GOLDEN HARVEST SEEDS, INC.**  
Research Assistant - New Technology/Winter Nursery. M.S. in agriculture, preferably agronomy, two years or more working experience in plant breeding or research, bilingual in English and Spanish and mechanical experience.  
Starting date: July 1, 1997

**UNIVERSITY OF ILLINOIS**  
Assistant/Associate Professor of Soybean Breeding and Genetics, Department of Crop Sciences. Ph.D. in plant breeding and genetics or a closely related field. Tenure-track, nine month position, 75% research and 25% teaching.  
Closing date: August 15, 1997

**INSTITUTE OF TERRESTRIAL ECOLOGY**  
(Edinburgh, Scotland)  
Postgraduate Studentship. Focuses on the effect of land use (including fertilizer application and cropping) on nitric oxide release from soils.  
Closing date: July 2, 1997

**KANSAS STATE UNIVERSITY**  
Professor/Head, Department of Agronomy. Ph.D. in crop, soil, range, or weed science, demonstrated effective leadership and communication skills, and national recognition in instruction, research, or extension.  
Closing date: July 1, 1997

Graduate Research Assistant, Department of Agronomy. B.S. or M.S. in soil science, soil chemistry, soil fertility, or related field.

Graduate Research Assistant, Forages. Department of Agronomy. B.S. or M.S. in agronomy, range science, biology, or related field.

**UNIVERSITY OF MINNESOTA**  
Research Associate, Department of Plant Pathology. Non-tenure track, 12 month position. Current funding for two years. Ph.D. and one or more years postdoctoral experience in plant transformation and screening of transformants.  
Closing date: July 15, 1997

**MISSISSIPPI STATE UNIVERSITY**  
Research Assistant I, Department of Plant and Soil Sciences. B.S. or M.S. in weed science, farm background, knowledge of statistics and computer analysis.  
Closing date: June 15, 1997

**UNIVERSITY OF NEBRASKA-LINCOLN**  
Research Technologist I, Department of Agronomy. B.S. in agriculture, geography, computer science or a related field. Two years experience is required.  
Closing date: June 13, 1997

**SOUTH DAKOTA STATE UNIVERSITY**  
Senior Research Assistant/Research Associate, Plant Science Department. M.S. or B.S. in agronomy, geography, horticulture, or biology, experience in farming systems, field equipment, good computer skills and interpersonal relations skills.  
Closing date: July 15, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 16, 1997

411U  
8/19/869

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Root Beer Floats will be served today at 3:00 p.m. in 306 Borlaug Hall for all Shape Up Challenge Participants. Ten individual grand prizes will be drawn for participants who averaged 200 points per week. The team with the highest points receives a pizza party.

The faculty meeting scheduled for June 23 has been canceled. Please hold your calendars for July 14 at 1:00 p.m.

## Greenhouse Users

Those with access to the Weeds Greenhouse make sure that the doors are locked after 4:30 p.m.

Hoses are not to be removed from the greenhouses!!

Even with all my reminders, it seems that most of you are having a hard time remembering the clean up/watering days. Mark the following days on your calendars: July 7th, August 4th, September 8th, October 6th, November 3rd and December 1st.

All are the first Monday of the month.

There are some plants with unknown owners in the greenhouses--the barley house and 370C2. If these are your plants, please let me know.

Pamela Altermatt

## Crop Molecular Genetics Assistant Professor Interview Seminars

Gary Muehlbauer seminar has been videotaped. Please see Jeanne Davy if you would like to see it.

June 19 Dr. Mark Burow, Use of Molecular Markers in Breeding for Root-Knot Nematode (*Meloidogyne arenaria*) Resistant Peanut, 9:30 a.m., 306 Borlaug Hall.

June 23 Dr. David Songstad, Regulation of Pollen Production in Transgenic Maize, 12:30 p.m., 306 Borlaug Hall.

June 25 Dr. Arla Bush, Title: To be announced, 9:30 a.m., 306 Borlaug Hall.

## Candidates Visits Crop/Weed Management Position in Partnership with Southwest State

June 16 Steve Fennimore, Purdue.

June 20 Elizabeth Dyck, Postdoc, Kenya Agricultural Research Institute/Rockefeller Foundation.

June 23 Scott Steinmaus, Postdoc, UC-Riverside.

June 24 John Hinz, Asst. Prof., West Virginia University.

## Special Seminar

Dr. Robert de la Pena, Molecular Markers and the Scab Epidemic: Tagging Fusarium Species and Resistance QTLs in Barley, Friday, June 20, 12:00 noon, 491 Borlaug Hall.

## Grants Received

Nevin Young and James Orf, Developing Cyst-Nematode-Resistant Soybeans with Traditional Breeding and Molecular Mapping Techniques, \$110,817 - 4/1/97-4/30/98.

James Orf, Soybean Breeding and Genetics Support, \$112,950 - 4/1/97-4/30/98.

David Somers, Increasing Protein and Oil Content of Soybeans, \$74,080 - 4/1/97-4/30/98.

Burle Gengenbach, Molecular Genetics of an Enzyme Required for Fatty Acid/Lipid Synthesis, \$81,336 - 4/1/97-4/30/98.

James Orf, Michael Schmitt, and Gyles Randall, Application of Swine Manure for Soybeans: Plant Nutrient Uptake Implications, \$26,116 - 4/1/97-4/30/98.

Robert Busch, Wheat Breeding Project, \$12,000 1/1/97-12/31/97.

**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

ATTRA (Appropriate Technology Transfer for Rural Areas)

Technical Specialist. M.S. in agronomy, soil, integrated pest management, or horticulture, temporary, part-time.

Closing date: July 15, 1997

Technical Specialist, Marketing/Farm Management. M.S. in agricultural economics or marketing.

Closing date: August 15, 1997

**LANDEC CORPORATION**

Seed Physiologist. Ph.D., or M.S. in plant physiology, agronomy, or relevant discipline with two-five years experience in seed industry.

**UNIVERSITY OF MINNESOTA**

Graduate Research Assistantship in plant natural product chemistry, Department of Plant Biology. Applicants should have a good background in organic chemistry and basic laboratory skills.

Postdoctorate Associate, Department of Soil, Water, and Climate. Positions available may be in all areas of soil, water, and atmospheric resources.

**NORTH DAKOTA STATE UNIVERSITY**

Research Center Scientist, North Central Research Extension Center. Ph.D. in plant or crop science with emphasis in weed science.

Closing date: August 29, 1997

**PIONEER HI-BRED INTERNATIONAL, INC.**

Soybean Research Manager. Ph.D. in plant breeding, one-three years of plant breeding research experience, strong background in genetics, plant pathology, and data analysis.

Closing date: July 10, 1997

**SOUTH DAKOTA STATE UNIVERSITY**

Extension Agent - 4-H/Agriculture, Cooperative Extension Service. B.S. in agriculture with a major in agricultural field and demonstrated effective communications.

Closing date: June 30, 1997



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 23, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Congratulations to Dave and Sue LeGare on their new baby girl born on Saturday, June 21. Laura Ann weighed 10 lbs. 6 oz.

The weather cooperated terrifically for the Department campers last weekend and Maplewood State Park proved to be a nice site for our annual gathering. Some nice fish were caught including Doug Swanson's 4 lb. walleye and the Halgersons' nice mess of large sunfish. Christy Miller set a new trip record by landing a six fish limit of walleyes in under an hour! Sophie Ristau perhaps set a record for most angleworms fed to the sunfish. Doug Swanson was chosen Best Fisherman for 1997 and Doug Miller was voted chairman for next year's trip. Please consider joining us next June! Eric Ristau

If anyone is planning to drive to Waseca Field Days on Tuesday morning and has room for two riders, please contact Jean Swanson.

A retirement reception will be held for Dr. Donald Otterby, Professor and Head of the Department of Animal Science, after 34 years of outstanding service and dedication. The reception will be held on Monday, June 30 from 2:00-4:00 p.m. at the Earle Brown Center Lobby.

Dr. Mike Martin has announced that Dr. Laurie Hayes has accepted a position as Vice Provost at Colorado State University and thus, will be leaving her role as associate dean for student and curricular affairs. Dr. Martin is leaning toward an internal search for an interim associate dean to serve for six months to a year; then conduct a national search for a permanent replacement. This would allow the semester conversion and the central administration transition before seeking someone from outside the University. He is open to suggestions and an alternative to this approach.

A safety meeting will be held on Tuesday, July 1 on "Pesticide Rinsate and Sprayer Cleanup: What's Right & What's Wrong." Speakers will be Gary Elsner, Minnesota Department of Agriculture and Gordon Girtz, Environmental Health and Safety. The meeting will be held at 10:00 a.m. in the Agronomy Greenhouse Classroom. A hands-on portion will follow this in the Agricultural Pesticide Facility. All personnel who use the Agricultural Pesticide Facility are encouraged to attend.

## Field Days

- June 24 - Waseca (Southern Experiment Station).
- June 25 - Lamberton (Southwest Experiment Station).
- July 1 - Morris (Alfalfa Management Field Day in association with MnVAP).
- July 10 - Morris Field Day (West Central Experiment Station).

## Greenhouse Users

Fines were not issued last month so they will be double JULY 7<sup>th</sup>. Those of you who have material in the greenhouses should probably think about doing some serious cleaning.

**\*\*SAND IS VERY SLIPPERY ON CEMENT FLOORS. I HAVE SLIPPED ON IT BEFORE & I WOULD HATE TO HAVE THE WEEKEND WATERER FALL AND GET HURT.**

**\*\*WHEN YOU ARE FINISHED WITH A PROJECT, ALL SOIL & PLANT MATERIAL SHOULD BE DISPOSED OF ASAP.**

**\*\*PROJECTS WILL BE CHARGED FOR MISSING HOSES AND NOZZLES.**

**\*\*THERE ARE SOME UNCLAIMED ALFALFA PLANTS IN 370C2. THEY WILL BE THROWN TOMORROW.**

**\*\*FYI--All pesticide applications should be documented on the sheets hanging on the bulletin board in the 370 head house. I will put some signs, that you should be posting on the greenhouse doors, in the room by the phone. The signs should be removed at the end of the reentry period. If you use transparency markers on the signs, it will wash off with water. Thanks.**

Pamela Altermatt

**Wanted:** Apartment to rent/sublease September-December, 1997 by Danish visitor with spouse and small child. Call Rosalind at 625-6299.

**Moving Sale:** 89 Honda Accord LX-i, 84K, AT, AC, Fully loaded, Champagne color, \$4,800/bo. Panasonic fax machine with digital phone system, less than one year old, \$260 (new \$350). Please call Aimin Liu at 633-6998 or 5-8132.

**Found:** Keys found in 5<sup>th</sup> floor of Women's Restroom. Three keys on a blue key ring. Please claim these in 411 Borlaug Hall at the front desk.

**Candidates Visits for  
Assistant Professor Position  
in Crop Molecular Genetics**

June 23 David Songstad, Regulation of Pollen Production in Transgenic Maize, 12:30 p.m., 306 Borlaug Hall.

June 25 Arla Bush, Genetic Analysis of Crown Rust Resistance in Hexaploid Oat, 9:30 a.m., 306 Borlaug Hall.

**Candidates Visits for  
Crop/Weed Management Position in  
Partnership with Southwest State**

June 23 Scott Steinmaus, Assessing Acclimative and Adaptive Potential of Weeds in Agroecosystems: An Ecological Perspective on Velvetleaf (*Abutilon Theophrasti*), 2:30 p.m., 335 Borlaug Hall.

June 24 John Hinz, ALS Herbicide Resistance in an Iowa Common Waterhemp (*Amaranthus rudis*) Population, 10:00 a.m., 306 Borlaug Hall.

**Position Announcements  
(Posted in notebook in 411 Borlaug Hall)**

**IOWA STATE UNIVERSITY**  
Assistant/Associate Professor, Department of Agronomy. Ph.D. in agronomy or other closely related field. Development of sustainable cropping systems involving corn, soybeans, small grains, forage and other potential crops.

Closing date: September 1, 1997

Associate Dean - Extension, College of Agriculture. Full-time, 12-month position. Ph.D. in biological, physical or social science discipline with an excellent record of research, teaching or outreach.

Closing date: November 1, 1997

**NORTH DAKOTA STATE UNIVERSITY**  
Research Center Scientist, North Central Research Extension Center. Ph.D. in plant or crop science with emphasis in weed science.

Closing date: August 29, 1997

**OREGON STATE UNIVERSITY**  
Postdoctoral Research Associate, Department of Crop and Soil Science. Ph.D. in soil science, microbiology, or closely related field.

Closing date: September 1, 1997

**PURDUE UNIVERSITY**  
Assistant Professor, Department of Horticulture. Ph.D. in horticulture, botany, ecology or a related field. Postdoctoral research experience and demonstrated expertise in woody landscape plants.

Closing date: September 1, 1997

miw  
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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
June 30, 1997

The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.

## Announcements

The University is going to Electronic Billing on Tuesday, July 1, 1997. This means that when you fill out an air bill for Federal Express, you must (if you want to charge to a cuffs number) put your name and a CUFS # on the air bill, area- org. and a # sign - such as 333-3333#. If you want to charge to a grant, please see Marilyn or Judy first. You must also still give a copy of the Federal Express receipt to Marilyn or Judy.

A safety meeting will be held on Tuesday, July 1 on "Pesticide Rinsate and Sprayer Cleanup: What's Right & What's Wrong." Speakers will be Gary Elsner, Minnesota Department of Agriculture and Gordon Girtz, Environmental Health and Safety. The meeting will be held at 10:00 a.m. in the Agronomy Greenhouse Classroom. A hands-on portion will follow this in the Agricultural Pesticide Facility. All personnel who use the Agricultural Pesticide Facility are encouraged to attend.

You are invited to a reception honoring Dr. Neil Anderson for his services as Department Head in Plant Pathology, and a welcoming to Dr. Frank Pflieger as the new Department Head. The reception will be held on Wednesday, July 16 from 3:00-4:30 p.m. in the St. Paul Student Center, Minnesota Commons Room.

The University of Minnesota will be closed on Friday, July 4 for Independence Day.

## Field Days

July 1 - Morris (Alfalfa Management Field Day in association with MnVAP), 9:00-9:30 a.m. registration. Registration fee is \$5.00 and includes lunch and beverage.

July 10 - Morris Field Day (West Central Experiment Station).

## Greenhouse Users

**Reminder:** Monday, July 7 is a clean up/watering day.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

BIOWORKS, INC. (Geneva, NY)  
Sales Representative in Biological Fungicide Products. B.S. and agricultural background.

OREGON STATE UNIVERSITY  
Faculty Research Assistant, Department of Crop and Soil Science. B.S. or M.S. in weed science or related area, 100% research.  
Closing date: July 15, 1997

SF TECHNICAL SERVICES, INC. (Little Rock, AR)  
Director of R & D and Precision Agriculture. Ph.D. in agronomy with a good understanding of midsouth soils and crops.

UNIVERSITY OF WISCONSIN-EXTENSION  
Agriculture Assistant, Cooperative Extension. B.S. in a field of agriculture, relate effectively adults and youth, and strong interpersonal skills to work in a team setting.  
Closing date: July 7, 1997

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gAg&oa

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 7, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

There will be a faculty meeting on Monday, July 14 from 1:00-3:00 p.m. in 306 Borlaug Hall.

Environmental Health & Safety has a newly revised "Hazardous Chemical Waste Management" handbook available. All labs and interested individuals should obtain a copy. Order free from the University Storehouse, item #GS99973. All labs should obtain a copy.

Chemical Recycling is looking for a home for Pharmacia Sephedex QAE A-50 that has been received. Fifty kgms total worth ~\$50K...4 lots with multiple bottles/lots. I have talked with Pharmacia Tech Support and they recommend 10-year shelf life. Therefore, I have determined expiration dates on the various lots for you. They are, also, only sealed containers. So if you are interested, call Richard Brevic at 626-8197, or send a note to him at chemryc@maroon.tc.umn.edu. Here's the complete list:

1. Lot #QI 12355, 6 x 5 kgms, Exp. Date-2000
  2. Lot #QB 10971, 1 x 5 kgms, Exp. Date-2000
  3. Lot #OK 07772, 2 x 5 kgms, Exp. Date-1998
  4. Lot #PF 09096, 1 x 5 kgms, Exp. Date-1999
- Dee McManus  
Lab Services

## Greenhouse Users

Reminder: Today is a clean up/watering day. Fines will be double this month because I didn't issue them last month. You have a second chance and many of you needed it. If you are finished with the greenhouse space you were using, all pots should be dumped, cleaned and stored in the proper place. All greenhouses need to be swept. **DO NOT SWEEP SOIL, SAND OR PLANT MATERIAL UNDER THE BENCHES.** Some of you need to be concerned with weed control on the benches and in the pots. **THANKS FOR YOUR HELP!!!** Pamela Altermatt

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA  
Forest Products Advisor-Biomass, Division of Agriculture and Natural Resources. M.S. or Ph.D. in forestry, wood technology, agricultural engineering or environmental horticultural.  
Closing date: September 15, 1997

UNIVERSITY OF GUELPH  
Oilseed Breeder, Department of Crop Science. Ph.D. required, tenure-track, 60% research and 40% teaching.  
Closing date: September 30, 1997

Corn Breeder, Department of Crop Science. Ph.D. required, tenure-track, 85% research and 15% teaching.  
Closing date: September 30, 1997

UNIVERSITY OF ILLINOIS  
Extension Specialist, Certified Livestock Manager Program Facilitator, Agricultural Engineering Department. B.S. in animal sciences, crop sciences, or related field.  
Closing date: August 1, 1997

MICHIGAN STATE UNIVERSITY  
Two Extension Agriculture and Natural Resources Agents, Huron County. B.S. in a field related to field crop and general agriculture.  
Closing date: July 28, 1997

UNIVERSITY OF MINNESOTA  
Fellowship for graduate research in Germany, Graduate School Fellowship Office. Applicants must be U.S. or Canadian citizens who are registered in the University of Minnesota Graduate School.  
Closing date: September 26, 1997

TERME DI CARACALLA  
Plant Production Officer in Bangkok, Thailand. University degree in agriculture with post graduate training in industrial crop breeding, or agronomy. Training in Horticulture and limited knowledge of French.  
Closing date: 6/24/97

TRUMAN STATE UNIVERSITY  
Two Biology Teaching positions, at the Assistant Professor level, starting August 18, 1997. Both positions involve teaching genetics to sophomores and juniors.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 14, 1997

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## Announcements

Congratulations to Marilyn Hole and Lynn Swanson; Helene Murray and Rod Soderberg; and Salli Weston and Scott Theisen on their recent engagements.

Congratulations to Juerg Blumenthal, who recently accepted the position of Soil Fertility/Nutrient Management Specialist at Scottsbluff, Nebraska. Juerg received his Ph.D. under the guidance of Michael Russelle and Carroll Vance last August. He currently is serving as a research associate, working on several aspects of alfalfa's role in water quality protection. Constanza Montealegre Blumenthal has been offered a part-time, temporary position on the University of Nebraska faculty, so she can communicate with colleagues in the region and develop grant proposals. They plan to move to Nebraska in early October. Best wishes!

Attention Federal Express Users: If you are using a grant to Federal Express things – Please check with Judy or Marilyn to see if you have the correct object. Most grants do not have mailing on their budget.

A graduate student from Southern Illinois University, Anne Malan, is seeking housing for November and December, when she will be on our campus analyzing samples. Anne is conducting her thesis research at the Bordulac, North Dakota bioremediation site, where JoAnn Lamb, Carroll Vance, and Michael Russelle are assessing alfalfa's ability to remove nitrate from contaminated ground water. She would be happy to house sit for those two months, but also would be happy with a furnished apartment. Please contact Michael Russelle (5-8145, [russelle@soils.umn.edu](mailto:russelle@soils.umn.edu)) if you know of housing that will be available.

Some of you have been asking for our department web page address: Here it is:  
<http://www.agro.agri.umn.edu/>

## Grants Awarded

Craig Sheaffer, Steve Simmons, and Mary Brakke, Experiential Learning Activities for Education in Sustainable Agricultural Systems, \$122,732 – 09/15/96-08/31/98.

## Fall Branch Station Field Days

Lamberton – September 10.  
Waseca – September 11.

## GREENHOUSE USERS

I took advantage of the cool weather we had a couple of weeks ago to do some cleaning at NW. Those of you who were using that space in the spring, should have left it spotless. Most of you cleaned up behind yourselves. This space will not be available unless it is left spotless.

Most of you have done a great job in cleaning up your greenhouses!! Thanks.

Gopher Crops and Soils Club, unless you want a \$100.00 fine, you had better get down and clean up the greenhouse space and pots you were using. I was told you would get it cleaned up last week. You have until Wednesday.

Thanks for the cooperation!! Pamela Altermatt

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

CALIFORNIA LUTHERAN UNIVERSITY  
Grants Administrator, Science Outreach Program.  
B.A. or M.A. in a scientific field and grant-seeking experience.

UNIVERSITY OF GEORGIA  
Assistant Professor, Crop Physiology and Management, Department of Crop and Soil Science. Ph.D. in agronomy, crop science, or horticulture. Tenure-track, 60% research and 40% teaching.

Closing date: September 15, 1997

IOWA STATE UNIVERSITY

Postdoc in Alfalfa Mapping/Genetics, Agronomy Department. Project involves using molecular markers to study heterosis in alfalfa.

Closing date: August 1, 1997

KANSAS STATE UNIVERSITY

Professor/Head, Department of Agronomy, Crop, Range, Soil, Weed, and Water Sciences. Ph.D. in crop, soil, range, or weed science and demonstrated leadership and communication skills.

Closing date: August 1, 1997

UNIVERSITY OF KENTUCKY

Coordinator of Soil Testing, Department of Agronomy. Ph.D. in soil science or agronomy with emphasis in soil fertility or a related area. Laboratory experience essential.

Closing date: August 29, 1997

UNIVERSITY OF MINNESOTA

Director, Career Services Center, Carlson School of Management. M.S. degree in a related field, and have experience in recruiting students.

Closing date: July 11, 1997

Director of Communications, Department of External Affairs, Carlson School of Management. B.S. or M.S. and a demonstrated track record of designing and delivering high quality communications activities.

Closing date: July 14, 1997

PURDUE UNIVERSITY

Assistant/Associate Professor, Cropping Systems, Department of Agronomy. Ph.D. in agronomy, soil science, or ecology.

Closing date: November 10, 1997

Coordinator, Indiana's T-by-2000 Education Program, Department of Agronomy. B.S. and M.S. degrees in agricultural education, agricultural economics, agronomy or other agriculture-related field.

Closing date: September 15, 1997

TEXAS A&M UNIVERSITY

Assistant Professor, Agricultural Research and Extension Center at Vernon. Ph.D. in agronomy, crop science, or soil science.

Closing date: August 29, 1997

miw  
8/13/97

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 21, 1997

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## Announcements

**Reminder:** Everyone will be converted to Biweekly Payroll 9/1/97. If you are planning to request a loan from payroll, the forms are due today, July 21.

Hakima Bahri is visiting from Morocco and is looking for a house or an apartment to rent for two-three months starting as soon as possible. She would appreciate space for kids. Please call her at 481-8101.

The Minnesota Extension Service is now the "University of Minnesota Extension Service," in abbreviated format it is "Extension" (rather than UMES). Changes in letterhead, business cards, and other items that require the new word mark will be happening probably in the fall, but in the meantime staff will be using the new name in answering phones, in their writing, etc.

## Grant Awarded

Helene Murray and Deborah Allan (Department of Soil, Water & Climate), Sustainable Farming Systems. Legislative Commission on Minnesota Resources, \$560,000, July 1, 1997 - June 30, 1999.

## GREENHOUSE USERS

MONDAY, August 4th is a clean up/watering day. Most of you did a great job of cleaning up last month. Thanks!! Some of you still need to do some work.

I will be gone the week of August 11th. Everybody needs to do their own watering. If anyone is going to need large quantities of soil, please let me know. Pamela Altermatt

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF MINNESOTA

Associate to the Dean for Administration or Assistant Dean for Administration, College of Architecture and Landscape Architecture. B.A. or M.S., three years of experience in higher education administration, budgeting and accounting.

Closing date: July 24, 1997

Extension Educator, Crop Systems Specialization in Otter Tail County (Fergus Falls). M.S. in a crop-related major, or education with an emphasis on crops.

Closing date: August 1, 1997

### NORTH DAKOTA STATE UNIVERSITY

Assistant Professor, Hard Spring Wheat Breeding, Department of Plant Sciences. Ph.D. in plant science emphasizing plant breeding, pest resistance, molecular genetics and statistical analyses. Tenure-track, 90% research and 10% teaching.

Closing date: August 1, 1997

Three positions in Weed Science, Genetics, Biology and Physiology, Department of Plant Sciences. (1) Plant Scientist to conduct basic genetics, physiology, and biological research on weeds. Ph.D. in genetics and plant breeding; (2) Weed Scientist to conduct field research on weed control systems in progress and field and greenhouse research. Ph.D. in weed science, crop production, plant ecology and biology; (3) Weed physiologist-ecologist to conduct research to determine the mode of weed resistance to herbicides and physiological fitness of herbicide-resistant weeds. Closing date: August 15, 1997

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of Ag Row

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
July 28, 1997

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## Announcements

Federal Express Users: CUFS numbers should be followed by the # sign on all federal express bills.

Judy Slyter

The North Central Region Sustainable Agriculture Research and Education Office would like to announce the availability of the following grant applications for our research and education grant program: 1) 1998 Call for Preproposals. Deadline is September 12, 1997; 2) 1998 Call for Proposals on Innovative Marketing Strategies. Deadline is January 23, 1998. To obtain a copy of the applications, please call 402-472-7081, e-mail sare001@unlvm.unl.edu, or fax 402-472-0280.

## Greenhouse Users

Next Monday, August 4th is a clean up/watering day.

I will be gone the week of August 11th. Everybody needs to do their own watering.

Pamela Altermatt

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### ALCORN STATE UNIVERSITY

Assistant or Associate Professor, Department of Agriculture. Ph.D. in horticulture or plant sciences with specialization in plant breeding.

Closing date: August 15, 1997

### UNIVERSITY OF GEORGIA

Assistant/Associate Professor, Crop and Soil Sciences Department. Ph.D. in weed science, agronomy, crop science or related field with emphasis on weed management or herbicide chemistry.

Closing date: September 17, 1997

### MICHIGAN STATE UNIVERSITY

Extension Integrated Pest Management (Field Crops)/Groundwater Stewardship Agent. B.A. or M.S. in IPM, agriculture, agronomy, water quality, or related field.

Closing date: August 1, 1997

### UNIVERSITY OF MINNESOTA

Extension Educator, Minnesota Extension Service. M.S. in a crop-related major, or in an education, technology or business major with an emphasis on crops is required.

Closing date: August 1, 1997

Director of Management Information Services, Office of the Vice President for Research and Dean of the Graduate School. B.A. and a minimum of three years experience.

Closing date: August 15, 1997

### UNIVERSITY OF NEBRASKA-LINCOLN

Research Associate, Department of Agronomy. Two non-tenure positions, available for 12-months beginning on or about 1 September 1997. Ph.D. in agronomy or any biological science field. Experience in molecular genetics is required, and specific expertise in gene mapping and cloning is highly desirable.

Closing date: August 20, 1997

### SOUTH DAKOTA STATE UNIVERSITY

Extension Agent, Agriculture. B.A. or M.S. in animal and range science, plant science or agronomy.

Closing date: August 1, 1997



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 4, 1997

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## Announcements

Jim Stage has been diagnosed with lung cancer. He is receiving chemotherapy at the University of Minnesota Hospital. The department has sent flowers.

The Annual Corn Feed will be held on Thursday, August 7 at 12:00 noon in 306 Borlaug Hall. Hot dogs, cucumbers, tomatoes, coffee, lemonade and all the corn you can eat. Price is \$3.00. Pass the word to all Agronomy Personnel. Please bring donated cucumbers and tomatoes on Wednesday to 302 Borlaug Hall.

The 1997-98 St. Paul White and Yellow Pages will be delivered on Tuesday, August 19 to 411 Borlaug Hall. One new phone book will be left for every old phone book left for recycling. U.S. West has a new online White and Yellow page address: <http://usw.four11.com>.

A retired agronomy staff member and his wife are in need of temporary housing in the Twin Cities. Housing is needed immediately and would extend to about four to six months. A "house-sitting" situation or sublease apartment would be ideal. They have no pets and do not smoke. If you know of anything, please contact Sandy at 625-8148. Thank you.

## Greenhouse Users

REMINDER: Today is a greenhouse clean up/watering day!!

REMINDER: I will be gone next week. Everyone needs to do their own watering.

Thanks for your help and cooperation.

Pamela Altermatt

## Network News

I would like to thank the projects and investigators that have donated funds for the purchase of a slide scanner and CD-ROM maker for the computer lab. In addition to these new items we also now have 11 computers and two zip drives in the room. This room and equipment is freely available to faculty, staff, and graduate students at all hours. We are now looking to purchase a flatbed scanner (\$600) and a high quality large paper sheet color printer (\$800) for the computer lab to help with posters and presentations. If there are projects or investigators that would be interested in helping acquiring these by contributing towards their purchase, please let me know. Thanks! Dean (625-2721)

## Reminders

(1) Since harvest has started the demand for dryer space has intensified. Dryers in the Crops Service Building and Seedhouse will be checked often. The seven day drying time limited will be enforced. Samples in any longer than seven days, will be thrown out unless other arrangements are made with Mike McClellan or Andy Scobbie.

(2) All outside doors around the Crops Service Building must be closed and locked after 5:00 P.M. If you are not sure you will be the last one in the building to leave and it's after 5:00, close and lock all entry doors and overhead garage doors anyway.

(3) Only Project Vehicles, Federal Vehicles and Personal Vehicles used for project work can use the driveways around Crop Service for loading and unloading equipment and samples. Any other vehicles will be tagged or towed if any of these driveways are blocked.

DO NOT PARK vehicles or equipment in front of the walk-in dryer doors. This area is for loading and unloading samples only, NOT FOR PARKING.

For any questions, please call Mike McClellan at 4-5395 or Andy Scobbie at 5-2712.

**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

**ASGROW SEED COMPANY**

Research Assistant in Janesville, WI. B.S. in plant science, or the equivalent experience in seed and crop production. A farm background and experience in seed production, plant breeding, and operation of farm machinery.

**LOUISIANA STATE UNIVERSITY**

Assistant Professor, Department of Experimental Statistics. Ph.D. with strong background and interest in applied statistics, quantitative genetics and statistical consulting are required.

Closing date: September 1, 1997

**UNIVERSITY OF MINNESOTA**

Research Fellow/Associate, Office of the Associate Vice President for Academic Affairs, Disability Services. M.S. or Ph.D. in social sciences or related area.

Closing date: August 8, 1997

Extension Educator, Extension Service. M.S. in agriculture, course work in field crops, farm management/marketing and educational methods is preferred.

Closing date: September 11, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 11, 1997

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## Announcements

There will be a faculty meeting today at 1:00 p.m. in 306 Borlaug Hall.

Attn: Federal Express Users: DO NOT use grants for mailing Federal Express packages without checking with Judy of Marilyn first.

The 1997-98 St. Paul White and Yellow Pages will be delivered on Tuesday, August 19 to 411 Borlaug Hall. One new phone book will be left for every old phone book left for recycling.

The Minnesota State Fairs starts on August 21 and ends on Labor Day. The Fair will use parking lots 108 and 104, from August 15 to September 11. Lot 103 on Gortner and Fitch can be used for car pool parking for \$1.00 until 2:00 p.m. Lot 101 on Commonwealth and Cleveland and Lot 102 on Gortner and Buford can be used for faculty, staff and students for daily parking. There will be a connector bus at the Buckeye Lot located on the Minneapolis East Bank north of the Huron Boulevard Parking Complex for transportation to the St. Paul Campus Student Center. You must have a University I.D. to use these lots.

## Reminders

Please see Jean Swanson or myself if you want to join us on the End of Summer Tour on August 19-21 to Fargo and surrounding areas. I would like to have a final list to give to the motels by Wednesday, August 13. Looking forward to you joining us. Deon Stuthman

Today, Monday, August 11 has been proclaimed U of M cleanup day by President Yudof.

There will be a rally today at Coffman Union. Evidently, President Yudof thinks there is room for improvement when it comes to neatness of both Campuses.

Since we are a public institution we should look as clean and neat as possible

I'm using this as a reminder to all faculty, staff, and students that all Agronomy space, which includes greenhouses, growth chambers, coolers, freezers, labs, field roads, field plots, storage areas,

Crop Service, and the Seedhouse needs constant attention to be kept as neat and clean as possible.

We have to keep all our areas maintained as best we can for safety, pest and appearance reasons.

We do not want visitors to think we are slob! Mike McClellan 4-5395

## Greenhouse Users

REMINDER: I AM GONE THIS WEEK!!! EVERYONE NEEDS TO DO THEIR OWN WATERING!!!

Not many of you remembered on our clean up/watering day. Forgetting for a week could be detrimental to your experiments.

GREENHOUSE HONOR ROLL: The Soybean Project did an outstanding job of cleaning up their greenhouse space. They were in the greenhouse with a shop vac and bleach. Please feel free to check it out--370A5. The Alfalfa Project in 370A2 has also done a wonderful job of cleaning up. The Projects in 370A4 have also done a great job of cleaning up. All of these houses are completely empty now, but with a little effort all of our greenhouses should be able to maintain a certain amount of this cleanliness. As Dr. Richard Lindquist from Ohio State noted, "the greenhouses should be kitchen clean." How many of you can say that about your greenhouses?

The soil carts were all filled before I left so hopefully there will be enough to get everyone through the week. See Mike if you run out.

SMALL GRAINS PROJECTS: Please remember we only have so much soil and you can't all have it at the same time. Please let me know how much and when you are going to need it.

Pamela Altermatt

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF ARKANSAS

Assistant Professor, Department of Agronomy.  
Ph.D. in weed science or related discipline with a  
strong background in plant physiology and  
biochemical aspects of herbicide activities and their  
genetic regulation. Tenure-track,  
research/teaching position.

Closing date: November 15, 1997

AUBURN UNIVERSITY

Assistant Professor, Department of Agronomy &  
Soils. Ph.D. in soil science with specialization and  
experience in soil classification, clay mineralogy,  
soil survey and mapping, and laboratory  
characterization of soils.

Closing date: October 15, 1997

GREAT PLAINS RESEARCH (Cary, NC)

Promotion and sales position for a company  
specializing in the breeding of improved alfalfa  
varieties. B.S. in marketing, business management  
or agronomy.

IOWA STATE UNIVERSITY

Assistant or Associate Professor, Extension Soil  
Fertility and Nutrient Management Specialist,  
Department of Agronomy. Ph.D. in soil science  
with emphasis in soil fertility and nutrient  
management. Preferred Post Ph.D. experience.

Closing date: November 10, 1997

Lab Assistant, Department of Agronomy. B.S. or  
M.S. in soil science or related major. Strong  
written and verbal communication skills are  
required.

Closing date: August 18, 1997

UNIVERSITY OF NEBRASKA

Research Associate, Department of Agronomy,  
Crop, Range, Soil & Water. Ph.D. in botany, plant  
science, or weed ecology. Non-tenure position,  
available for a period of two years beginning in  
December 1997.

Closing date: November 7, 1997

miw  
3/19/97

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 18, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Sympathy

Donald U. Harvey, a long time employee in the Department of Agronomy & Plant Genetics died Thursday, August 14. He would have been 102 years old on September 25.

Mr. Harvey graduated from the School of Agriculture in 1917 and began working under Professor Army soon after that. We know he was in the department before 1923.

For many years he was Professor Army's right-hand man and was a plot supervisor for the entire department until retirement in 1963.

There will a memorial service for Mr. Harvey on 9:30 a.m. on Monday, August 25 in the Chapel at Presbyterian Homes, 3220 Lake Johanna Boulevard, Arden Hills. Laddie Elling

## Thank you

Thank you for the plant you sent me while I was in the hospital. Jim Stage

Thank you to Jayanti Suresh, Suzanne Livingston, Jacob Eta-Ndu, Oscar Riera-Lizerazu, Isabel Vales, Nickie Hutchison, Nate Owens, John McLaughlin, Bob Peterson and the office staff for all the work they did for the corn feed. Also, thank you to Roger Meissner from Horticulture for providing the cooking facilities.

## Announcements

Congratulations to Holly Tillis-Byland and Bill Byland on their new baby girl. Michaela Christine was born on Friday, August 15 at 4:30 p.m. She weighed 7 lbs. 4 oz. 21" long. Parents and baby are home and doing fine.

A Civil Service meeting will be held on Tuesday, August 19 in 306 Borlaug Hall at 9:30 a.m. Discussion topics will be the Departmental Retreat scheduled for Tuesday, September 16 and Compensation. Coffee and Donuts will be served.

If any faculty member would like a copy of the new AFSCME contract that has just been settled, please contact Art Killam at 4-2205. He is a steward for AFSCME and has copies available.

A farewell reception will be held for Laurie Hayes on Wednesday, August 27 from 3:00-4:30 p.m. at the Vocational & Technical Education Building in the Atrium, St. Paul Campus.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### KANSAS STATE UNIVERSITY

Graduate Research Assistant, Soil Fertility. B.S. or M.S. in soil science, agronomy, or closely related discipline.

Closing date: January 1998

### UNIVERSITY OF MINNESOTA

Research Associate, Department of Forest Resources. Work will involve developing silvicultural strategies for renovating field windbreaks and then estimating the costs and benefits of the renovation.

Associate Director, James Ford Bell Museum of Natural History. M.S. and experience in marketing developing and new building construction.

Closing date: August 29, 1997

### UNIVERSITY OF TENNESSEE

Specialist, Department of Plant and Soil Science. Ph.D. in agronomy or horticulture with emphasis in weed science. Strong written and oral communication skills.

Closing date: September 22, 1997

### WASHINGTON STATE UNIVERSITY

Research Plant Molecular Geneticist, USDA-ARS. Ph.D. in genetics.

Closing date: August 25, 1997

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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 25, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

If you are getting a cellular phone, please stop by to see Marilyn or Judy to give them your telephone company name, your phone number and account number, so a blanket requisition can be set up to pay this. Thank you.

A farewell reception will be held for Laurie Hayes on Wednesday, August 27 from 3:00-4:30 p.m. at the Vocational & Technical Education Building in the Atrium, St. Paul Campus.

## Greenhouse Users

I will be gone Wednesday, September 3rd. Everyone needs to do their own watering.

Following are some notes from Canada on greenhouse cleanliness. We are not the only ones trying to keep the greenhouses clean.

"While experiments are in progress, the researcher is responsible for keeping the room clean and tidy. We monitor this closely, alert the researcher if a messy situation develops and request them to clean up. If this isn't done, we will do it and bill them. We try to foster a community effort... We don't have the staff to assume researcher's cleaning responsibilities." Claire Cooney, McGill University Phytotron, Montreal, Quebec

"Each researcher is required to sweep up under their benches, keep the bench tops clean of soil and plant debris and their plant material weed free and healthy. This is required at all times. If they ignore this then I leave a notice and give them three days to do so after which I charge \$10 a day until it's done. If it gets out of hand then I do it myself and charge my time." Denis Nobert, Macdonald Campus of McGill University, Ste. Anne-de-Bellevue, Quebec

Pamela K. Altermatt

## Special Seminars

During the next two weeks we will have two distinguished Australian colleagues visiting the department, Mark Cooper and Ian DeLacy. Both have been here before and many of you may know one or both. Each has agreed to give a seminar.

Ian DeLacy, An ISWYN story - Has the change in germplasm changed the relationship among environments for yield testing spring bread wheat?, Thursday, August 28 at 8:30 a.m., 306 Borlaug Hall.

Mark Cooper, Genotype-by-environment interactions, selection response and heterosis, Thursday, September 4, 8:30 a.m., 306 Borlaug Hall.

Each will be available for a short time before and after the seminar for individual/group visits. Please see me or Jean Swanson for details and appointments. Deon Stuthman

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### COLORADO STATE UNIVERSITY

Manager, Colorado Seed Growers Association, Department of Soil and Crop Sciences. B.S. or M.S. in crop science. Experience with seed production, seed multiplication or seed technology required.

Closing date: November 1, 1997

### UNIVERSITY OF ILLINOIS

Assistant Professor of Vegetable and Fruit Crop Pathology, Department of Crop Sciences. Ph.D. in plant pathology or a related area is required.

Closing date: November 15, 1997

### NORTH CAROLINA STATE UNIVERSITY

Dean, College of Agriculture and Life Sciences and Executive Director of Agricultural Programs. Ph.D., a record of distinguished scholarly achievements, administrative experience, leadership and collaborative interaction.

Closing date: September 15, 1997

### PURDUE UNIVERSITY

Director, Purdue Crop Diagnostic Training and Research Center, Department of Agronomy. Ph.D. in agronomy, entomology, plant pathology or weed science.

Closing date: September 30, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
August 29, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

The University of Minnesota will be closed on Monday, September 1 for Labor Day.

**Reminder:** Preregistration for the 1997 ASA meetings are due Friday, September 12 for reduced registration fee rates.

The University Stores Open House will be held on Tuesday, September 9 from 10:00 a.m. to 3:00 p.m. at the Radisson Hotel Metrodome in Minneapolis. Lunch will be served from 11:30 a.m. to 1:00 p.m. This annual event will showcase many new products from vendors and University Departments. Everyone is welcome to attend.

Lamberton Field Day – Wednesday, September 10;  
Corn and Soybean Field Day - Thursday,  
September 11 at the Southern Experiment Station  
in Waseca.

The Departmental Retreat will be held on Tuesday, September 16 at the Holiday Inn on County Road E and Lexington in Arden Hills. Please let Jeanne Davy know by today if you will be attending the retreat by returning the form that was placed in your mailbox or e-mail a message to davyx001@maroon.tc.umn.edu.

## Grants Available

The Minnesota Department of Agriculture (MDA) is now accepting applications for grants from Minnesota farmers, researchers and educators who have innovative ideas for sustainable farming systems. The MDA's Sustainable Agriculture Program has \$210,000 to award to grant projects during this fiscal year. Funding up to \$25,000 is available for three-year projects that benefit the environment, increase farm net projects and improve farm family quality of life. Applications are available now and completed applications must be received at MDA by 4:30 p.m. on Monday, December 15. Applications and more information are available from the Minnesota Department of Agriculture by contacting Wayne Monsen, Grant and Loan Program Coordinator, Sustainable Agriculture Program, MDA, 90 W. Plato Blvd., St. Paul, MN 55107, 612-282-2261.

The Consortium for Plant Biotechnology Research, Inc. (CPBR) announces 1998 Competitions Requests for Energy from Biomass and Electric Power from Biomass. Preproposals are requested for plant biotechnology research that will develop and improve alternative renewable energy sources, such as liquid transportation fuels and electric power from biomass. Preproposals are due September 30, 1997. See Jeanne for details.

## Greenhouse Users

I will be gone Wednesday, September 3. Everybody needs to do their own watering.

MONDAY, SEPTEMBER 8 IS A CLEAN UP/WATERING DAY. Thanks.

Pamela K. Altermatt

## Special Seminar

Mark Cooper, Genotype by environment interactions, selection response and heterosis, Thursday, September 4, 8:30 a.m., 306 Borlaug Hall.

## Position Announcement

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF NEBRASKA-LINCOLN  
Director, Northeast Research and Extension  
Center. Ph.D. in agriculture, natural resources,  
family and consumer sciences, adult education or  
other related areas.

Closing date: October 15, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

September 2, 1997

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Notice: There are some defective MSI (Midwest Scientific Inc) 0.6 ml microfuge tubes (Stores # CX15576) that are in circulation. The tubes leak. According to the manufacturer, they were made on a defective mold that resulted in pinhole leaks in the tubes. You may not have noticed the leak, but you will if you microfuge the tube. This will result in contaminated microfuges, an extra problem if your samples are radioactive. The defective tubes are in the Quality Control (QC) number range of 7071A2413-04 through 7219A2413-04. So check for QC numbers that start with numbers in the range 7071 through 7219. If you have any of these tubes, you can return them to Stores (call Steve Keeney at 5-2508). If you have any questions about this, Steve can also help you since he has talked to the manufacturer twice. Thanks.  
Jane Ann Phillips, Coordinator of Instructional Laboratories

## Special Events

Sept. 10  
Fall Branch Station Field Day, Lamberton  
Sept. 11  
Corn and Soybean Field Day, Waseca

## Special Seminar

"Genotype-by-environment interactions, selection response and heterosis," Mark Cooper, Australia, Thursday, September 4, 8:30 a.m., 306 Borlaug Hall.

Mark will be available for a short time before and after the seminar for individual/group visits. Please see me or Jean Swanson for details and appointments. Deon Stuthmán

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### PURDUE UNIVERSITY

Soybean Breeding and Genetics, Professional, Non-Tenured Position. Ph.D. in plant breeding and genetics.

Closing date: November 10, 1997

### MONTANA STATE UNIVERSITY

Research Associate in Small Grain Quality, Plant, Soil and Environmental Sciences Department. M.S. in horticulture, crop and soil science, plant breeding or related field.

Screening begins: September 15, 1997

### USDA-ARS

Research Associate Program, Plant Physiologist/Geneticist/Conservation Biologist GS-11 located at the National Seed Storage Laboratory in Fort Collins, Colorado. Ph.D.

### UNIVERSITY OF MINNESOTA

Program Coordinator with Families That Work, Office of Outreach, College of Human Ecology. M.S. degree.

Closing date: September 12, 1997

### PROFESSIONALS WANTED

International Composting Association needs ethical, professional, men and women with vision, drive, and the desire to use their talents, knowledge, skills, and experience to serve their community, region, and industry in planning for the first meeting of the South Eastern Region.



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
September 9, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

Thanks to those who worked at the State Fair. They played a key role in advertising the availability of Variety Trial data electronically.  
Deon Stuthman

Emily van de Mortel  
Emily Pullins  
Cristine Handel  
Russel Rasmussen  
Lynn Litterer  
Clara Pritsch  
Paula Olhoft  
Claudia Castel  
Joann Mudge  
Ana Maria Procopiuk

A special all-day departmental retreat will be held on Tuesday, September 16 at the Holiday Inn in Arden Hills. If you haven't signed up yet, please let Jeanne Davy know by tomorrow. Thanks.

Fred Bergsrud will be retiring from the Department of Biosystems and Agricultural Engineering and the Extension Service on October 3, 1997 after almost 30 years of dedicated service. A retirement reception will be held on Thursday, September 25 from 3:00-5:00 p.m. at the Earle Brown Center, Shingle Creek Room. A retirement dinner will be held on that evening at Lido's Café starting with a reception at 6:15 p.m. and dinner at 7:00 p.m. Reservations are due by Monday, September 22. Vancy Morey, Department of Biosystems will be collecting letters of well wishes. For any questions, please call Kathy Younie at 625-7733.

We are looking for a diode array spectrophotometer on the St. Paul Campus to use to collect some preliminary data using a hemoglobin trapping technique with microdialysis. Any leads would be appreciated. Contact Lori or Mary at 4-4994, Veterinary Pathobiology

## Greenhouse Users

YESTERDAY was the first Monday of the month. This is a clean up/watering day. Everybody should have checked their greenhouses.

**DON'T FORGET:** When you move plant material, pots, soil, etc., you are responsible for cleaning up behind yourself. In most of our houses you have to move your materials through other project's space. I am going to start issuing fines for this lack of courtesy to the other greenhouse users.

**REMINDER:** Plant Material and soil gets dumped outside the greenhouses in designated areas. If you have any questions about this, please ask. Any other trash-pots, labels, paper, etc., that you generate should be discarded in the head house trash cans or directly in the dumpster. There is no greenhouse janitorial service. Thanks for your help!  
Pamela K. Altermatt

## Special Seminar

The Use of Glufosinate as a Selective Agent for Agrobacterium-Mediated Transformation of Soybean. Dr. Z. Zhang, Center for Biotechnology, University of Nebraska-Lincoln. The seminar will be held on Monday, September 15 at 12:00 noon in 306 Borlaug Hall. Dr. Zhang's group at Nebraska has successfully developed a genetic-engineering technique for making basta resistance soybeans. He will visit our soybean transformation group from September 12-16. R.I. Khan

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### INCO-DC PROGRAM

European Post and Research Assistantship. The European Commission is sponsoring a three year research program on coastal and inland dune systems in southern African. The project will examine the impact of invasive grass species on the structure systems in southern Africa. Ph.D., M.S. or B.S. students.

Closing date: October 1997

### KANSAS STATE UNIVERSITY

Assistant Professor, Soil Chemistry, Department of Agronomy, Crop, Soil, and Range Sciences. Ph.D. in soil science with an emphasis in soil chemistry. Tenure-track, 12-month appointment, 70% research and 30% teaching.

Closing date: November 10, 1997

Assistant Scientist, Department of Agronomy,  
Crop, Soil, and Range Sciences. B.S. or M.S. in  
agronomy, genetics, or plant breeding.

Closing date: October 10, 1997

Graduate Research Assistantship, Department of  
Agronomy, Crop, Soil, and Range Sciences. M.S.  
in weed science, plant breeding, genetics,  
agronomy, or a closely related discipline.

Closing date: January 15, 1998

UNIVERSITY OF NEBRASKA-LINCOLN  
Integrated Weed Management Specialist (Assistant  
Professor), Department of Agronomy, Crop,  
Range, Soil & Water. Ph.D. in weed science or  
agronomy. Tenure-leading, 12-month  
appointment, 50% research and 50% extension.

Closing date: January 15, 1998

Postdoctoral Associate - Population Ecologist,  
Department of Agronomy, Crop, Range, Soil &  
Water. Ph.D. in range science, agronomy, or  
related discipline. Non-tenure, 40% teaching and  
60% research position.

Closing date: November 15, 1997

#### OHIO STATE UNIVERSITY

Postdoctoral in gravitational biology, Department  
of Plant Biology. The work will involve preparing  
and analyzing an experiment that will fly on a  
NASA Space Shuttle.

#### OREGON STATE UNIVERSITY

Faculty Research Assistant, Columbia Basin  
Agricultural Research Center. B.S. or M.S. in  
agronomy or closely related field.

Closing date: November 1, 1997

#### SUSTAINABLE AGRICULTURE COALITION

Policy Associate to represent the Coalition in its  
dealings with federal policy and opinion makers.  
Applicants should have knowledge of and  
commitment to family farming and a sustainable  
food and agriculture systems, strong background  
in federal agriculture and environmental policy.

Closing date: October 31, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
September 22, 1997

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## Announcements

The University will be offering a new University-wide employee orientation program beginning in October. This program will provide all new employees - faculty, professional and administrative, civil service, and bargaining unit staff -- with a one-stop source of valuable information. All new faculty and staff should attend a new employee orientation session within three months of starting their work at the University.

The first part of the orientation will consist of a series of presentations to help new faculty and staff learn more about University policies and benefit programs. The second part will feature a mini information fair with representatives from University departments and organizations that offer services to employees. An invitation to the orientation will be included in each new employee's benefits packet.

The orientation will be held during the second week of each month from 8:30 a.m. to 11:00 a.m. in Rooms 210-215 and 317-318 of the Donhowe Building. A special shuttle bus service will be provided to help alleviate any transportation or parking problems.

**U Save Discount Program:** A variety of merchants in and around the Twin Cities offer discounts to University employees. Discount tickets are available for Camp Snoopy, St. Paul Chamber Orchestra, ValleyFair, General Cinema, UA Theatres, and many more. The website for this program is: <http://www.coffman.umn.edu>.

Dave Somers is looking for a roommate for the ASA meetings. Please call him at 5-5769.

A boom box was found near 335 Borlaug Hall on Friday, September 19. If this is yours, please check in 411 Borlaug Hall to claim it.

## Greenhouse Users

I will be gone Thursday and Friday, September 25<sup>th</sup> and 26<sup>th</sup>. Everybody needs to do their own watering.

CLEAN UP/watering day Monday, October 6<sup>th</sup>.  
Thanks. Pamela Altermatt

**Friday's Noon - Hour Brown Bag Discussions**  
Dr. Ronald Phillips, Congressional Thrust for Plant Genome Work, Friday, September 26 in 306 Borlaug Hall at 12:00 noon.

Thanks to those who volunteered to lead a Brown Bag Discussion. However, we still have some open Friday's (October 10 and October 17) for the fall quarter and most of the Friday's for the winter quarter. If anyone would be willing to lead a Brown Bag Discussion, please contact Vincent Robert (mailbox 21). Thanks.

## Seminars

September 26 **Ph.D. Thesis Defense**, Jonathan M. Shaver, Molecular analysis of transgenic maize modified for increased lysine biosynthesis, 10:00 a.m., 408 Hayes Hall.

September 29 **Plant Breeding**, Luis Federizzi, Oat genetics and breeding in South Brazil, 3:30 p.m., 306 Borlaug Hall.

October 8 **College of Biological Sciences**, James Hogle, Springing the trap: A model for poliovirus cell entry, 4:00 p.m., 335 Borlaug Hall.

October 9 **MacArthur Distinguished Speaker Series**, Vandana Shiva, Sustainability in a period of globalization, 3:30 p.m., St. Paul Student Center Theatre.

**Position Announcements  
(Posted in notebook in 411 Borlaug Hall)**

**Job Information:**

The Job Seeker specializes in natural resources and environmental vacancies nationwide, including job titles, locations, duties, filing dates, addresses, salaries, qualifications, application procedures, contact persons and phone numbers. Website is <http://www.tomah.com/jobseeker>.

**ABS GLOBAL INC.**

Animal Product Marketing Specialist. B.S in agribusiness and a minimum of three-five years demonstrated sales/marketing experience.

**UNIVERSITY OF CALIFORNIA**

Cooperative Extension Farm Advisor-Agronomy; and Superintendent-Shafter Research. M.S. in plant science, experience in farming, farm management or supervision of agricultural research.

Closing date: December 15, 1997

**CALIFORNIA LUTHERN UNIVERSITY**

Fletcher Jones Chair in Biology. The University is seeking applicants in the field of developmental biology with strengths in genetics, biochemistry, molecular biology or cell biology.

Closing date: December 1, 1997

**CARE (Bangladesh)**

Research and Dissemination Advisor. M.S. or Ph.D. in agricultural sciences with a specialty in tropical rice, horticulture or aquaculture desired. Five to seven years experience.

**COLORADO STATE UNIVERSITY**

Manager/Research Associate, Agricultural Experiment Station. A.M.S. degree in plant sciences with experience in greenhouse management.

Closing date: October 17, 1997

**UNIVERSITY OF MINNESOTA**

Research Associates, Molecular Genetics/Protein Biochemistry, College of Natural Resources, Department of Wood & Paper Science. Ph.D. in molecular biology or biochemistry. Twelve-month, full time initial appointment subject to annual renewal for a total of three years.

Closing date: September 22, 1997

**UNIVERSITY OF NEBRASKA, LINCOLN**

Research Technologist I, Department of Agronomy, Crop, Range, Soil & Water, Weed Sciences. B.S. in agronomy or related field plus one year field experience research. Ability to operate and maintain mechanical equipment.

Closing date: September 26, 1997

**NORTH CAROLINA STATE UNIVERSITY**

Research Associate, Animal & Poultry Waste Management Center. Ph.D. in biological or environmental science discipline with experience in food-animal agriculture and waste management.

Closing date: October 15, 1997

**NORTH DAKOTA STATE UNIVERSITY**

Assistant Experiment Station Specialist (Agronomist), Carrington Research Extension Center. Ph.D. in agronomy or closely related field with experience in production agriculture research.

Closing date: November 10, 1997

**RUTGERS UNIVERSITY/COOK COLLEGE**

Executive Director, IR-4 Project. Non-tenured grant funded administrative position. Ph.D. in chemistry, entomology, plant pathology, weed science or related biological disciplines plus ten years experience in pest management or pesticide research/development.

Closing date: December 31, 1997

**TEXAS AGRICULTURAL EXPERIMENT STATION**

Assistant Professor (Corn Breeder), Agricultural Research and Extension Center. Ph.D. in plant breeding or genetics, experience in plant breeding and agronomic research, corn germplasm and marker assisted selections.

Closing date: October 15, 1997

**TRUMAN STATE UNIVERSITY**

Assistant or Associate Professor, Plant Cell Biologist/Plant Physiologist, Division of Science. Ph.D. and research background in cell biology or physiology.

Closing date: October 6, 1997

Assistant or Associate Professor, Animal Physiologist, Division of Science. Ph.D. and research interest in electrophysiology.

Closing date: October 6, 1997

# Agronomy Gleanings

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September 29, 1997

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## Announcements

The Gopher Crops & Soils Club will hold their annual hot dog feed on Wednesday, October 1 at 5:30 p.m. on the third floor balcony of Borlaug. Come and meet the new and returning undergraduates. All faculty, staff and students are invited.

With the start of fall quarter, there are several students looking for part-time employment. Any projects having openings should contact Vern Cardwell, Lee Hardman or Steve Simmons.

Every Friday during the school year is Maroon and Gold Friday. Show your spirit and pride in the U by wearing maroon and gold apparel.

New and replacement U Cards are now available at the St. Paul Gym. Bring a photo ID and be prepared to have your picture taken. Check the bulletin board for hours. U Card questions or comments may be e-mailed to: [ucard@tc.umn.edu](mailto:ucard@tc.umn.edu).

**Campus Kickoff Days – St. Paul Campus**  
Tuesday, September 30 - Activities Fair from 10:00 a.m. to 1:00 p.m. at the St. Paul Student Center.

Wednesday, October 1 - Join fellow faculty, staff and students for a free lunch at the annual lunch with leaders picnic between 11:15 a.m. and 2:00 p.m. at the St. Paul Student Center Terrace.

## Helpful e-mail addresses/websites

Internet/E-mail account management/validation  
<http://www.umn.edu/validate>

E-mail help: <http://www.umn.edu/cc>  
LUMINA (Library): <http://www.lib.umn.edu>  
Via Telnet/TN3270: [admin.ais.umn.edu](telnet://admin.ais.umn.edu)  
UM Bookstores: <http://www.bookstore.umn.edu>  
Training Library, ADCS Short Courses:  
<http://training.micro.umn.edu/>  
ADCS helpline: <http://www.umn.edu/adcs/>

## Request for Grant Proposals

North Central Region Pesticide Impact Assessment Program. Deadline: December 5, 1997

Graduate School: Grants-in-Aid. Deadline: October 6, 1997. Contact Jeanne for any questions.

## Friday's Noon – Brown Bag Discussions

Dr. Mohamed Oussible, Cereal production in Morocco: History and the world free market, Friday, October 3 at 12:00 noon in 306 Borlaug Hall.

## NSF Graduate Research and Minority Graduate Fellowships 1998

The National Science Foundation will award approximately 1,000 new Graduate Research Fellowships and Minority Graduate Fellowships to support graduate study in science, mathematics and engineering. The NSF contracts with Oak Ridge Associated Universities (ORAU) to provide the support services for this prestigious fellowship program. Fellowships are awarded for graduate study leading to research-based master's or doctoral degrees supported by the NSF. Applicants must be citizens, nationals, or permanent resident aliens of the U.S. at the time of application. For more information, contact NSF Graduate Research Fellowship Program, Oak Ridge Associated Universities, P.O. Box 3010, Oak Ridge, TN 37831-3010; 423-241-4300; Internet Mail: [nsfgrfp@orau.gov](mailto:nsfgrfp@orau.gov). Applications are also available at the Graduate School Fellowship Office, 321 Johnston Hall, Minneapolis Campus. Deadline for entering the competition is November 6, 1997.

### Seminars

- September 29 Plant Breeding, Luis Federizzi,  
Oat genetics and breeding in  
South Brazil, 3:30 p.m., 306  
Borlaug Hall.
- September 30 Plant Biological Sciences  
Colloquium, Ralph Quatrano, Cell  
polarity and the orientation of cell  
division in plants: The role of  
cytoskeleton and cell wall, 11:00  
a.m., Earle Brown Center.
- October 1 Computer Series, Dean Flanders,  
Fundamentals of web site  
building, 12:10 p.m., 365 Borlaug  
Hall. Bring your lunch and  
questions.
- October 2 Fifth Annual Kuehnast Lecture,  
Elisabeth A. Holland, Global  
nitrogen cycling: Acceleration and  
consequences, 3:45 p.m., 335  
Borlaug Hall.
- October 8 College of Biological Sciences,  
James Hogle, Springing the trap:  
A model for poliovirus cell entry,  
4:00 p.m., 335 Borlaug Hall.
- October 9 MacArthur Distinguished  
Speaker Series, Vandana Shiva,  
Sustainability in a period of  
globalization, 3:30 p.m., St. Paul  
Student Center Theatre.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

GUSTAVUS ADOLPHUS COLLEGE  
Assistant Professor/Physiologist Plant Ecologist.  
Ph.D. and demonstrated teaching ability and  
postdoctoral research experience are desirable.  
Tenure-track.

Closing date: November 15, 1997

OREGON STATE UNIVERSITY  
Graduate Research Assistantships, Department of  
Horticulture. M.S. or Ph.D. degree programs.  
Research in biotechnology, breeding, genetics,  
production and physiology.

SOUTHERN ILLINOIS UNIVERSITY  
Graduate Research Assistantship in Plant Ecology.  
Available starting January 1998. M.S. degree,  
registered for a Ph.D. in plant biology.  
Responsibilities will include the collection of  
baseline data, supervision of undergraduate  
researchers, data management, and participation  
in the teaching of ecology laboratories.

UNIVERSITY OF TENNESSEE  
Research Assistant Professor/Research Associate  
Professor in Soybean Breeding and Genetics. Ph.D.  
in plant breeding and a strong background in  
statistics and quantitative genetics is essential.

Closing date: November 15, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
October 6, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

A Departmental invitation is at the front desk, 411 Borlaug Hall, for all staff and faculty of Agronomy & Plant Genetics to attend a marriage celebration reception for Lynn and Marilyn (Hole) Swanson on October 17, 1997 from 6:00-10:00 p.m. Please stop by the front desk and refer to the invitation for more details.

Monday, October 13 is Beautiful U Day. Everyone is encouraged to clean up their areas by recycling paper. Also on Monday, October 13 there will be a luncheon from 11:00 a.m. to 1:00 p.m. at the St. Paul Student Center to thank faculty, staff and students who have cleaned up their areas.

The inauguration celebration for President Yudof will be held October 13-17. University students, staff, and faculty are invited to share in the celebration during the Student-Staff Ice Cream social (11:00 a.m. to 1:00 p.m.) on both Minneapolis and St. Paul Campuses and the Evening on the Mall activities (5:00-7:00 p.m.) both on Wednesday, October 15. "The Future of the Large Public Research University" featuring four presidential panelists moderated by Ken Keller will be held on Thursday, October 16 (2:00-4:00 p.m.). Please join fellow members of the University community on Friday, October 17, watching the inauguration academic procession from Coffman to Northrop (12:10 p.m.), and rejoin your friends and colleagues at the post inauguration ceremony parties held in the Basic Sciences Atrium, Coffman Great Hall, Weisman Art Museum, and the St. Paul Student Center from 2:00-4:00 p.m. For more information and locations of all inauguration activities check the web Events Calendar at <http://events.tc.umn.edu>.

Beginning with fall quarter, the Campus Connector route has been expanded to service every five minutes until 4:30 p.m., and extended service until 9:30 p.m. Como Shuttle Service has been discontinued. All Campus Shuttle System buses are now 100% accessible. Alternative service is available on Metro Transit's route 6. For more information call 626-7275.

Mark your calendars for our Department's fall social event which will be held on Wednesday, October 22 from 2:30 to 4:30 p.m. in 306 Borlaug Hall.

If anyone is going to Crookston soon, please contact Ruth Dill-Macky in Plant Pathology at 5-2227.

## Greenhouse Users

REMINDER: Today is a greenhouse CLEAN UP/watering day. Everybody should be sweeping their greenhouses and disposing of trash. Only growing plant material should be in the greenhouses.

I will be gone next Monday, October 13th. Everybody needs to do their own watering.

THANKS for your help!

Pamela Altermatt

## ISEES Publication Competition

ISEES, the Institute for Social, Economic and Ecological Sustainability, at the University of Minnesota is pleased to announce a competition to encourage transdisciplinary publications on issues of sustainability. Recipients of up to \$500 grants must submit a manuscript to a peer-reviewed journal or produce a major educational resource for academic or public audiences. Shared authorship between researchers and practitioners is especially encouraged, though not required. Selection criteria will be based on innovative aspects of project, clear justification of target audience, and transdisciplinary approaches (especially combining social and natural sciences). ISEES will provide pre-submission peer review of the manuscripts and additional assistance to authors. Completed manuscripts must be submitted to a peer-reviewed journal or other appropriate forum by 1 MARCH, 1998.

Applications due by 31 OCTOBER, 1997.  
Award announcements at the end of November.

A complete copy of the RFP is available in the main office, or by contacting ISEES:  
E-mail: [ISEES@fw.umn.edu](mailto:ISEES@fw.umn.edu), Phone: 624-7723,  
FAX: 649-5055

## Student/Employee Absence for Religious Holidays

Please review the following general policy guidelines related to excused absences for students and employees to observe religious holidays. Faculty, staff and students should be aware of this policy.

### Students:

The University of Minnesota permits absences from class for participation in religious observances.

Students who plan to miss class must:

1. Inform instructors of anticipated absences at the beginning of the quarter when possible;
2. Meet with instructors to reschedule any missed examinations; and
3. Obtain class notes from other students.

Instructors are required to assist students in obtaining course materials and assignments distributed during class sessions and to make arrangements for taking missed examinations.

### Employees:

This policy applies to professional and administrative employees, civil service employees and faculty who are on twelve month or A-base appointments. It does not apply to employees who are subject to a collective bargaining agreement which governs their rights and it does not apply to faculty who are on nine-month appointments who may make arrangements for observance of religious holidays by arrangement with their department head.

The University of Minnesota permits absences from work for employees to participate in religious observances.

These absences must be arranged with the employee's supervisor who is encouraged to accommodate the employee's request to the extent it is practicable in their unit. Employees are responsible for giving supervisors at least two week's notice of the proposed absence.

Employees may request this time as either:

1. Paid vacation;
2. Time off without pay; or
3. The option to make up equivalent time by arrangement with the employee's supervisor.

Questions about this policy as it affects students should be directed to the Office of the Vice President for Student Development and Athletics at 624-3533.

## Employee Information Sessions

Four sessions will be held for employees transferring from Regular Payroll to Biweekly Payroll effective February 16, 1998.

### East Bank:

10/16/97, 8:30 a.m., 150 Physics

10/17/97, 8:30 a.m., 40 Architecture

### West Bank:

10/20/97, 9:00 a.m., 309 Ackerman

### St. Paul Campus:

10/23/97, 9:00 a.m., 15 Food Science & Nutrition

## Digital Technology Summit

Trends and Challenges, sponsored by University of Minnesota, Minnesota High Technology Council and Minnesota Office of Technology. This summit will be held on Wednesday, October 22 at the Hyatt Regency Hotel. Reservations should be made by October 8. After October 8, call 625-5886 to determine space availability. Check out their website: <http://www.cee.umn.edu/pdcs/digtech.html>

## Seminars

October 6

Plant Breeding, Mike Murray (Mycogen), Challenges in getting hi-tech plants to market: What I wish I'd learned in graduate school, 3:30 p.m., 306 Borlaug Hall.

Plant Pathology, Tsitsi Ndowora, Plant viruses exist as quasispecies populations, 2:30 p.m., 365 Borlaug Hall.

Animal Science, F. Abel Ponce de Leon, Recent advances in chicken primordial germ cell technology, 12:00 p.m., 125 ABLMS.

October 7

Plant Biological Sciences Colloquium, John Doebley, Genetics and the evolution of plant form, 3:30 p.m., 306 Borlaug Hall.

October 8

Computer Series, Dean Flanders, Campus computing: A survival guide, 12:10 p.m., 365 Borlaug Hall.

October 9

Graduate School, V. Kerry Smith, Pricing what is priceless: Ecological versus economic perspectives, 12:00 noon, 150 Ecology.



## For Sale

The Gopher Crops & Soils Club is selling gourds for \$.25 cents each. They are up in the main office, 411 Borlaug Hall. Please help support the undergraduate club by purchasing some of these gourds for your home or office.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

#### AGRI-GROWTH

Developer/Technical Writer. M.S. or Ph.D. in agronomy or a related field. Must relocate within commuting distance of Hollandale, MN.

#### DEKALB GENETICS CORPORATION

Research Technician in Olivia, MN. Degree in ag-related field desirable. Position requires operating and maintaining research planting and harvesting equipment, supervising field crews, pollinating, data collection and performing other research activities.

#### DUQUESNE UNIVERSITY

Faculty Position in Molecular/Cellular Biology, Department of Biological Sciences. Ph.D., postdoctoral research experience, and a commitment to both research and teaching.

Closing date: November 15, 1997

#### UNIVERSITY OF ILLINOIS

Assistant Professor Biometry, Department of Crop Sciences. Ph.D. in statistics or biometry with interest and experience in agronomic crop productivity or a Ph.D. in crop science. Nine-month, tenure track position with 50% research and 50% teaching.

Closing date: May 21, 1998

Visiting Extension Specialist, Department of Crop Science. B.S. in an agricultural discipline with emphasis in weed science in required, M.S. preferred. Non-tenure, 50% time academic professional position.

Closing date: December 15, 1997

#### MICHIGAN STATE UNIVERSITY

Research Associate, Department of Crop and Soil Sciences. Ph.D. in soils-forestry, or related area.

Closing date: October 15, 1997

Assistant Professor of Soil Chemistry, Department of Crop and Soil Sciences. Ph.D. in soil chemistry or related area. Tenure-track, 12-month appointment with 75% research and 25% teaching.

Closing date: March 1, 1998

#### UNIVERSITY OF MINNESOTA

Principal Secretary, College of Human Ecology. Minimum of three years of office experience and/or education/training. Clerical support 55%, public relations support 25%, and Organization and Planning 20%.

#### NORTH DAKOTA STATE UNIVERSITY

Pesticide Programs Specialist, Department of Plant Sciences. M.S. or Ph.D. in entomology, plant pathology, weed science, agricultural engineering or closely related agricultural discipline.

Closing date: October 20, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
October 13, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Congratulations

Congratulations to Beverly Durgan who was recently awarded the Dean and Director Award for Outstanding State Extension Faculty Member-Campus Board.

Congratulations to Laddie J. Elling who was selected as the 1997 recipient of the Cameron University Alumni Association's Distinguished Alumni Award for exhibiting leadership in the field of research.

Cameron University is located in Lawton, Oklahoma. Laddie attended school at Cameron and was the Outstanding Agriculture Student in 1937, the year that he received an associate degree in agriculture. He came to the University of Minnesota in 1946 and received his M.S. and Ph.D. From 1947-1965 he organized and led the Alfalfa Improvement Project, and from 1965-1985 he developed and led the Grass-Legume Seed Production Research Project. He also taught several courses and coached the Intercollegiate Crops Team. Laddie retired in December 1985 and continues to be active in the Agronomy Department as a Emeritus Professor. Laddie and his wife Helen currently reside in Arden Hills.

Laddie and two other recipients received the awards on October 4, 1997 at Cameron University. Several family members were in attendance to see Laddie receive this prestigious award. Congratulations Laddie!

## Announcements

The Gopher Crops & Soils Club are selling pumpkins and gourds on the corner of Larpenteur and Cleveland from 3:00-6:00 p.m. weekdays and from 10:00 a.m. to 6:00 p.m. weekends. There is also a sign up sheet at the front desk in 411 Borlaug Hall if you would like to order a pumpkin and have it delivered to the main office. Please help support the undergrad club.

A Crop Kits Night will be held on Wednesday, October 15 at 5:30 p.m. Meet in 101 Hayes Hall for free pizza and pop. Everyone is welcome to attend.

Career Day '97 will be held on Wednesday, October 22 from 10:00 a.m. to 3:00 p.m. in the North Star Ballroom of the St. Paul Student Center. This is co-sponsored by the College of Agricultural, Food and Environmental Sciences.

COAFES Career Service now has a web site: [www.coafes.umn.edu/career](http://www.coafes.umn.edu/career). At some points, users are prompted for a name and password. The name is gopher and password is cs4u. From their site, students are able to enter their resume into their database, view campus recruiting calendar and see both job listings for full-time and intern positions. They have begun to enter jobs into the site but is not complete at this time. The site is on a secure server so when students enter information into the resume it is very slow. Please check it out and if you have suggestions, let Jean Underwood know at 624-2710 or [jmunder@maroon.tc.umn.edu](mailto:jmunder@maroon.tc.umn.edu).

Rainin has agreed to be available next week for free pipetman inspection. On Tuesday, October 14 from 8:00 a.m. to 1:00 p.m. in 406 Bio Sci in St. Paul. Part of the inspection will be to show you how you can do minor repairs, and Repair Service is available for units that don't pass inspection. You will be able to send pipettes to Rainin Service Department and receive 48-hour service. In addition, there will be hands-on new product demos. Your U of M Rainin sales rep is Kathy Lohmeier and can be reached at 800- 828-2788, ext. 370. Thanks, Dee McManus, Lab Services

As part of President Yudof's inauguration, a Roundtable Discussion will be held on "The Future of the Land-Grant University System." Sharing observations and leading discussions will be Dr. Chet McCorkle, formerly of the University of California-Davis, President Ernest Holloway of Langston University and President Jack Briggs of the Fond du Lac Tribal and Community College. This event will be from 10:15 to 11:30 a.m. in room 375 Borlaug Hall on Thursday, October 16. Your participation is invited and encouraged. Please join us for coffee and treats at 10:15-10:30 a.m. and stay for the discussion which will end about 11:30 a.m.

## Greenhouse Users

REMINDER: I am gone today Monday, October 13. Everybody is responsible for their own watering.

Pamela Altermatt

## Brown Bag Discussion

Emily van de Mortel, Unique education opportunity grant. Sponsored Perspectives of Successful Seed Companies in the Netherlands, Friday, October 17, 12:00 noon in 306 Borlaug Hall.

## Seminars

October 13 **Plant Breeding**, Tim Helentjaris, Applications of genomic technologies to aspects of agronomic performance, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Dann Adair, Centralized management of St. Paul Greenhouses, 2:30 p.m., 365 Borlaug Hall.

October 14 **Plant Biological Sciences Colloquium**, Zev Winicur, Auxin deprivation induces golgi stack differentiation in suspension cultured tobacco cells, 3:30 p.m., 306 Borlaug Hall.

October 15 **Computer Series**, Paul Brady, COAFES instructional computing resources, 12:10 p.m., 365 Borlaug Hall.

October 16 **Biotechnology**, James Shapleigh, Regulation of nitric oxide metabolism in the bacterium *Rhodobacter sphaeroides*, 3:30 p.m., 239 Gormer Lab.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### AUBURN UNIVERSITY

Assistant Professor, Department of Agronomy & Soils Department. Ph.D. in soil microbiology or soil ecology. Tenure-track position with teaching and research responsibilities.

Closing date: January 5, 1998

Postdoctoral position in Lupin Breeding, Department of Agronomy & Soils Department. Ph.D. in applied plant breeding.

Closing date: January 1, 1998

### UNIVERSITY OF FLORIDA

Assistant Professor, Department of Botany. Ph.D. and preference will be given to applicants with postdoctoral experience.

Closing date: November 30, 1997

### LOUISIANA STATE UNIVERSITY

Research Associate in wheat breeding and variety testing program. B.S. or M.S. and experience with field plot techniques and variety testing or plant breeding.

### McGILL UNIVERSITY

Assistant Professor, Plant Science Department. Ph.D. in plant or animal science with training and experience in pasture and/or forage management, livestock management, or low-input agricultural systems. Tenure-track.

Closing date: January 1, 1998

### UNIVERSITY OF NEBRASKA-LINCOLN

Extension Assistant, Department of Agronomy. B.S. in agronomy, biological sciences, or related field, plus one year related experience to include a working knowledge of crop production and weed management.

Closing date: October 17, 1997

### PIONEER HI-BRED INTERNATIONAL

Research Manager. Ph.D. in plant sciences or a related field, or M.S. in plant sciences plus six-eight years experience. Will focus on the introduction of crop protection traits into germplasm via plant transformation. Two openings.

Closing date: November 3, 1997

Research Associate. B.S. or M.S. in plant sciences with an additional two years experience in plant transformation.

Closing date: November 3, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
 University of Minnesota  
 411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
 October 20, 1997

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## Announcements

A faculty meeting will be held on Tuesday, October 21 from 1:00-3:00 p.m. in 306 Borlaug Hall.

Our Department's Fall Social will be held on Wednesday, October 22 from 2:30-4:30 p.m. in 306 Borlaug Hall. Come meet staff, students, and faculty new to the department since last fall. Enter the pumpkin and gourd decorating contest and win fabulous prizes. Cost is \$2.00. If you bring a contest entry, the cost is \$1.00. Purchase pumpkins and gourds from the Gopher Crops and Soils Club. See the display in 411 Borlaug Hall.

A Biweekly Payroll Employee Information Session will be held on Thursday, October 23 at 9:00 a.m. in 15 Food Science & Nutrition for all employees transferring from the Regular payroll to Biweekly payroll effective February 16, 1998.

Daylight Savings Time ends on Sunday, October 26. Set your clocks back one hour.

The Seventh Annual Urban-Rural Conference "Reclaiming the Sacred in Farming and Food" will be held November 23-23, 1997 in East Troy, WI. To receive a registration brochure, please contact Michael Fields Agricultural Institute at 414-642-3303 or mfai@igc.apc.org. Workshop sessions will explore topics such as the institutional use of local foods, the heritage of corn, and local farm enterprise development.

## Brown Bag Discussion

Carmen Fernholz, Pat Henderson, and Robert von Bernuth, EcoSocial swine fever, Friday, October 24 at 12:00 noon, 306 Borlaug Hall. Bring your lunch and a friend.

## Seminars

October 20 **Plant Breeding**, Deborah Samac, Investigations into mechanisms of resistance and biocontrol of the root-lesion nematode in alfalfa, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Nevin Young, Molecular strategies for studying complex resistance genes in plants, 2:30 p.m., 365 Borlaug Hall.

October 21 **M.S. Thesis Defense**, John McLaughlin, Investigation of genomic regions controlling maturity in maize (*Zea mays* L.) using an advanced backcross-derived population, 9:00 a.m., 306 Borlaug Hall.

**Plant Biological Sciences Colloquium**, David Plank, Evidence for iron-regulation of multi-subunit Acetyl-CoA-Carboxylase of Soybean, 3:30 p.m., 306 Borlaug Hall.

October 22 **Faculty Position-Director of the Office of International Agricultural Programs**, Dario Menanteau-Horta, Vision and mission of international agricultural programs at a land-grant university, 9:00 a.m., 306 Borlaug Hall.

**Computer Series**, Dean Flanders, Voice and video over the internet, 12:10 p.m., 365 Borlaug Hall.

October 23 **Faculty Position-Director of the Office of International Agricultural Programs**, David Biesboer, Vision and mission of international agricultural programs at a land-grant university, 9:00 a.m., 306 Borlaug Hall.

October 23 Interdisciplinary Center for Ecological Risk Assessment, Gerald Niemi, Ecological risk assessment of a mosquito control program: A summary of a seven-year study, but what next?, 1:00 p.m., Minnesota Commons Room, St. Paul Student Center.

October 24 Faculty Position-Director of the Office of International Agricultural Programs, William Marsh, Vision and mission of international agricultural programs at a land-grant university, 9:00 a.m., 306 Borlaug Hall.

Department of Biosystems & Agricultural Engineering, Robert von Bernuth, Carmen Fernholz and Pat Henderson, EcoSocial swine fever, 1:30 p.m., 106 BioAgEng.

**Position Announcements  
(Posted in notebook in 411 Borlaug Hall)**

UNIVERSITY OF CALIFORNIA, RIVERSIDE  
Assistant Professor, Department of Biochemistry.  
Ph.D. and postdoctoral experience. Tenure-track,  
nine-month appointment.

Closing date: November 30, 1997

COLORADO STATE UNIVERSITY  
Assistant Professorship, Department of Biology.  
Ph.D. and postdoctoral experience in molecular  
biology or biochemistry. Tenure-track.

Closing date: November 15, 1997

UNIVERSITY OF ILLINOIS  
Assistant Professor of Weed Science, Department  
of Crop Sciences. Ph.D. in weed science or a  
closely related discipline. Tenure-track, nine-  
month position with opportunity for summer  
appointment.

Closing date: January 5, 1998

IOWA STATE UNIVERSITY  
Regional Soybean Cyst Nematode Education  
Coordinator, Department of Plant Pathology.  
Ph.D. in nematology, plant pathology, or an  
applied agricultural field and proven excellent  
communication skills are required. Three year  
position.

Closing date: October 31, 1997

KANSAS STATE UNIVERSITY  
Temporary Assistant Scientist, Department of  
Agronomy. B.S. with a strong science option that  
includes courses in inorganic and analytical  
chemistry.

Closing date: October 24, 1997

MICHIGAN STATE UNIVERSITY  
Assistant Professor in Horticultural Plant  
Physiology-Fruit Physiology, Department of  
Horticulture. Ph.D. in horticulture, plant  
physiology, or related field. Tenure-track, 75%  
research and 25% teaching.

Closing date: December 31, 1997

UNIVERSITY OF MINNESOTA  
Director of Human Resources and Facilities  
Management. B.S. required, M.S. preferred. Three  
years professional experience within an academic  
setting, including demonstrated experience with  
human resources systems.

Closing date: October 17, 1997

Accountant, College of Human Ecology. B.A. with  
specialization in accounting or combination of  
education and relevant experience for a total of  
four years.

UNIVERSITY OF TENNESSEE  
Research Assistant Professor/Research Associate  
Professor in Plant Breeding and Genetics,  
Department of Plant and Soil Sciences. Ph.D. in  
plant breeding with a strong background in  
statistics and quantitative genetics is essential.  
Nontenure-track position with responsibilities of  
100% research.

Closing date: November 15, 1997

USDA FOREST SERVICE  
Biological Science Technician, Forestry Sciences  
Lab. Research support for investigations on the  
resistance of eastern white pine to white pine bliser  
rust. Appointment is for two years.

min  
8/28/97

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
October 27, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Whoever borrowed the humidifier - small personal desk type, please return it to Judy Slyter. I bought it with personal funds. Thank you.

The annual Employee Health and Benefits Fair will be held on Tuesday, October 28 from 10:00 a.m. to 3:00 p.m. at the North Star Ballroom, St. Paul Student Center. Information booths and health screening will be available. Free gifts from the insurance and retirement plan carriers will be given away. All employees are encouraged to attend this event.

The MacArthur Program has sent out a call for applications from doctoral students conducting research in the developing world. Grants are up to \$5,000 each for fieldwork. The research focus is on issues of social change, sustainable development, peace and international cooperation, and grassroots empowerment. For more information, contact Raymond D. Duvall at 624-0832. Applications and supporting materials are due December 5, 1997.

Carol E. Macpherson Memorial Scholarship & Minnesota Alumnae Society Scholarship for the 1998-1999 academic year.

--Scholarships provide one year of financial support through a limited number of awards ranging from \$500 to \$2,500. You may apply if you are: at least 28 years old; returning from a five-year or longer break in obtaining a college/post-secondary education; admissible to or enrolled in a degree-granting program at any University of Minnesota campus. Applications available at the Minnesota Women's Center, 212 Nicholson Hall. Tel: (612) 625-9837; e-mail:mnwomen@maroon.tc.umn.edu. Applications due January 9, 1998.

## Brown Bag Discussion

Suzanne Groh, Genetic analysis of resistance to corn borers in tropical maize using molecular markers, Friday, October 31 at 12:00 noon, 306 Borlaug Hall. Bring your lunch and a friend.

## Seminars

October 27 Plant Pathology, Jill Calabro, Heat treatment for control of plant pathogens, 2:30 p.m., 365 Borlaug Hall.

October 28 Computer Series, Steve Nguyen, Campus e-mail and internet services, 12:10 p.m., 365 Borlaug Hall.

## Plant Biological Sciences

Colloquium, Michael Sussman, Reverse genetic analysis of genes encoding plasma membrane transporters and protein kinases, 3:30 p.m., 306 Borlaug Hall.

October 30 Biotechnology, Kelly Rein, Marine toxins: Old enemies and emerging threats, 3:30 p.m., 239 Gortner Lab.

November 3 Special Seminar, Anne Osbourn, Saponins and plant defense, 9:00 a.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA, RIVERSIDE  
Assistant Professor, Department of Biochemistry. Ph.D. with postdoctoral experience. Tenure-track, nine-month appointment.

Closing date: November 30, 1997

COLORADO STATE UNIVERSITY  
Professor and Department Head, Department of Soil and Crop Sciences. Candidates must have attained the rank of full professor and a Ph.D. in soil science, crop science, plant genetics, plant breeding or closing related discipline.

Closing date: December 15, 1997

UNIVERSITY OF MINNESOTA

Assistant Professor, Department of Animal Science. Ph.D. in animal science. Tenure-track, 12-month appointment in beef cow-calf management.

Closing date: January 15, 1998

Assistant Scientist in Soil Science, Northwest Experiment Station, Crookston. B.S. in soil science, agronomy, or related field and one year experience in experimental field research. This is a two-year position with the potential for continuation depending on performance and continued funding.

Executive Director, Minnesota Agricultural Education Leadership Council. Provide recommendations to the Council for submission to the legislature regarding agricultural education policies, and represent the Council at the legislature. M.S. and post-graduate training in agriculture or education.

Closing date: November 1, 1997

UNIVERSITY OF MISSOURI

Postdoctoral with the Maize Genome Database, USDA and Department of Agronomy. Ph.D. in plant breeding/crop science with sustainable background and experience in maize genetics, QTL analysis, and crop improvement.

MONSANTO

Soybean Geneticist or Breeder. Ph.D. in plant genetics or breeding required with an understanding of basic plant physiology.

Soybean Agronomist. M.S. in agronomy, plant breeder or a related field. Work within a multi-disciplinary team to support and develop value-added traits in soybeans.

Closing date: December 1, 1997

SAMUEL ROBERTS NOBLE FOUNDATION, INC.

Specialist in the area of Molecular Marker/Genomics research and development for the new Forage Biotechnology Group. Ph.D. in biology with experience in molecular biology.

TEXAS AGRICULTURAL EXPERIMENT STATION

Assistant Professor, Agricultural Research and Extension Center. Ph.D. in soil science with appropriate training in soil fertility, soil chemistry, and plant nutrition.

Closing date: January 5, 1998

UNIVERSITY OF WISCONSIN-EXTENSION

Agricultural Assistant specializing in vegetable and grain crops, Cooperative Extension. B.S. degree required, M.S. preferred in a field of agriculture.

Closing date: November 17, 1997

Agricultural Agent in Animal Science Specialization, Cooperative Extension. M.S. in field of agriculture, animal science and/or adult education.

Closing date: December 1, 1997

Job Opportunities

The Job Seeker is a publication which provides complete job vacancy information, including job titles, locations, duties, filing dates, addresses, salaries, qualifications, application procedures, contact persons and phone numbers. The Website is <http://www.tomah.com/jobseeker>

miw  
J. F. Orf

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
November 3, 1997

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## Announcements

Congratulations to Vern Cardwell, Jim Orf, Ron Phillips and Howard Rines who received awards at the ASA meetings last week.

- Vern Cardwell - CSSA Fellow
- Jim Orf - ASA and CSSA Fellow
- Ron Phillips - CSSA DeKalb Crop Science Distinguished Career Award
- Howard Rines - ASA Fellow

A farewell coffee will be held for Juerg Blumenthal and Constanza Montealegre on Wednesday, November 5 at 3:00 p.m. in 408 Hayes Hall.

The annual ski swap will be held November 13 and 14 from 9:00 a.m. to 8:00 p.m. and November 15 from 9:00 a.m. to 5:00 p.m. Bring in your gear to sell to the North Star Ballroom (St. Paul Student Center) on November 11 and 12 from 9:00 a.m. to 8:00 p.m. New and used downhill skis, snowshoes, snowboards, accessories and winter gear will be sold.

Scholarship and Awards: The Garden Club of America has many opportunities available for all kinds of scholarships, ranging from short-term, undergraduate, and full-year graduate studies. More information may be obtained on the GCA web site at: <http://www.users.interport.net/~gca>.

## Proposals

North Central Integrated Pest Management Request for Proposals are due: Letter of Intent, December 15, 1997; Full Proposal due, January 15, 1998. See Jeanne for specific instructions.

The Minnesota Cultivated Wild Rice Council Board of Directors is soliciting research proposals for cultivated wild rice research projects. Proposals must be received by the Council office by November 18, 1997. See Jeanne for details.

## Brown Bag Discussion

Jean-Luc Jannink, If agronomists become agroecologists, what will plant breeders become?, Friday, November 7 at 12:00 noon in 306 Borlaug Hall. Bring your lunch and a friend.

## Greenhouse Users

Today is a clean up/watering day.

This fall there have been a few thefts in the greenhouses. Please remember to close and lock doors behind you!! Some of the doors need to be pulled shut. The police have been leaving red cards on the doors that they have been finding unlocked or not closed properly.

Thanks, Pamela Altermatt

## Seminars

November 3 **Plant Breeding**, Cristian Vladutu, Self-incompatibility systems, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Jennifer Juzwik, Understanding overland transmission of *Ceratocystis fagacearum*, 2:30 p.m., 365 Borlaug Hall.

November 4 **Plant Biological Sciences Colloquium**, Paula Pijut, Woody plant tissue culture and disease resistance research of *Fagus*, *Juglans*, *Pinus*, and *Populus*, 3:30 p.m., 306 Borlaug Hall.

November 5 **Computer Series**, Kathy Wern and JoAnn DeVries, Introduction to the new library web interface, 12:10 p.m., 365 Borlaug Hall.

November 6 **Biotechnology**, Paige Novak, Enhanced dechlorination of carbon tetrachloride and chloroform: Implications of an active extracellular biomolecular, 3:30 p.m., D230 Mayo, Minneapolis Campus.



**Position Announcements  
(Posted in notebook in 411 Borlaug Hall)**

**UNIVERSITY OF ARKANSAS**

Assistant Professor-Weed Physiology, Department of Agronomy. Ph.D. in weed science or related discipline with strong experience in plant physiology and biochemical aspects of herbicide activities and their genetic regulation.

Closing date: November 15, 1997

**COLORADO STATE UNIVERSITY**

Assistant Professor, Department of Biology. Ph.D. in botany/biology or related area. Postdoctoral experience is strongly preferred. Tenure-track position which involves teaching and supervision of research by undergraduate and graduate students.

Closing date: November 15, 1997

**UNIVERSITY OF GEORGIA**

Associate Dean for Academic Affairs, College of Agricultural and Environmental Sciences. Ph.D. and rank of full professor.

Closing date: January 15, 1998

**W.K. KELLOGG FOUNDATION**

Program Director in Food Systems and Rural Development. M.S. or Ph.D. in a field related to food systems or rural development

Closing date: November 17, 1997

**UNIVERSITY OF MINNESOTA**

Extension Educator in Crop Systems, Minnesota Extension Service. M.S. in agriculture.

Closing date: November 20, 1997

**UNIVERSITY OF MISSOURI**

Assistant Professor/Turf Production and Management, Department of Horticulture, Plant Sciences Unit. Ph.D. in horticulture or agronomy with training and experience in turfgrass production and management. Tenure-track, 12-month appointment.

Closing date: January 15, 1998

**UNIVERSITY OF NEBRASKA-LINCOLN**

Maize Quantitative Geneticist, Department of Agronomy. Ph.D. in plant genetics, crop science, or related field. Tenure-leading position with 80% research and 20% teaching.

Closing date: February 15, 1998

**NORTH DAKOTA STATE UNIVERSITY**

Director, Agricultural Experiment Station. Ph.D. and full professor, ability to build a team of effective leaders and lead interdisciplinary activities.

Closing date: January 1, 1998

**OREGON STATE UNIVERSITY**

Assistant Professor, Department of Crop and Soil Science. Ph.D. in soil physics and potential to develop a research program that is recognized by the national and international soil science communities.

Closing date: January 2, 1998

Assistant Professor in wheat breeding, Department of Crop and Soil Science. Ph.D. in plant breeding or a closely related area. Tenure-track, 12-month position, and possible granting of OSU Wheat Endowed Chair.

Closing date: January 2, 1998

Assistant Professor in Biotechnology, Department of Crop and Soil Science. Ph.D. in plant genetics, molecular biology, or a closely related area. Tenure-track, 12-month appointment.

Closing date: January 2, 1998

**RUTGERS UNIVERSITY**

Assistant or Associate Extension Specialist in Weed Science. Ph.D. in weed science, plant science, agronomy, horticulture or closely related field. Tenure-track with 70% extension and 30% research.

Closing date: December 1, 1997

**USDA**

Research Geneticist in Raleigh, NC. Conduct research on the mapping, isolation, and characterization of genomic regions in maize.

Closing date: November 17, 1997

**WORLD RESEARCH INSTITUTE**

Research Analyst (Part-time), Sustainable Agriculture Program, Center for International Development and Environment. M.S. and work experience on agriculture/natural resource issues in developing countries.

MW  
SAG

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773

November 10, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

My visit to the University of Minnesota for three months starting 28 July 1997, under a Fulbright grant hosted by Dr. R.R. Allmaras, has been a true learning experience, but an enjoyable and fruitful period both for me and my family. I would like to express my profound gratitude to Dr. R.R. Allmaras, Dr. R.K. Crookston, Dr. H.H. Cheng and to, so many friends and colleagues in the Department of Agronomy and Plant Genetics, the Department of Soil, Water and Climate and the International Agricultural Program, that directly or indirectly offered me warm hospitality, friendship, technical support and very significant secretarial help. Thank you all. Mohamed Oussible

Congratulations to the following Agronomy undergraduates who were recognized at the COAFES Scholarship Recognition and Reception on Thursday, November 6, 1997:

Students	Scholarships
Mathew Eichler	Gluek
Trevor Hamre	Crow Hybrid
Tim Hansberger	Benson Quinn Co.
Marsha Hoelt	Harvest State
Melissa Huhn	Gluek
Adam Johnson	Gluek
Ryan Lee	Harvest State
Helen Lehto	Robert G. Robinson
William (B.J.) Patzoldt	COAFES Alumni Board and Gluek
Eric Watkins	Robert G. Robinson
Barbara Wingen	Robert G. Robinson

Also, a big thank you to Dr. Robert G. Robinson whose generous contributions to the College funded nine scholarships.

The next faculty meeting is scheduled for Monday, November 17 at 1:00 p.m. in 306 Borlaug Hall.

The Loan Request forms, which were originally scheduled to be sent to AFSCME clerical and technical employees on Friday, October 31, 1997, will now be sent on November 26, 1997. These forms will reflect the employee's pay rate which is effective November 26, 1997.

The Minnesota Soybean Research and Promotion Council (MSR&PC) invites interested and qualified individuals, organizations and institutions to address the current research priorities of the MSR&PC. Proposals are due to ORTTA on December 2, 1997. See Jeanne for details.

As of November 10, 1997, Life Technologies (GIBCO/BRL) catalog products can be ordered on line through University Stores (input the Life Technologies' catalog number). Products should be delivered the next day or at most two days after placement of an order. If you need more information, contact Suzanne Livingston.

The Red Buick Century is no longer available for use. Mike McClellan

## Crop Pest Management Short Course

The 17th Annual Crop Pest Management Short Course will be held on November 24-25 at the Earle Brown Center. This is a fee-based program geared for agricultural professionals, such as private crop consultants, agronomists, agrichemical representatives, soil conservationists, and extension educators. This two-day program provides in-depth, high quality coverage of contemporary issues in crop pest management and crop production.

On November 24 the program will have a general session discussing such topics as El Nino, early season planting problems, herbicide drift and liability issues and a panel discussion of marketing and regulatory issues of transgenic crops. On November 25, the day will operate with concurrent sessions in areas of soil fertility, corn management, insect and weed management, new crop markets, and computer resources and client relationships for the ag professional.

Undergraduate and graduate students who wish to attend this program will be allowed a price break from the normal \$110 fee. Currently enrolled University of Minnesota students interested in attending the program can attend for a fee of \$50. Those who wish to enroll can contact Kevin Cavanaugh, IPM & Ag Professional

(Continued on next page)

Program Coordinator at 625-2778; 203A Hayes Hall. Brochures are available at department offices and some have been placed on bulletin boards in Borlaug Hall. If you plan to attend, you must indicate "special student fee \$50" on the registration form to take advantage of the reduced fee. Kevin Cavanaugh, IPM & Ag Professional Program Coordinator, Department of Agronomy & Plant Genetics

### Brown Bag Discussion

Hans Jung, Sabbatical Study: Microscopic evaluation of cell-wall development and degradability of an alfalfa internode, Friday, November 14 at 12:00 noon in 306 Borlaug Hall.

### Seminars

November 10 Plant Molecular Genetics, Burle Gengenbach and Peggy Egli, Acetyl-CoA carboxylases in maize: Update on mutants, genes and transformation, 12:00 noon, 239 Gortner Lab.

Plant Breeding, Martijn van de Mortel, Using transgenic plants to produce (Novel) proteins and other chemicals, 3:30 p.m., 306 Borlaug Hall.

Plant Biological Sciences Colloquium, Glenna Gilbert, Proteoid root development in white lupin, 2:30 p.m., 365 Borlaug Hall.

November 12 Computer Series, Linda Jorn, Instructional computing resources available at the digital media center, 12:10 p.m., 365 Borlaug Hall.

November 13 Biotechnology, Ives Piche, Developmental biology of endomycorrhizal symbiosis, 3:30 p.m., 239 Gortner Lab.

November 18 Special Seminar, Ferdinand Engels, Use of microscopy for the study of cell wall development and degradation, 9:00 a.m., 306 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF ARKANSAS

Research Specialist in Forages, Southwest Research and Extension Center. B.S. in agronomy, animal science or a closely related field, M.S. preferred. Experience in forage management and production is required.

Closing date: December 31, 1997

### BNH RESEARCH (Bonita Springs, FL)

Ph.D., tomato breeder with field, rather than laboratory emphasis, to work in the Central Valley of California. Experience with tomato breeding is preferred. Contact david.c.linde@Monsanto.com.

### COLORADO STATE UNIVERSITY

Manager/Research Associate, Western Colorado Regional Research Centers, Agricultural Experiment Station. B.S. or M.S. in horticulture, agronomy, entomology, soil science or other closely related plant science. Twelve-month, administrative professional position.

Closing date: January 5, 1998

### UNIVERSITY OF MINNESOTA

Extension Educator for Agriculture and the Environment. Two positions available. M.S. in agronomy or soil science. Course work and/or background in non formal education is required.

Closing date: November 24, 1997

### PURDUE UNIVERSITY

Research Agronomist, Department of Agronomy, Crop, Soil & Environmental Sciences. Ph.D. in plant breeding and genetics. Must have experience in field breeding programs.

Closing date: December 14, 1997

### USDA-ARS

Part-time Office Aide, Cereal Rust Laboratory, St. Paul Campus. Contact Rosaline Richards at 625-6299.

### WASHINGTON STATE UNIVERSITY

Associate in Extension and Research-Conservation Tillage Case Study Coordinator. M.S. or Ph.D. in agronomy, soil or closely related field. Strong written and oral communication skills, leadership abilities and computer expertise.

Closing date: December 1, 1997

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
November 14, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

Congratulations to Erik and Rhonda Levorson on the birth of their son Joshua Ando. Joshua was born on Wednesday, November 12 and weighed 7 lbs. 12 oz. and was 21" long. Mom, dad and baby are doing well.

Congratulations to two more undergraduate students in our department who received scholarships at the COAFES Scholarship Recognition and Reception on Thursday, November 6, 1997:

Thomas Buller - Robert G. Robinson  
Matthew Schleicher - Eloise Van Slyke

**DONATIONS:** The Sloppy Joe lunch is almost here! It will be held on Tuesday, November 25 from 11:45 a.m.-1:00 p.m. in 306 Borlaug Hall. If your project wants to make this event more enjoyable, please donate any kind of small gift for our raffle. Contact Cristine Handel at 5-3151 or at hand0056@maroon.tc.umn.edu. Thanks and see you there!

Request for 1998 Research Pre-Proposals for Independent Professional Seedsmen Association has a deadline for submission for committee review of December 1, 1997. See Jeanne for details.

There are several 15 ft.<sup>2</sup> growth chambers not currently checked out. If anyone in the department needs one, contact Donn Vellekson at 5-9765.

F.Y.I. - Student Employment has changed their policies and procedures for hiring students. New student requisition forms are available in 408 Borlaug Hall. See Marilyn or Judy for assistance in posting your next student position.

The elevator in Hayes Hall will be totally shut down on Wednesday, November 19 and Thursday, November 20 from 8:00 a.m.-4:30 p.m. for servicing.

## Greenhouse Users

EVERYONE is responsible for cleaning up behind themselves in the headhouse and the greenhouses. This includes sweeping up when you move plants or soil through the greenhouses. Thanks.

Pamela Altermatt

## Crop Pest Management Short Course

The 17th Annual Crop Pest Management Short Course will be held on November 24-25 at the Earle Brown Center. This is a fee-based program geared for agricultural professionals, such as private crop consultants, agronomists, agrichemical representatives, soil conservationists, and extension educators. This two-day program provides in-depth, high quality coverage of contemporary issues in crop pest management and crop production.

On November 24 the program will have a general session discussing such topics as El Nino, early season planting problems, herbicide drift and liability issues and a panel discussion of marketing and regulatory issues of transgenic crops. On November 25, the day will operate with concurrent sessions in areas of soil fertility, corn management, insect and weed management, new crop markets, and computer resources and client relationships for the ag professional.

Undergraduate and graduate students who wish to attend this program will be allowed a price break from the normal \$110 fee. Currently enrolled University of Minnesota students interested in attending the program can attend for a fee of \$50. Those who wish to enroll can contact Kevin Cavanaugh, IPM & Ag Professional Program Coordinator at 625-2778; 203A Hayes Hall. Brochures are available at department offices and some have been placed on bulletin boards in Borlaug Hall. If you plan to attend, you must indicate "special student fee \$50" on the registration form to take advantage of the reduced fee.

## Seminars

November 17 **Plant Breeding**, Oscar Riera, Production of cytogenetic stocks for the physical mapping of maize chromosomes, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Laszlo Gyenis, Application of remote sensing techniques in plant pathology, 2:30 p.m., 365 Borlaug Hall.

November 18 **Plant Biological Sciences Colloquium**, Linda Kohn, Evolution of clonal lineages in *Sclerotinia sclerotiorum* in agricultural and wild plant populations, 3:30, 306 Borlaug Hall

**Special Seminar**, Ferdinand Engels, Use of microscopy for the study of cell wall development and degradation, 9:00 a.m., 306 Borlaug Hall.

November 19 **Computer Series**, Gregg Richardson, Library research and preparing bibliographic information, 12:10 p.m., 365 Borlaug Hall.

November 20 **Biotechnology**, Andreas Kiener, Whole cell biocatalysis for the production of fine chemicals at Lonza, 3:30 p.m., D230 Mayo, Minneapolis Campus.

**Special Seminar**, Del Nantt, CROPSCAN multispectral radiometer system overview and demonstration, 12:00 noon, 491 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### BEREA COLLEGE

Agricultural Educator, Department of Agricultural and Natural Resources, Ph.D. in horticulture, agronomy, or soils as well as teaching experience. Tenure-track.

Closing date: December 15, 1997

### CALIFORNIA STATE UNIVERSITY

Assistant Professor, Department of Biological Sciences. Ph.D. in plant systematic and evolution, experience with traditional and molecular techniques and a strong interest in teaching.

Closing date: January 16, 1998

### KANSAS STATE UNIVERSITY

Graduate Research Assistantship in Soil Physics, Department of Agronomy. B.S. or M.S. in soil science, water science, hydrology, or agronomy.

### UNIVERSITY OF KENTUCKY

Assistant/Associate Professor of Agronomy, Department of Agronomy. Ph.D. in soil science, agronomy, soil and water engineering or a closely related field. The job will be approximately 80% research and 20% teaching.

Closing date: February 15, 1998

### UNIVERSITY OF MINNESOTA

Research Associate/Assistant Professor, Department of Physiology. Ph.D. in biological sciences and a background in nucleotide and calcium signaling research. Tenure-track position.

Closing date: November 15, 1997

### MONTANA STATE UNIVERSITY

Research Associate in Cropland Weed Management, Department of Plant, Soil, and Environmental Sciences. M.S. in plant science, agronomy, weed science, horticulture, or related field. Non-tenure track, full-time, fiscal-year appointment.

Closing date: December 1, 1997

### NORTH CAROLINA STATE UNIVERSITY

Research Associate, Center for Integrated Pest Management. Ph.D. in an ag-related field with some cotton experience.

### RAINBOW RESEARCH, INC.

Executive Director (nonproject organization whose mission is to help socially concerned organizations become more effective in their efforts to build stronger and more vital communities). Experience at organizational planning, management and leadership. Excellent communication skills, excellent financial and administrative skills, experience at working in and with diverse communities, and strong commitment to community renewal.

Closing date: January 1, 1998

M.W.  
Grigora

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
November 21, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

The next Sloppy Joe Lunch and Turkey Raffle will be held Tuesday, November 25 at 306 Borlaug Hall from 11:45 a.m. to 1:00 pm. Come join your department colleagues in a nice lunch and have some fun. You can still buy a raffle ticket and have a chance to win a turkey. Raffle tickets are \$1.00 each, lunch tickets will cost \$2.00.

The Northrup King Development Committee and the Social Committee would like to invite all members of the Department of Agronomy and Plant Genetics to a Departmental Coffee on Tuesday, December 2 at 9:30 a.m. in 306 Borlaug Hall. Come socialize with your colleagues and enjoy good conversation, food and beverages.

A retirement reception will be held for William Fenster on Friday, December 5 from 2:00-4:00 p.m., at the Shingle Creek Room in the Earle Brown Center. If you would like to make a donation towards a gift for Bill, or write a letter to be included in an album, please do so by November 26. Please send to Connie or Gretchen, Office of International Agricultural Programs, 1420 Eckles Avenue, St. Paul Campus.

Beef Cattle Feeders Day will be held on Tuesday, December 9 at the Northwest Experiment Station in Crookston. Registration and refreshments begin at 9:30 a.m. For more information, please call Larry Smith at 218-281-8602.

Student Employment has changed their policies and procedures for hiring students. New student requisition forms are available in 408 Borlaug Hall. See Marilyn or Judy for assistance in posting your next student position.

The College of Tropical Agriculture and Human Resources, University of Hawaii, invite students and faculty to participate in the 1998 National/International Field Study. Participants will have the opportunity to learn about global food and agricultural or textiles and apparel systems through a planned program of study in Japan. Please check out the brochure on the bulletin board outside 411 Borlaug Hall.

Employees who claim exemption from income tax withholding on form W-4 must complete a new W-4 for 1998 and submit it to Payroll so it is received by Tuesday, February 17 at 4:00 p.m. Current W-4 income tax withholding forms expire on February 15, 1998. If a new W-4 claiming exemption from withholding is not received by February 17, 1998, taxes will be withheld after that date. Residents of Wisconsin, North Dakota, and Michigan who work in Minnesota but want to be exempt from Minnesota income tax withholding, need to provide Payroll with a new MWR form by Tuesday, March 3, 1998 by 4:00 p.m. Employees should file a new W-4 whenever there is a change in filing status, exemption allowances, or exempt status. The W-4 can also be used to change mailing addresses. If you have any questions, please contact Payroll Tax Area at 624-2837.

## Seminars

November 24 **Plant Breeding**, Evgueni Ananiev, Physical mapping of maize chromosomes, 3:30 p.m., 306 Borlaug Hall.

**Plant Pathology**, Julien Mercier, Phytoalexins in carrot disease resistance, 2:30 p.m., 365 Borlaug Hall.

November 25 **Plant Biological Sciences Colloquium**, Pete Lefebvre, Genetic analysis of organelle development in chlamydomonas, 3:30 p.m., 306 Borlaug Hall.

**Special Seminar**, James Bever, Soil community dynamics and the ecology and evolution of plants, 10:30 a.m., 306 Borlaug Hall.

November 26 **Computer Series**, Steve Nguyen, Campus e-mail and internet services, 12:10 p.m., 365 Borlaug Hall.

**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

**COLORADO STATE UNIVERSITY**

Professor and Department Head, Department of Soil and Crop Sciences. Ph.D. in soil science with a rank of full professor. Outstanding professional leadership, excellent communication and interpersonal skills are required.

Closing date: December 15, 1997

**GRINNEL COLLEGE**

Assistant Professor, Department of Biology. Tenure-track faculty position. Postdoctoral research experience with undergraduates required.

Closing date: December 19, 1997

**UNIVERSITY OF MINNESOTA**

Assistant Professor, Departments of Entomology and Forest Resources. Ph.D. and expertise in forest insect management, forest ecology and silvicultural practices.

Closing date: February 6, 1998

Postdoctoral Associate, Department of Soil, Water, and Climate. Ph.D. in microbiology, molecular biology, biochemistry or a related field.

Experience in molecular biology and biochemical techniques is required.

**UNIVERSITY OF NEBRASKA-LINCOLN**

GIS Specialist/Integrated Pest Management. B.S. with major in computer science, landscape science, or related field.

Closing date: December 12, 1997

**NEW MEXICO STATE UNIVERSITY**

Senior Research Specialist, Cotton Breeding and Genetics. M.S. in plant breeding or plant genetics and a minimum of two years experience in a plant breeding program.

Closing date: November 21, 1997

**SOUTH DAKOTA STATE UNIVERSITY**

Extension Agent, Cooperative Extension Service. B.S. in an agricultural field and demonstrated effective communications skills.

Closing date: December 2, 1997

**TEXAS A&M UNIVERSITY**

Postdoctoral position to study carbon sequestration and nitrogen dynamics in switchgrass management systems compared to other forages and cultivated crops. Ph.D. in soil microbiology, ecology, soil fertility or chemistry.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 1, 1997

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

Gerald (Jerry) Clason, former Assistant Scientist for the Department, died November 27. There will be a memorial service on Tuesday, December 2 from 5:00-8:00 p.m. at Miller Funeral Home, Columbia Heights Chapel, 831 40th Avenue NE (789-3338).

The Northrup King Development Committee and the Social Committee would like to invite all members of the Department of Agronomy and Plant Genetics to a Departmental Coffee on Tuesday, December 2 at 9:30 a.m. in 306 Borlaug Hall. Come socialize with your colleagues and enjoy good conversation, food and beverages.

The Weisman Art Museum Store would like to announce their annual U of M Student, Staff and Faculty Holiday Sale. Anyone with a U Card will receive 20% off all purchases in the Museum Store from December 1-14.

Finals end on December 13! It is time to celebrate the holidays at the Agronomy and Plant Genetics Department's Winter Party! Please join us for a potluck lunch and a good time.

**THURSDAY, DECEMBER 18**

Noon until 2:00 p.m.

306 Borlaug Hall

St. Paul Campus

We will also be holding a food drive during this event: Please bring nonperishable donations to the event. Cost will be \$2.00 per person, but if you bring a food shelf donation the cost will only be \$1.00! See you on the 18th  
1997-98 Social Committee

## Brown Bag Discussion

Deon Stuthman, South American Trip, Global Oat Research, and El Nino, Friday, December 5 at 12:00 noon in 306 Borlaug Hall. Bring your lunch and a friend.

## Greenhouse Users

REMINDER: Today is a clean up/watering day. Thanks for your help. Pamela Altermatt

## Notices from Mike McClellan

The two Caravans are now parked in the backroom of Crops Service Building for winter.

Anyone that wants to store their project vehicles down in the Fairgrounds, contact Mike at 4-5395.

Any project vehicle that is pre 1992, needs to have an emissions done at the Farm Shop before January 1, 1998.

All ground plant and soil samples generated from grinding samples in the Crops Service Building need to be disposed of in sealed garbage bags or vacuumed up into the big tank. When the ground material is thrown in the dumpster, not contained in bags, this causes breathing problems for the garbage haulers because of the dust generated from the ground material as they load the truck. Containing the samples in garbage bags will solve the problem.

## President Yudof's Campus Cleanup Campaign

During the week of January 12-16, Borlaug and Hayes Hall are scheduled for building cleanup by Facilities Management.

### Materials covered:

Files and Office Paper  
Magazines, Books and Journals  
Electronic and Scrap Metal  
Cardboard  
Trash  
Bulky Items e.g. Furniture  
Research Samples

This is a major opportunity for all Agronomy personnel to clean their offices, labs, storerooms, classrooms, freezers and growth chamber areas. Any of the above items that are outdated, broken or no use to anyone anymore.

There will be no charge for any disposal of items during this week. We would normally be charged for this service. They will also come over and remove items off inventory before disposal. For questions and information, please call Mike at 4-5395 or Jeanne Davy at 5-1937.



### Seminars

- December 1     **Plant Breeding**, Stephen Temple,  
Modulation of nitrogen  
assimilation enzymes in transgenic  
alfalfa, 3:30 p.m., 306 Borlaug Hall.
- December 2     **Plant Biological Sciences**  
**Colloquium**, Perry Cregan,  
Simple sequence repeat DNA  
markers: Development and use in  
plants, 3:30 p.m., 306 Borlaug Hall.
- December 3     **Computer Series**, Andre Thomas,  
Web authoring tools overview,  
12:10 p.m., 365 Borlaug Hall.
- December 4     **Biotechnology**, David Wu, The  
clostridium thermocellum  
cellulosome: A molecular machine  
for cellulose degradation, 3:30  
p.m., 239 Gorter Lab.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

#### KANSAS STATE UNIVERSITY

Assistant Scientist, Department of Agronomy,  
Crop, Soil, and Range Sciences. B.S. or B.A. in  
chemistry, environmental chemistry, or closely  
related field.

Closing date: December 10, 1997

#### MICHIGAN STATE UNIVERSITY

Assistant/Associate Professor, Department of  
Horticulture. Ph.D. in horticulture or related field.  
Tenure-track, 12-month appointment.

#### UNIVERSITY OF MINNESOTA

Assistant Professor in Wheat Breeding and  
Genetics, Department of Agronomy and Plant  
Genetics. Ph.D. required by date of appointment  
in plant breeding or related field. Desired  
academic preparation: Courses in plant breeding,  
plant pathology, quantitative genetics, molecular  
genetics, and crop production. Tenure-track, 12-  
month appointment.

Closing date: January 15, 1998

#### THE SAMUEL ROBERTS NOBLE FOUNDATION, INC.

Postgraduate Fellowship in Forages. M.S. or Ph.D.  
in range or forage management with major  
emphasis in range science, agronomy, plant  
ecology, or soil, plant, animal interrelationships.

Closing date: February 15, 1998

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 8, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

The annual Toys for Tots collection is in full swing. A collection box has been placed in 411 Borlaug to deposit unwrapped toys to be given to less fortunate families to help brighten their Christmas. The collection box will be in the main office until December 15. I encourage everyone to consider helping spread the joy of the season to those less fortunate. Jeff McElroy

Request for Proposal for North Central Biotechnology Initiative are due March 3, 1998. See Jeanne for details.

The Holiday Cookie Party will be held on Monday, December 15 from 9:00 a.m. to 12:00 noon in 411 Borlaug Hall. Everyone is invited.

It is time to celebrate the holidays at the Agronomy and Plant Genetics Department's Winter Party! Please join us for a potluck lunch and a good time.

**THURSDAY, DECEMBER 18**

Noon until 2:00 p.m.

306 Borlaug Hall

St. Paul Campus

We will also be holding a food drive during this event. Please bring nonperishable donations to the event. Cost will be \$2.00 per person, but if you bring a food shelf donation the cost will only be \$1.00! See you on the 18th

1997-98 Social Committee

## Philip C. Hamm Memorial Scholarship Program

Two nonrenewable scholarships of \$750 each are available to graduate students in the plant sciences and related disciplines. To be eligible for nominations, a student must have:

Completed one academic year in a graduate school with good standing; Gained admission to the Graduate School of the University of Minnesota; Demonstrated promise as a research scientist through original research; Submission of a publication reporting original research in a plant science or related discipline to a professional journal is required.

Nominations must be submitted through the Director of Graduate Studies. Nominations are limited to one per graduate program in the plant sciences or related disciplines. Nominations should include a curriculum vitae documenting scholarly activities, transcripts of academic graduate work, and two letters of recommendation from faculty providing evidence of original research in a plant science of related discipline, and promise as a research scientist. Nominations should be submitted to: Mark Ascerno, Chairperson, Hamm Memorial Selection Committee, Department of Entomology, 219 Hodson Hall, St. Paul Campus. The award will be based entirely on merit, and the recipients will be recognized at the Philip C. Hamm Memorial Lecture in Spring Quarter 1998. Deadline for receipt of nominations is March 4, 1998.

## Weeds Discussion Group

Kevin Betts will discuss Ryegrass on Monday, December 15 at 12:00 noon in 408 Hayes Hall.

## Seminars

December 8 **Plant Breeding**, Ron Breggemann, Environmental Effects on Oil and Protein Components of High Oil and High Protein Corn Varieties, 3:30 p.m., 306 Borlaug Hall.

December 9 **Plant Biological Sciences Colloquium**, Sheila Lutz, The Settlement of **Colonist I** and **Colonist II**, None-LTR Retro Element, into an Intron of Maize Acetyl-CoA-Carboxylase, 3:30 p.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

## MICHIGAN STATE UNIVERSITY

Assistant/Associate Professor, Department of Horticulture. Ph.D. in horticulture or related field. Tenure-track, 12-month position, 30% research, 40% extension, and 30% station coordinator.

Closing date: March 1, 1998

UNIVERSITY OF MINNESOTA

Research Fellow, Northwest Experiment Station.  
Coordination, maintenance, and evaluation of a  
comprehensive spring wheat/barley disease  
screening nursery. M.S. in a plant science related  
area, must have field plot research experience, and  
strong writing and speaking abilities.

Closing date: January 15, 1998

Director of Budgeting and Financial Services,  
College of Education and Human Development,  
Minneapolis Campus. M.S. in management or  
higher education. Five years of work experience  
and operational knowledge of budget processes.

Closing date: December 15, 1997

Coordinator of Grants Management, College of  
Education and Human Development. B.A. in  
business or accounting, excellent problem solving  
skills and computer knowledge.

Closing date: December 15, 1997

UNIVERSITY OF MISSOURI

Assistant Professor, Department of Biochemistry.  
Tenure-track.

Closing date: January 21, 1998

SOUTHERN ILLINOIS UNIVERSITY

Assistant or Associate Professor in Weed Science,  
Department of Plant, Soil and General Agriculture.  
Ph.D. in weed science with relevant training in  
related fields, especially in plant physiology,  
agronomy, and statistics. Tenure-track, nine-  
month appointment.

Closing date: February 1, 1998

WASHINGTON STATE UNIVERSITY

Graduate Research Assistantship, Department of  
Crop and Soil Sciences. B.S. in agricultural or  
biological science.

Starting date: Spring 1998

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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 15, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

You are cordially invited to a retirement reception in honor of Dr. Orvin Burnside on Friday, January 9 from 3:00-5:00 p.m. in 306 Borlaug Hall. If you would like to make a donation towards a gift for Dr. Burnside, or write a letter to be included in an album to be presented to him at the reception, please send to Jeanne Davy, 411 Borlaug Hall by December 31.

Thanks to the generous gift from Dr. Rasmusson, 408 Hayes Hall has been totally redone. As this room is used for meetings and classes, please keep in mind how fortunate the department is to be able to have such a nice working environment. Let's all try to keep this space CLEAN and in GOOD ORDER.

A collection box has been placed in 411 Borlaug to deposit unwrapped toys to be given to less fortunate families to help brighten their Christmas for Toys for Tots. The collection box will be in the main office until today.

Single Quarter Leave and Faculty Development Grants Information for 1998-99 are available from Jeanne. Applications are due January 16, 1998.

The Agronomy and Plant Genetics Department's Holiday Potluck will be held this **Thursday, December 18** from 12:00 until 2:00 p.m. in 306 Borlaug Hall. Please drop off your favorite holiday dish for the potluck in 306 Borlaug Hall between 8:00-9:00 a.m. We will also be holding a food drive during this event. Please bring a nonperishable food donations. Cost will be \$2.00 per person, but if you bring a food shelf donation the cost will only be \$1.00! Everyone is invited. See you on the 18th!

Student Employment has changed their policies and procedures for hiring students. New student requisition forms are available in 408 Borlaug Hall. See Marilyn or Judy for assistance in posting your next student position.

A call has been extended for research proposals on disease resistance in cereal crops to be funded by the Lieberman/Okinow Chair for Disease Resistance in 1998. Two-year proposal will be considered. Money is available for research at Minnesota and Tel Aviv. These proposals are due January 16, 1998 and will be reviewed at the annual Lieberman/Okinow Endowed Chair meeting in late January. Grants will generally be limited to \$5,000/yr. Contact David Long at the USDA-ARS Cereal Rust Laboratory for further details or e-mail: davidl@puccini.crl.umn.edu.

Proposals are invited to support study and travel between Israel and Minnesota. They should relate to cereal pathology with emphasis on disease resistance breeding. A total of \$11,000 is available annually to support a short-term exchange of faculty, staff and graduate students from Tel Aviv University and the University of Minnesota. Proposals for 1998 are due January 16, 1998 and funds will be available in February 1998. The proposal should not exceed two single spaced typed pages and should be submitted to David Long at the USDA-ARS Cereal Rust Laboratory, 495 Borlaug Hall.

During the week of January 12-16, Facilities Management has scheduled Borlaug and Hayes Hall for building cleanup. This is a major opportunity for all Agronomy personnel to clean their offices, labs, storerooms, and classrooms, freezers and growth chambers areas. There will be no charge for any disposal of items during this week. Materials covered for disposal: Files and office paper, magazines, books, journals, electronic and scrap metal, cardboard, trash, bulky items (furniture) and research samples. Any of the above items that are outdated, broken or no used to anyone can be thrown out. For any questions, please call Mike McClellan at 4-5395.

**Brown Bag Discussions** - We do not have enough volunteers signed up for winter quarter 1998 to lead discussions. If you are willing to do this, please drop a note in Vincent Robert's mailbox (#21). Thank you!

The University of Minnesota will be closed:  
December 24, 25, and 26, 1997  
January 1, 1998

### Greenhouse Users

Monday, January 5th is a clean up/watering day.  
Thanks for your help and Happy Holidays!  
Pamela Altermatt

### Gopher Crops & Soils Club

The Gopher Crops & Soils Club elected new officers for 1998:

President - John Swanson  
Vice President - Doug Olson  
Treasurer - Scott Miller  
Recording Secretary - Tom Buller  
Corresponding Secretary - Matt Wolle  
Crops Kit Co-chairs - Melissa Huhn, Trina Nelson  
Club Photographer - Matt Druley  
Historian - Co-chair - Sharon Gerity, Matt Schleicler

The club is planning a trip to the Renville area for Saturday, January 10, 1998, to visit the sugar beet processing plant and other agri-businesses. Faculty are encourage to tell their students in their classes and students working on projects to participate in this all day event. See Dr. Cardwell for information. The club made over \$1,400.00 on their pumpkin sales and donated hundreds of pumpkins for the homecoming "Farmers Share Breakfast" decorations. Thanks to the department for their support. Ryan Lee, President

**ATTENTION STUDENT EMPLOYEES AND SUPERVISORS OF STUDENT EMPLOYEES ---**  
The due date for time sheets ending December 21 is being changed from Friday, December 19 to Wednesday, December 17.

Because December 31 falls on a Wednesday this year, all employees will receive a paycheck on December 31, 1997. My window for entering your time sheet ends 12:00 noon on Friday. Don't forget to turn in your time sheet if you want to be paid on December 31. Marilyn

### The Seven Habits of Highly Effective People 1998 Program Offering

The Seven Habits are based on a natural, sequential development. The underlying premise is that a person who achieves a high degree of self-mastery will be able to work more effectively with others over time. The Seven Habits form a conceptual framework referred to as the Maturity Continuum: Habits 1 through 3 promote self growth and help us move from dependence to independence; habits 4 through 6 help us build effective relationships and encourage us to become

interdependent; habit 7 helps us sustain the growth process over time.

If you are an employee of the University of Minnesota, a degree seeking student, or any person who is a member of the immediate family of any employee of the University of Minnesota, you are eligible to participate in the program offering.

The program will be offered: Winter Quarter, Mondays and Wednesdays, January 7 - March 9, 1998.

Time: 4:30 - 6:00 p.m.

Place: 408 Hayes Hall, St. Paul Campus.

Cost: \$67.50 Students registering through U of MN Extension for Agro 5001 (1 cr - Problems in Agronomy for Advanced Students) the cost covers the purchase of The Seven Habits participant manual only.

\$75.00 For all Non-Students cost covers the purchase of The Seven Habits participant manual and miscellaneous class expenses. Payment may be made by department CUFS# or by personal check. Payment due by the first day of class.

Presented by University of Minnesota Facilitators Roger Becker, Kent Crookston, JoAnn Lamb. Facilitators donate their time.

Class size will be limited to 70 participants on a first come, first serve basis. PARTICIPANTS MUST COMMIT TO THE ENTIRE WORKSHOP SERIES.

To register or receive more information: Contact Jean Swanson  
Phone: 612-625-2740 FAX: 612-625-1268  
E-mail: swans008@maroon.tc.umn.edu

DEADLINE: Dec. 31, 1997

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

AUBURN UNIVERSITY  
Dean, College of Agriculture and Director. Ph.D. with at least one degree in a discipline represented in the College of Agriculture and full professor rank.

Closing date: February 1, 1998

#### UNIVERSITY OF CALIFORNIA

Cooperative Extension Farm Advisor on Vegetable Crops/Weed Science. M.S. in vegetable crops, horticulture, plant science, vegetation management or closely related field is required.

Closing date: February 27, 1998

#### CORNELL UNIVERSITY

Two fellowships for Ph.D. candidates interested in molecular, cellular, and biochemical approaches to crop plant improvement.

Closing date: January 15, 1997

#### GRINNELL COLLEGE

Assistant Professor of Biology. Tenure-track. Teach introductory courses in evolution and ecology.

Closing date: December 19, 1997

#### IOWA STATE UNIVERSITY

Assistant or Associate Professor in Crop Production and Physiology. Ph.D. with emphasis in agronomic crop production, management, and physiology. Tenure-track, 75% teaching and 25% research.

Closing date: March 1, 1998

#### MICHIGAN STATE UNIVERSITY

County Extension Agriculture and Natural Resources Agent. B.S. or M.S. in crop and soil sciences. Strong leadership ability in dealing with people.

Closing date: December 31, 1997

#### MINNESOTA PROJECT

Executive Director. The person will manage the organization and a staff of six plus various interns, located in three offices. Position requires leadership as well as strong skills and experience in fundraising, financial management and communications.

Closing date: February 1, 1998

#### UNIVERSITY OF MINNESOTA

Research Fellow, Microbial Ecology and Biocontrol, Department of Plant Pathology. M.S. in biology or a related field, including at least one year of scientific laboratory experience.

Closing date: January 1, 1998

Chief Financial Officer, Carlson School of Management. B.S. and seven or more year of experience to include financial operations management and supervision. Strong background in accounting, MIS, and financial analysis.

Closing date: January 16, 1998

#### OGBA

Part-time opportunity (20 hours/week) for computer work (typing, correspondence, data entry), as well as customer service duties. Could be full-time summer job in 1998. Please submit cover letter, resume, and salary requirements to: 7362 University Avenue NE Street, 208, Fridley, MN 55432-3102.

#### RESOURCE CENTER OF THE AMERICAS

Part-time Computer Network Administrator and Webmaster. Knowledge and experience with a variety of programs, experience with the design of web sites, and excellent organizations skills.

Closing date: December 23, 1997

Director of Fund Development. Development of a comprehensive fund-raising strategy. Three- five years of experience and computers skills.

Coordinator of Adult and Community Education. Curriculum planning and coordination, maintaining student registrations and coordinating all aspects of the programs such as rooms, fees, and staffing.

Closing date: December 23, 1997

Office Manager/Receptionist. Phone answering, attending to library patrons, organizing and maintaining a filing system, and assisting the director.

Closing date: December 23, 1997

#### USDA-ARS

Research Agronomist/Soil Scientist, Dairy Forage Research Center, Madison, WI. Ph.D. in a field of science.

Closing date: January 12, 1998

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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108 (612) 625-7773  
December 29, 1997

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

Congratulations to Ron and Judy Phillips on their first grandchild. Brett and Diane Phillips had a baby girl on Friday, December 26 in Texas.

Congratulations to Nadiya Al-Saady and her husband on the birth of a baby girl born on Friday, December 19. Her name is Nawal and she weighed 6 lbs. Nawal has a little brother at home.

Congratulations to Silvia Maquieira on the successful defense of her Master's thesis on December 15.

The University of Minnesota will be closed on Thursday, January 1, 1998.

Thank you to everyone who donated food shelf items at the Holiday Potluck on December 18. One-hundred and forty pounds of food was collected and brought to the North End Community Center in St. Paul. This service helps people in the St. Paul area and all the food will go to good use.

You are cordially invited to a retirement reception in honor of Dr. Orvin Burnside on Friday, January 9 from 3:00-5:00 p.m. in 306 Borlaug Hall. If you would like to make a donation towards a gift for Dr. Burnside, or write a letter to be included in an album, please give to Jeanne Davy in 411 Borlaug Hall by Wednesday, December 31.

The Board of Regents approved a new, free-standing University-wide graduate minor in international education and it is open to all University of Minnesota graduate and professional degree-seeking students. Information about the minor is available on the website:  
<http://edpa.coled.umn.edu/IntEdu/minor.html>.  
Jean Swanson also has information at her desk.

## Weeds Discussion Group

Kim Hemmesch, Jointed Goatgrass Problem --  
Past, Present and Future, Monday, January 5 in 306 Borlaug Hall. Everyone is invited.

## Plant Breeding Seminar

Jorge Elizondo, Quantification of Drought Tolerance in Wheat and Common Bean: Grain Yield Response, Monday, January 5, 3:30 p.m., 306 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### AGREN, INC.

Agronomist based in Carroll, Iowa, covering Western Iowa. B.S. or M.S. in agriculture, two-four years of agronomy experience, and livestock experience will be beneficial.

Starting date: February 1998

### UNIVERSITY OF ILLINOIS

Visiting Extension Specialist (Weed Science-Pesticide Applicator Training), Department of Crop Sciences. B.S. or M.S. in an agricultural discipline with an emphasis in weed science is required.

Closing date: March 1, 1998

### THE MINNESOTA PROJECT

Executive Director. This person will manage the organization and a staff of six plus various interns, located in three offices. B.S. and background in public policy, planning, and public administration.

Closing date: February 1, 1998

### UNIVERSITY OF MISSOURI-COLUMBIA

Research Assistant Professor in Soybean Breeding and Genetics, Department of Agronomy. Ph.D. in agronomy, plant breeding, plant genetics, or related discipline. Non-tenure track position.

Closing date: February 1, 1998

NEW MEXICO STATE UNIVERSITY

Assistant Professor, Department of Agronomy and Horticulture. Ph.D. in horticulture. Tenure-track, 12-month appointment with 55% research and 45% teaching assignment. Research will be related to water-use efficiency, stress physiology and/or introduction of native plants to urban landscapes in the southwest.

Closing date: March 1, 1998

SOUTHERN ILLINOIS UNIVERSITY

Plant Breeder/Biometrician, Department of Plant, Soil and General Agriculture. Ph.D. in plant breeding or closely related field. Tenure-track, nine-month appointment with 50% teaching, 45% research and 5% service.

Closing date: March 1, 1998

Weed Scientist, Department of Plant, Soil and General Agriculture. Ph.D. in weed science with training in plant physiology, crop production, and statistics. Tenure-track, nine-month appointment.

Closing date: February 1, 1998

TEXAS AGRICULTURAL EXPERIMENT  
STATION

Assistant Professor in Agronomy, Agricultural Experiment Station. Ph.D. in agronomy, plant physiology or plant breeding with courses in molecular biology.

Closing date: March 30, 1998



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

January 5, 1998

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## Announcements

Mary Brakke had surgery on December 29 at Lakeview Hospital in Stillwater. Flowers were sent.

You are invited to a retirement reception in honor of Dr. Orvin Burnside this Friday, January 9 from 3:00-5:00 p.m. in 306 Borlaug Hall.

During the week of January 12-16, Facilities Management has scheduled Borlaug and Hayes Hall for building cleanup. This is a major opportunity for all Agronomy personnel to clean their offices, labs, storerooms, and classrooms, freezers and growth chambers areas. There will be no charge for any disposal of items during this week. For any questions, please call Mike McClellan at 4-5395.

If anyone has old calendars with nice pictures that you do not want anymore, please give to Lynne Medgaarden. Thank you.

## Request for Proposals

The 1998 Professional Development Program Request for Proposals for the North Central Region Sustainable Agriculture Research and Education Program, has a receipt deadline for the FY 1998 PDP Grant Competition of 5:00 p.m. on February 13, 1998. The deadline for the Coordinator/Region- Wide Training Project is 5:00 p.m. on February 20, 1998. See Jeanne for details.

USDA Biological Control Facilitation Grant Program due date is February 27, 1998. See Jeanne for details.

Biological Control Implementation Grant Program Leveraging Partnerships in Cooperation with State Agencies due date is January 30, 1998. See Jeanne for details.

## Weeds Discussion Group

Kristin Mercer, Evaluation of quackgrass "feedback evaluation," Monday, January 12 at 12:00 noon in 408 Hayes Hall.

## Plant Breeding Seminar

Claudia Castell, Molecular markers in alfalfa breeding and genetics, Monday, January 12 at 3:30 p.m. in 306 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA  
Project Coordinator, Cooperative Extension.  
Coordinate an insect pest management project on lettuce and celery.

Closing date: January 15, 1998

INSTITUTE OF SUSTAINABLE IRRIGATED AGRICULTURE  
Principal Scientist in Soil and Water, Department of Natural Resources and Environment, Victoria, Australia.

Closing date: February, 1998

USDA  
Molecular Biologist in Sugar Beet and Potato Research. B.S. in plant physiology, anatomy, molecular biology or related disciplines.

Closing date: January 12, 1998

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
January 12, 1998

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## Sympathy

Jim Stage passed away around noon yesterday. He actually never left the hospital because they could not move him on Thursday. He was diagnosed with lung cancer last July. Last Friday marked 30 years from when he started to work on the oat project. I put together a story about him that will probably be included in Minnesota Science soon. The family prefers memorials rather than flowers. There will be a service later this week here in the Cities. I will send the details as soon as I learn them. All of the children were able to see Jim before he died and he knew they were there.

Born: February 4, 1931 in Olney, Illinois.

Graduated Olney Township High School in Illinois in a class of 100 and as a member of the National Honor Society.

He took several courses at the University of Minnesota after he was hired that related to his job responsibilities. He also managed to acquire skills to operate project computers, which didn't exist as such when he began on the project.

Jim operated a dairy farm near Olney for a number of years.

He moved to Minnesota in early 1967.

Jim started working for the University of Minnesota Oat Breeding Program January 8, 1968 as an Exp. Plot Supervisor.

Promoted to Sr. Experiment Plot Supervision on October 1, 1970.

Promoted to Research Plot Supervisor on January 1, 1975.

Promoted to Research Plot Coordinator on January 1, 1986.

Retired August 1, 1994, 26 1/2 years after he began.

Jim was a dedicated, loyal and competent assistant who increasingly managed the program's field and greenhouse operations even when I was present. He supervised undergraduate students extremely well and even managed to teach most graduate students at least one or two important lessons. Except for the last few years before his retirement, he made most of the crosses in our breeding and research program, including all of our recurrent selection efforts, with only occasional help from one of the students. In the last few years the number of crosses expanded considerably and then others made a few of the crosses. Thus all of the varieties that we have released starting with 'Lyon' in 1977 and for now, ending with 'Jim' in 1996, are from crosses that Jim Stage made. The successful variety Milton is also named in his honor using his middle name.

He worked closely with Richard Halstead, USDA--ARS technician who works for my colleague, Dr. Howard Rines, since Richard joined the group. He also trained one of our undergraduate student workers, Roger Caspers, as his replacement. Jim Stage left a good footprint on our project and I thank him for it.

Jim and his wife Jeanine have 6 married children and 14 grandchildren. Deon

## Announcements

Thanks for the perky bouquet sent to me from the Department while I was in the hospital. I'm recuperating at home now while catching up on some serious reading. I'm getting a new perspective (accurate?) of our work in the College of Ag. by reading Jane Smiley's 'Moo.' The only bad part is that it hurts when I laugh. Many thanks for thinking of me.

Wishing you all well, Mary Brakke

Congratulations to Mike Olsen who has been chosen to be this year's H.K. Hayes Award Recipient.

The next Departmental Coffee will be held on Thursday, January 22 from 9:30-10:30 p.m. in 306 Borlaug Hall.  
Jim Halgerson

Today is National Clean-Off Your Desk Day! Remember that this week is Building Clean Up in Borlaug Hall. Throw out all files, papers, electronic equipment and scrap metals, magazines, journals, and books that you do not need.

No Weeds Discussion Group will be held next week. Keith Henjum will speak on Monday, January 26 on "Breeding Alfalfa for Special Uses: Biomass, Bioremediation," 12:00 noon in 306 Borlaug Hall.

The University of Minnesota will be closed on Monday, January 19 for Martin Luther King Jr. Day.

### Safety Alert

Last week a homeless person was found living in one of our storage areas. He had been there since August. He left and has not returned. U of M Police were contacted and a report was made. This has been an ongoing problem in many U of M buildings on both campuses.

This incident brings attention to the fact that all Agronomy personnel need to be constantly aware of persons who belong in and around all of our facilities. New employees need to be introduced not just in the area that they will be working in, but also in the general area such as adjoining labs, so that other employees know that these people are suppose to be in the area. All current employees need to be a little suspicious of persons coming through our facilities.

Also, this reinforces the fact that all labs, offices, greenhouses, headhouses, storage areas and Crops Research and Service Buildings need to be checked and locked after 5:00 p.m. and weekends. People who work here will have keys issued to them. This cuts down on trespassers. Also, when people leave they need to turn in their keys back to Marilyn so that we don't have keys floating around and getting into the wrong hands.

Mike McClellan

### Special Events at the South Experiment Station (1998)

January 21	Winter Crops Day (Rochester & Lewiston)
January 22	Winter Crops Day (North Mankato)
June 23	Crops and Soils Field Day
September 10	Corn and Soybean Field Day
September 11	Ag Seminar for Clergy

## Greenhouse Users

### Reminder:

The first Monday of every month is a greenhouse CLEANUP/WATERING DAY.

January 5  
February 2  
March 2  
April 6  
May 4  
June 1  
July 6  
August 3  
September 7  
October 5  
November 2  
December 7

EVERYBODY with material in the greenhouse should be sweeping and throwing out trash.

Pam Altermatt

### Seminars

January 13 Ph.D. Defense, Jodi Lew, The nonsense-mediated mRNA decay pathway affects telomeres in *S. cerevisiae*, 9:30 a.m., 306 Borlaug Hall.

Plant Biological Sciences  
Colloquium, Elizabeth Kellogg, The genetic basis of morphological systematics, 3:30 p.m., 306 Borlaug Hall.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF MINNESOTA  
Pesticide Education Program Assistant, Health, Environmental, and Pesticide Safety Programs. B.S. required, M.S. preferred. Must have excellent writing and communication skills, with expertise in desktop publishing and graphics.  
Closing date: February 1, 1998

UNIVERSITY OF NEBRASKA-LINCOLN  
Integrated Weed Management Specialist, Department of Agronomy. Ph.D. in weed science or agronomy. Experience in conducting field research.  
Closing date: January 15, 1998

TARLETON STATE UNIVERSITY  
Dean, College of Agriculture and Technology. Chief academic and administrative officer of the college with responsibility for the leadership and management of its resources including faculty, staff, facilities and budget.  
Closing date: February 1, 1998

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8/19/02

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

Phone (612) 625-7773; Fax (612) 625-1268; E-mail [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)

January 20, 1998

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Thank you

I wish to thank those that attended my retirement coffee on Friday, and especially those that worked long and hard to plan and prepare for the event as well as those making presentations. I will enjoy the rocking chair and reading the many kind letters. It was great not having to come to work Monday when the weather was less than Minnesota nice. Best wishes. Orvin Burnside

Thank you for the beautiful bouquet sent to me from the department on the birth of my baby girl Nawaal. Also, thanks to the Grad Club and all who sent me cards. My family and I really appreciated it. Nadiya

## Announcements

A Departmental Coffee will be held on Thursday, January 22 from 9:30-10:30 a.m. in 306 Borlaug Hall. Come and enjoy your friends and colleagues and have some coffee, juice and goodies. Hope to see you there!!

Retired Faculty & Staff volunteer your service to units of the University to assist in various functions for which funding is not available. The Retirees Volunteer Center is sponsored by the University of Minnesota Retirees Association, and is unique in the Big Ten Conference. We wish to remind you about the Center and the availability of its volunteers to fill both old and new kinds of needs. The Center office is at room 105 Health Services Building, 1518 Cleveland Avenue, St. Paul, phone number 625-4700. Volunteers are in the office each weekday morning from 9:00 a.m. to 12:00 noon.

Minnesota Landscape Arboretum Events:  
Teatime at the Garden--The popular traditional English afternoon tea will return to the Minnesota Landscape Arboretum on Wednesdays. Enjoy several wonderful teas and taste many delicious finger foods and sweets. Cost is \$10.00 per person; prepayment secures reservation. Call 612-443-2460, for more information and to make a reservation.

For Rent: One Bedroom Apartment. Open March 1. Rent: \$350 Heat, water included. One mile walking distance from St. Paul Campus on Fairview/ Roselawn. Call 646-2445.

## Note from Jean-Luck Jannink

First impressions of La Estanzuela

As you may know, I am interning in Uruguay for ten weeks. Deon asked me to write a little travelogue, destined for our Gleanings. Deon is one of many who hope that the U's connection with Uruguay will grow stronger over time. For those of you in Minnesota who know more of Uruguay than I do, please forgive my sometime mistaken rambling and romanticizing. La Estanzuela is the flagship experiment station of Uruguay's Instituto Nacional de Investigacion Agropecuaria (INIA). I have been received generously here. My first day here was consumed by introductions such that people here know my face and help in whatever way possible. First impressions come through the palate and the stomach. The cafeteria here probably seats 40. But it is cozy enough to feel like one's own dining room and it has been the best place for me to develop personal contact with people. My guess is the cafeteria and the lunches served there are important to the cohesion one feels at the experiment station. Meat and milk are staples of the Uruguayan diet. Apparently, when Spaniards first arrived, they released cattle onto the grasslands of Uruguay such that upon their return, a couple decades (?), large herds roamed freely here. This abundance of meat was such, I am told, that despite many miles of coastline, fish has never entered the local diet.

Buen provecho!  
Jean-Luc

(Jean-Luc can be reached at [tabadie@inia.org.uy](mailto:tabadie@inia.org.uy)).

## Graduate School Grant Received

William Lueschen, Native Perennial Legumes to Diversify Cropping Systems. \$12,000.

- Special Events at the  
Southern Experiment Station (1998)**
- January 21 Winter Crops Day (Rochester & Lewiston)  
January 22 Winter Crops Day (North Mankato)

UNIVERSITY OF TENNESSEE  
Specialist in Plant and Soil Science, Agricultural Extension Service. Ph.D. in soil science or a closely related discipline with training in soil chemistry, soil fertility and soil microbiology.  
Closing date: January 27, 1998

**Weeds Discussion Group**

Keith Henjum, Breeding alfalfa for special uses: Biomass, bioremediation, Monday, January 26, 12:00 noon in 306 Borlaug Hall.

**Seminars**

- January 26 **Plant Breeding**, Dennis Byron, Technology integration in commercial variety development, 3:30 p.m., 306 Borlaug Hall.
- January 27 **Plant Biological Sciences Colloquium**, Franz de Bruijn, Novel nodulin genes and symbiotic mutants in the model legume lotus japonicus, 3:30 p.m., 306 Borlaug Hall.

**Position Announcements**

(Posted in notebook in 411 Borlaug Hall)

**DANA COLLEGE**

Assistant Professor in Mathematics. Ph.D. and background or experience in computer science or math education. Tenure-track.

Closing date: February 20, 1997

**IOWA STATE UNIVERSITY**

Associate or Full Professor of Agronomy, Soil Chemistry, Department of Agronomy. Ph.D. in soil chemistry, geochemistry, or chemistry. Research 70% and Teaching 30%.

Closing date: May 1, 1998

**UNIVERSITY OF MINNESOTA**

Director, College of Liberal Arts. Position is available to U of M tenured faculty at the rank of Associate Professor or Professor.

Closing date: January 28, 1998

**MONSANTO**

Two individuals to work on their rice team. B.S. in biological sciences or related field is required. Strong laboratory skills and three-five years of experience working with one of the following: plant cell culture, genetic transformation, microbiology, or molecular biology.

**MONTANA STATE UNIVERSITY**

Dean and Director of Cooperative Extension Service. Ph.D., record of outreach, teaching and/or research, and experience working in extension service.

Closing date: February 1, 1998

miw  
8/19/98

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

January 27, 1998

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Sympathy

Nancy Ehlke's father died yesterday morning, January 26. He had cancer for four years and was 72 years old.

## Announcements

A farewell coffee will be held for Luiz Federizzi on Friday, January 30 at 3:00 p.m. in 408 Hayes Hall. Everyone is invited to come.

As of January 1, 1998, mileage rate reimbursement was raised to 32.5 cents/mile.

The graduate student photo board by the Agronomy office is being updated. I will be stopping by all grad offices to take new photos of all the graduate students the week of January 26, 1998. Teresa Schoeder

Career services: Students are encouraged to participate in the campus recruiting program for both intern and full-time positions. Employers will be visiting campus during the next six weeks to conduct job interviews. This is the time to look for jobs. Get in touch with Jean Underwood, Director, Career Services at 120 Bio Ag Eng or jmunder@tc.umn.edu. Also, take a few minutes to visit their Web site ([www.coafes.umn.edu/career](http://www.coafes.umn.edu/career) - password is gopher and cs4u). All jobs received by the office plus our recruiting calendar are posted. Students can complete the resume form via the web page also.

I am a student in Urban Forestry. I am looking for employment not necessarily related to this field. Some of the areas I would be interested in include: plant propagation, integrated pest management, ecology, greenhouse work, soil science, wildlife, etc., any research positions or jobs related to plants or the environment. Please call Shawn Markham at 639-9908 or e-mail: mark0051@gold.tc.umn.edu.

## Note from Jean-Luc Jannink

Hi friends -- Not much of a "travelogue" for this week. I have discovered that being away from home and its distractions (mostly good and important ones, but distractions nevertheless), allows you to be intensely involved with whatever project that led you to travel. My last week was devoured by the writing of computer simulations of selection methods. I have little to report on Uruguay and what a peculiar corner of the world it is. One peculiarity that I can report: it is expected (it seems) of all Uruguayans that they take a solid four-week vacation at some point during the summer. Thus, a few familiar faces from the cafeteria have disappeared between last week and this week: they are 'de vacaciones'.

[Parenthetically, I finally managed to notice that, in that very cafeteria, University of Minnesota 'Golden Gophers' and Iowa State 'Cyclones' pennants hang opposite each other. Maybe I'm not so far from home after all...] This Uruguayan practice has been salutary to my computer efforts as I have been able to occupy several computers at a time (their normal users being away) with simulation runs. Anyway, here's my thought-for-the-week: if there is some project that you think would do you good before you get your degree, but it makes little sense to try to cram it into an already overloaded schedule, figure out who does it the best in the world and find funds to go there for a few weeks. Salud! Jean-Luc

[Erratum on last week's note: after their initial visits to Uruguay in the 16th century, the Spaniards only returned after about two \*\*centuries\*\*.]

## Weeds Discussion Group

John Gronwald, Factors influencing the effect of pseudomonas on host and non-host species, Monday, February 2 at 12:00 noon in 306 Borlaug Hall.

### Seminars

February 2 Plant Breeding, Jennifer Folstad, Apomixis, 3:30 p.m., 306 Borlaug Hall.

February 3 Plant Biological Sciences Colloquium, Gary Muehlbauer, The maize homoobox gene liguleless 3 and developmental timing, 3:30 p.m., 306 Borlaug Hall.

**For Sale:** Motobecane Jubile Sport, 12-Speed Racing Bike (23.8 lbs.) (\$200.00); 1980's Washburn Force 2 Electric Guitar (\$175.00); 1988 Plymouth Horizon (\$300). Please call Erik Levorson at work: 625-1784, home: 649-1674, or e-mail: levor002@tc.umn.edu.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### MICHIGAN STATE UNIVERSITY

County Extension Director, St. Joseph County. B.S. or M.S. in horticulture, agronomy or agricultural economics.

Closing date: February 2, 1998

#### UNIVERSITY OF NEBRASKA-LINCOLN

Postdoctoral Associate - Population Ecologist, Department of Agronomy. Ph.D. in range science, biological sciences, agronomy or related discipline.

Closing date: March 15, 1998

#### VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Research Associate, Integrated Pest Management, Department of Plant Pathology, Physiology and Weed Science. M.S. in plant sciences or crop protection with IPM experience.

Closing date: March 1, 1998

mcc  
Page

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
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February 3, 1998

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

I am starting to take 1998 Field Requests, Chemical Requests, Fertilizer Orders and any other special field needs. Mike McClellan

### Notice of Next Cleanup Campaign:

The week of March 2-6, the following buildings are scheduled for the U of M Cleanup Campaign:

Crops Research, Crops Service, Seedhouse,  
Greenhouses including Headhouses, USDA  
Forage Lab, and Crop Improvement.

People who work and store materials of all kinds in these areas need to analyze what items can be thrown out at this time.

Items that are on the list include journals, files, catalogs, computers, lab equipment, office equipment and office furniture that is outdated, broken or hasn't been used in the last five years or more.

Also, all projects that have materials in dryers, freezers, and cold rooms better check to make sure samples are labeled and dated. If not, samples will be thrown out.

Chemicals and Hazardous waste are not included in this cleanup. Use current procedures for getting rid of this waste. Mike McClellan

## Seminars

February 9 Plant Breeding, John McLaughlin,  
Endophyte associations, 3:30 p.m.,  
306 Borlaug Hall.

February 10 Plant Biological Sciences  
Colloquium, Lucinda McDade,  
Hybridization: Phylogenetic  
conundrum, evolutionary mode,  
3:30 p.m., 306 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### HARTFORD FOOD SYSTEM

Sustainable Agriculture Internship. Work and educate visiting groups of all ages, 50-60 hours a week involved in all aspects of organic production of vegetables.

Closing date: March 30, 1998

### MICHIGAN STATE UNIVERSITY

Graduate Teaching Assistanship in Turfgrass Management, Department of Crop and Soil Sciences. Ph.D. or M.S. degree.



# Agronomy Gleanings

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February 9, 1998

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## Thank you

Dear Colleagues,

Thank you very much for the beautiful flowers sent to my family when my father died. It was very nice being remembered at such a difficult time. I would also like to thank everyone for the kind words and cards I have received since I returned to work. Thank you for everything.

Sincerely, Nancy Ehlke

Thank you for the beautiful flowers that the department sent to me in the hospital. They brightened my room and speeded my recovery! Your thoughtfulness was greatly appreciated.

Ruby Larson

## Announcements

Starting February 16 and continuing through March 27, all common areas of Borlaug Hall (hallways, bathrooms, elevators, etc.) will be painted. Bulletin boards must be removed from walls prior to painting. Wood doors will be sanded and varnished so these surfaces must be cleared of any material. If there are any days during this timeframe that will cause a disruption to anyone, please let me know. Also, if anyone has any allergies to paint and/or varnish materials, there will be Material Safety Data Sheets available on the materials to be used. If you have any questions or concerns, see me. Thanks for your cooperation. Jeanne Davy

During the month of February, Tim Page from Inventory Services will be conducting a room-to-room physical inventory of all capital equipment. This will include Borlaug Hall, Hayes Hall and all greenhouses. If you have any questions, please contact Jeanne or Judy.

Reminder that the Civil Service Excellence Award nominations and supporting letters are due to Sheri Huerd by 12:00 noon on Friday, February 27.

All those persons who do services and charge for it - either inside or outside the University, need to come to a meeting on Wednesday, February 18 from 9:00-10:30 a.m. in Room 408 Hayes Hall. New rules and regulations will be discussed.

Judy Slyter

**DEPARTMENTAL FORUM** - discussing the future of agriculture and the role of Land Grant Universities in the next century.

Dr. Donald Duvick - Friday, February 20, 1998  
and Dr. Katherine (Kitty) Smith - Wednesday, March 4, 1998.

The forums will be held at 1:30 p.m., Room 306 Borlaug Hall for students, staff and faculty of the Agronomy & Plant Genetics Department. Refreshments will be served.

This is an informal opportunity to interact with the speakers and members of our department envisioning our future leadership role in agriculture for the next century. Both speakers will present their "Perceptions on the Future of Agriculture and The Role of Land Grant Universities in the Next Century," at 10:30 a.m. in the Student Center Theater on their respective dates.

Speakers and Departmental Forum sponsored by the Northrup King Development Committee, Department of Agronomy & Plant Genetics  
Marilyn Swanson

## Brown Bag Discussion

A discussion will be held on Friday, February 13 at 12:00 noon in 306 Borlaug Hall on "Highlights of the Plant & Animal Genome VI" (San Diego, CA, January 18-22, 1998).

## Weeds Discussion Group

Dana Blumenthal, Canada Thistle, Monday, February 16 at 12:00 noon in 306 Borlaug Hall.

## Note from Jean-Luc Jannink

Sundry Celestial Sights in the Southern Hemisphere.

Hello friends -- E-mail connections were bad last week; I hope no one missed my report. A major hope in coming to the Southern Hemisphere was that my expectation of seeing water swirl down the drain in the other direction would be fulfilled. But in fact the sky has been more generous than the sink in its revelations. I'm sure these revelations will seem obvious. But there you go, I wasn't expecting them. The first is that the sun keeps to the northern part of the sky. I actually spent a couple trying to keep my water bottle cool on the north side of a shade tree, to no avail. The second is that constellations are upside down (for those of you who feel they are upside down in the Northern Hemisphere, my apologies). When I first arrived, I was so pleased to see Orion's belt making its way through the firmament. Then I realized that Orion's sword was dangling UP from his belt... The third is that when the crescent of the moon forms a C-shape (rather than a D-shape), it is waxing not waning. In the Spanish of South America, the moon tells the truth: C stands for "crecer," to grow, while D stands for "decrecer," to diminish. I suppose that means the moon lies in Spain... Finally, the evening air at La Estanzuela is decorated by incredible numbers of fireflies, or "bicho de luz," that turn the bushes and lawns into delightful winking and blinking spectacles. I asked an entomologist here about them. Little is known. There are, to be precise, 14 entomologists in all of Uruguay, 5 at INIA and 9 at the University, and other insects seem to have more priority, if not charm. Happy Day! Jean-Luc

### Notice of Next Cleanup Campaign:

The week of March 2-6, the following buildings are scheduled for the U of M Cleanup Campaign:

Crops Research, Crops Service, Seedhouse, Greenhouses including Headhouses, USDA Forage Lab, and Crop Improvement.

People who work and store materials of all kinds in these areas need to analyze what items can be thrown out at this time.

Items that are on the list include journals, files, catalogs, computers, lab equipment, office equipment and office furniture that is outdated, broken or hasn't been used in the last five years or more.

Also, all projects that have materials in dryers, freezers, and cold rooms better check to make sure samples are labeled and dated. If not, samples will be thrown out.

Chemicals and Hazardous waste are not included in this cleanup. Use current procedures for getting rid of this waste. Mike McClellan

### Seminars

February 16 Plant Breeding, Mike Olsen, Hybridization array technology: Current uses and potential applications, 3:30 p.m., 306 Borlaug Hall.

February 17 Plant Biological Sciences Colloquium, Eric Richards, DNA methylation and epigenetic information in the genome, 3:30 p.m., 306 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF ARKANSAS

Research Assistant/Associate Professor, Department of Agronomy. Ph.D. in plant breeding and genetics, experience with rice and molecular breeding are desirable. Nontenure-track  
Closing date: April 30, 1998

#### IOWA STATE UNIVERSITY

Field Specialist/Crops, Department of Agronomy. M.S. in a field related to crop production such as agronomy, crop science, soil science, entomology or plant pathology. Three years of experience required. Farm background preferred.

#### KANSAS STATE UNIVERSITY

Extension Specialist in Crops and Soils, Department of Agronomy. Ph.D. in agronomy and experience in extension education programs.  
Closing date: April 16, 1998

Assistant Professor/Research Crop Scientist, Western Kansas Agricultural Research Centers. Ph.D. in crop science or closely related area with emphasis on crop physiology ecology and management.

Closing date: May 30, 1998

#### PURDUE UNIVERSITY

Extension T by 2000 Education Specialist, Department of Agronomy. B.S. or M.S. in agricultural education, agricultural economics, agronomy, or other agriculture-related field.

Closing date: March 20, 1998

# Agronomy Gleanings

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University of Minnesota

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February 17, 1998

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## Congratulations

At the 1998 meetings of the Weed Science Society of America (WSSA), the Outstanding Paper in Weed Science award was given to Frank Forcella (USDA/ARS at Morris and adjunct faculty member), Rob King (Applied Economics), Scott Swinton, Doug Buhler, and Jeff Gunsolus. The paper is entitled: Multi-year validation of a decision aid for integrated weed management in row crops.

Also, Alan Dexter our sugar beet weed scientist received the WSSA Fellow Award as did a former faculty member Charlotte Eberlein.

## Announcements

**ALERT:** We are having security problems again. Labs in Crops Research are having items stolen at night. Also, there was a bike stolen out of the Weeds Lab. Both of these incidents have been reported to the U of M police.

All Agronomy staff in all buildings and greenhouses need to keep their work areas locked when they leave even if it is for a short period of time.

Keep an eye out for people that do not seem to belong around here, especially late at night.

Also, keep your personal items locked in a desk, file cabinet or locked room. Any questions, please call Mike McClellan at 4-5395.

Civil Service Excellence Award nominations and supporting letters are due to Sheri Huerd by 12:00 noon on Friday, February 27.

I need land, fertilizer and chemical requests for the coming season by March 1, if possible. Also, any special need requests such as location or what was the previous crop.

Reminder that March 2-6, 1998 is the dates for the U of M cleanup campaign for Crops Research, Crops Service, Head House greenhouses, Weeds Lab, storeroom, coolers, freezer and seedhouse.

Any questions, please call Mike McClellan at 4-5395.

Graduate School Grant-in Aid Research Program deadline is March 2, 1998. See Jeanne for information and/or forms.

US West's online White and Yellow pages' address is <http://usw.four11.com>. Both the White or Yellow Pages or other search options are available. Type in the relevant information and seconds later you have your number. Bookmark this site for quick reference! The 1998-99 Minneapolis phone books will be delivered at the end of March 1998.

A 1998 Worldwide Hotel Directory and Travel Guide is available for use in the MISA office.

## Special Seminar

"PERCEPTIONS ON THE FUTURE OF AGRICULTURE AND THE ROLE OF LAND GRANT UNIVERSITIES IN THE NEXT CENTURY."

DATE: FRIDAY, FEBRUARY 20  
PLACE: ST. PAUL STUDENT CENTER  
THEATER  
TIME: 10:30 A.M.

Seminar speaker will be...

Dr. DONALD DUVICK former Senior Vice President of Research, Pioneer Hi-bred International, Inc. and past president of the American Society of Agronomy. Currently, he is an affiliate Professor of Plant Breeding at Iowa State University. His 40-year professional career was dedicated to the development of superior corn hybrids. He was the leader in the reorganization of Pioneer's global plant breeding activities to provide functionally unified efforts for increased efficiency in hybrid and variety development.

DEPARTMENTAL FORUM  
DATE: FRIDAY, FEBRUARY 20  
PLACE: 306 BORLAUG HALL  
TIME: 1:30 P.M.

This is an informal opportunity to interact with DR. DONALD DUVICK and members

of our department envisioning our future leadership role in agriculture for the next century. All students, faculty, and staff of the Agronomy & Plant Genetics Department are invited to attend. Refreshments will be served.

Speaker and forum sponsored by the Northrup King Development Committee.

Marilyn (Hole) Swanson

### **Brown Bag Discussion**

No Brown Bag Discussion this week due to conflict.

### **Weeds Discussion Group**

Liz Stahl, Herbicide Use and Crop Injury, Monday, February 23 at 12:00 noon in 306 Borlaug Hall.

### **Note from Jean-Luc Jannink**

I think scientists are independently minded. To take a romantic view, a person becomes a scientist partly because she is willing to strike out into the unknown, alone, and guided mostly by her own wits. But the scientist is supported in her activity by an institution, either public or private, and that institution can reasonably expect the scientist to help it in furthering its goals. The question then becomes, how can institutions cajole freedom-loving scientists toward goal-oriented work? You must now wait with baited breath for a comparative analysis of United States and Uruguay agricultural research institutions; the topic is worth a start though I am not the one to do it justice. The U.S. system might be called a "free market with incentives" system. The institution exerts direct control by who it hires (e.g., a molecular or quantitative geneticist). Thereafter, indirect control is exerted by the funding environment (or incentives) in which the process of "publish or perish" takes place (e.g., more funding for molecular than quantitative geneticists means more of the former survive). At INIA Uruguay, publish or perish is not the law. But INIA has specific mandates: 50% of INIA's operating funds come from a tax on agricultural exports, and therefore out of farmers' pockets. In consequence, half of INIA's "Junta Directiva" is made up of representatives of farmer interests. INIA's project areas are well defined and goal-oriented: a five-year plan, about half the width of St. Paul's white pages, describes down to the experiment what each researcher is doing. In the development of the five-year plan, I imagine politics decide the balance between individual scientist versus institutional priorities.

Happy Researches... Jean-Luc

### **New Payroll Information**

In an effort to provide you with improved information, Payroll Services has made some changes to the DEDUCTIONS section of your paycheck. If you receive your pay through direct bank deposit, you can find these changes on the Statement of Earnings and Deductions. If you receive your paycheck directly, you can find these changes on your paycheck stub.

#### Tax Withholding

The first change relates to federal and state income tax withheld from your pay. Two disclosures have been added in this section. "Add Fed Inc Tax" reports any additional fixed dollar amount of federal income tax withholding you requested on your Form W-4 for each pay period. "Add State Inc Tax" reports any additional fixed dollar amount of state income tax withholding you requested on your Form W-2 for each pay period. To make a change to the additional dollar amount being withheld, complete a W-4 indicating the new amount on line 6. To stop the additional dollars from being withheld, indicate zero dollars on line 6 of Form W-4. A new dollar amount on line 6 of Form W-4 replaces the current "additional income tax withholding" amount.

Please note the year-to-date (YTD) income tax withholding amounts for the "additional income tax withholding" are not separately reported but are combined and reported in the second column with "Fed Inc Tax" and "State Inc Tax," respectively.

#### Loan Balance

Many of you have taken advantage of the loan program associated with the conversion to bi-weekly payroll. If you do participate in the loan program, you will see a disclosure of your loan balance as of the end of the prior pay period in which a deduction was taken. The balance does not reflect the loan repayment made during the current pay period. The disclosure reads "LOAN BALANCE AS OF (date of prior deduction and dollar balance)."

## Seminars

- February 23 Plant Breeding, Julie Overom,  
Benefits of a congruity  
backcrossing scheme in  
interspecific hybridizations of  
*Phaseolus*, 3:30 p.m., 306 Borlaug  
Hall.
- February 24 Plant Biological Sciences  
Colloquium, Lifang Shi,  
Asparagine synthetase:  
Characterization of the gene and  
expression in nodules and leaves,  
3:30 p.m., 306 Borlaug Hall.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### AUBURN UNIVERSITY

Postdoctoral Research Plant Physiologist,  
Agronomy and Soils Department. Ph.D. in botany,  
plant physiology, agronomy or horticulture. A  
knowledge of both grass and tree physiological  
processes is preferred.

Closing date: April 1, 1998

### LOUISIANA STATE UNIVERSITY

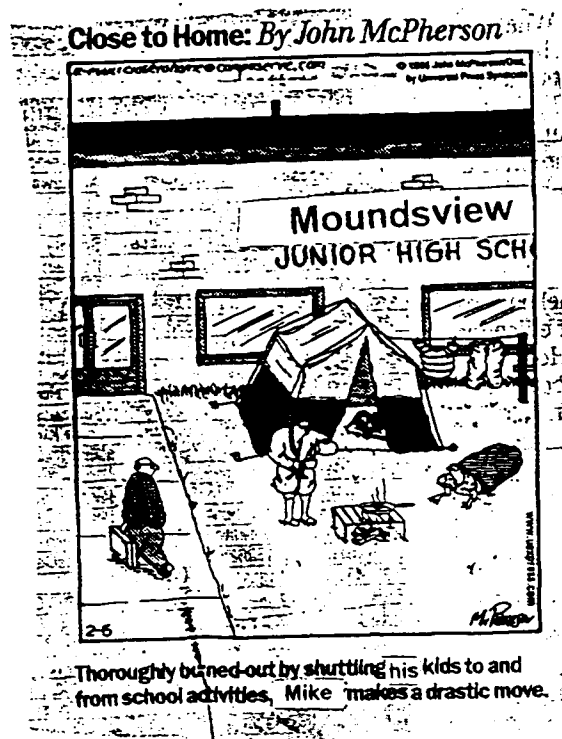
Assistant Professor, Department of Experimental  
Statistics. Ph.D. with strong background in  
applied statistics, statistical research and  
consulting to agriculture.

Closing date: April 15, 1998

### USDA-FOREST SERVICE

Biological Science Technician (Plants), North  
Central Forest Experiment Station, St. Paul.

Closing date: February 28, 1998



# Agronomy Gleanings

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February 23, 1998

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## Announcements

Reminder that the Civil Service Excellence Award nominations and supporting letters are due to Sheri Huerd by 12:00 noon this **Friday, February 27.**

Request for Proposals:  
Information Technology Subcommittee, Minnesota State Colleges and Universities and University of Minnesota Distance Learning Initiative. The Minnesota State Legislature has provided funding to sponsor collaborative efforts by the public colleges and universities of Minnesota to enhance the use of technology and distance education in higher education. This Request for Proposal (RFP) is due by 4:00 p.m. on March 15, 1998. See Jeanne for details.

SARE Competitive Producer Grant Program deadline is May 1, 1998. See Jeanne for details.

The Small Grants Program for Technology Enhanced Learning. Sponsored by the Executive Vice President and Provost's (EVPP) Office. To encourage and reward innovation for faculty involved in developing and implementing technology enhanced learning initiatives, particularly those developed for resident learners that also serve distance learners. Grants of up to \$10,000 are available to faculty in all units on all campus. Due to the Vice Provost office by March 1, 1998. See Jeanne for details.

## Seminar Schedule for Candidates for Wheat Breeding Position

Seminar Room - 306 Borlaug Hall

February 27 8:30-10:00 a.m. Blair Waldron  
March 6 9:30-11:00 a.m. Jackie Rudd

## Weeds Discussion Group

Gregg Johnson, Weed research at the Southern Experiment Station, 12:00 noon, 306 Borlaug Hall.

## Special Seminar

SEMINAR: "PERCEPTIONS ON THE FUTURE OF AGRICULTURE AND THE ROLE OF LAND GRANT UNIVERSITIES IN THE NEXT CENTURY."

DATE: WEDNESDAY, MARCH 4, 1998  
PLACE: ST. PAUL STUDENT CENTER THEATER  
TIME: 10:30 A.M.

Seminar speaker will be...

Dr. KATHERINE (Kitty) SMITH, Director of the Market & Trade Economics Division of USDA's Economic Research Service, an agency that generates information and analysis vital to enhanced performance of the food and agricultural systems of rural America. Her principal areas of expertise are policy analysis, particularly with respect to agricultural and resource policies, and the relationships among agricultural production, trade, and environmental quality. For three years prior to her current position she was Policy Studies Program Director for the Henry A. Wallace Institute for Alternative Agriculture.

## DEPARTMENTAL FORUM

DATE: WEDNESDAY, MARCH 4, 1998  
PLACE: 306 BORLAUG HALL  
TIME: 1:30 P.M.

This is an informal opportunity to interact with DR. KATHERINE (KITTY) SMITH and members of our department envisioning our future leadership role in agriculture for the next century. All students, faculty, and staff of the Agronomy & Plant Genetics Department are invited to attend. Refreshments will be served.

Speaker and forum sponsored by the Northrup King Development Committee.

Marilyn (Hole) Swanson

### Note from Jean-Luc Jannink

A couple vignettes from last week. First, I went to a talk oriented to producers discussing the marketing of grain (primarily corn, wheat, and oil-seed crops -- the main oil-seed crop here in Uruguay is sunflower) on the global market. I did not understand most of the talk but I think I understood this. The globalization of markets is having interesting consequences for producers in the Southern Hemisphere. First, market globalization and trade agreements mean that governments subsidize agriculture less. Since subsidies per unit of production are decreasing, farmers have less incentive to overproduce and world stocks of grain are in decline. In turn, because stocks are lower, there is more seasonal fluctuation in the price of grain. About 90% of the earth's arable land is in the northern hemisphere and 10% in the southern hemisphere. That imbalance means that global seasonal price fluctuation follows the seasons of the Northern Hemisphere. But when grain is scarce in the north it is precisely when it is abundant in the south. Farmers down under should be able to capitalize on the fact that they live in a hemisphere with more ocean and less land... Second, beef production on pasture is common here in Uruguay and interesting agreements arise between animal and crop farmers. Crop farmers may rent land from animal farmers. At the end of a two or three-year cropping cycle, new pastures are established under small grains. Because of competition between the small grains and the pasture species, years that are good for the one are often bad for the other and vice versa. The rent that the crop farmer pays for the land is scaled according to the yield of the small grain: the animal farmer will receive greater compensation for the land if the newly established pasture on it is of poor quality, but smaller compensation if the pasture is of high quality. Thus, the agreement is arranged so that both farmers have a stake in the well-being of the system as a whole. My apologies if I have bored you by flaunting my ignorance of practical matters in agriculture. Jean-Luc

### Brown Bag Discussion

Mike Olsen, Highlights of the Heterosis Conference, CIMMYT 1997. The discussion will be held on Thursday, February 26 at 12:00 noon in 213 Borlaug Hall. Please note the change to Thursday and room number due to conflict on Friday.

### Greenhouse Users

THIS IS A REMINDER THAT MONDAY, MARCH 2 IS A CLEAN UP/WATERING DAY. ALL GREENHOUSES ARE TO BE SWEPT. WEEDS ON THE BENCHES AND IN THE POTS NEED TO BE REMOVED--THIS INCLUDES NW. ALL THE TRASH SHOULD BE DISPOSED OF.

This is also the beginning of our building clean up. Please check all storage areas including the greenhouses and dispose of those items that are no longer being used. If you need help, please call Mike.

Thanks for your help and cooperation.

Pamela Altermatt

### Seminars

March 2 Plant Breeding, Cristine Handel, Crosses between cultivated and wild species: Can we assess all risks?, 3:30 p.m., 306 Borlaug Hall.

March 3 Plant Biological Sciences Colloquium, Don McCarty, Genetic control of ABA synthesis and perception in the developing seed, 3:30 p.m., 306 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

COLORADO STATE UNIVERSITY  
Research Associate, Department of Horticulture and Landscape Architecture. B.S. or M.S. in horticulture, agronomy, or closely related field.  
Closing date: March 31, 1998

UNIVERSITY OF MISSOURI  
Postdoctoral position available immediately to work on cytokinin oxidase in maize.

MYCOGEN SEEDS  
Agronomist, Technical Services/Commercial Development. Ph.D. in agronomy, genetics, entomology, plant pathology or related fields. Two years experience in research or sales/marketing environment.

UNIVERSITY OF SASKATCHEWAN  
Pulse Crop Breeder, Crop Development Centre. Ph.D. in applied plant genetics, plant breeding or a closely related field.

Closing date: March 31, 1998

miw  
JAgilea

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
March 2, 1998

The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.

## Announcements

To the Faculty and Staff,

The basket of beautiful spring flowers you sent in honor of Nancy's father meant a lot to her. Your kindness was greatly appreciated by Nancy and her family. Sincerely, Norma Ehlke

Lab Fest '98 will be held two days again this year on April 8 at the Radisson Metrodome in Minneapolis and April 9 at the North Star Ballroom in St. Paul. Approximately 60 scientific vendors and U of M departments with lab services will be available. Grand prizes and door prizes will be part of the activities.

Reminder that the Cleanup Campaign for Crops Research, Crops Service, Head House greenhouses, Weeds Lab, all storerooms, coolers, freezers and seedhouse is going on this week. For any questions, please call Mike McClellan at 4-5395.

The next Departmental Coffee will be held on Tuesday, March 10 in 306 Borlaug Hall at 9:30 a.m. Everyone is invited.

The Agronomy Grad Club would like to invite you to join us for the Annual Charity Soup Lunch. We will have a selection of wonderful soups donated by members of the department. All of the proceeds from the lunch will be donated to the Second Harvest St. Paul Food Bank. Second Harvest acts as a distributor to food shelves in the area. They purchase large lots of food (like mislabeled boxes of cereal) at low prices and then distribute them to food shelves. If you would like to donate a soup please contact Joann Mudge at 625-2221 or mudge002@gold.tc.umn.edu. We are asking for a \$3.00 donation or \$1.00 if you donate a soup.

Please join us!  
Wednesday, March 11  
11:45 a.m. - 1:00 p.m.  
306 Borlaug Hall

## Seminar Schedule for Candidate for Wheat Breeding Position

Jackie Rudd, Spring Wheat Breeding at South Dakota State University, Friday, March 6 from 9:30 to 11:00 a.m. in 306 Borlaug Hall.

## Weeds Discussion Group

James Orf, Discussion, Round-up Ready Beans, 12:00 noon, 306 Borlaug Hall.

## Special Seminar

SEMINAR: "PERCEPTIONS ON THE FUTURE OF AGRICULTURE AND THE ROLE OF LAND GRANT UNIVERSITIES IN THE NEXT CENTURY."

DATE: WEDNESDAY, MARCH 4, 1998  
PLACE: ST. PAUL STUDENT CENTER THEATER  
TIME: 10:30 A.M.

Seminar speaker will be...

Dr. KATHERINE (Kitty) SMITH, Director of the Market & Trade Economics Division of USDA's Economic Research Service, an agency that generates information and analysis vital to enhanced performance of the food and agricultural systems of rural America. Her principal areas of expertise are policy analysis, particularly with respect to agricultural and resource policies, and the relationships among agricultural production, trade, and environmental quality. For three years prior to her current position she was Policy Studies Program Director for the Henry A. Wallace Institute for Alternative Agriculture.

DEPARTMENTAL FORUM  
DATE: WEDNESDAY, MARCH 4, 1998  
PLACE: 306 BORLAUG HALL  
TIME: 1:30 P.M.

This is an informal opportunity to interact with DR. KATHERINE (KITTY) SMITH and members of our department envisioning our future leadership role in agriculture for the next century. All students, faculty, and staff of the Agronomy & Plant Genetics Department are invited to attend.



Refreshments will be served.

Speaker and forum sponsored by the Northrup King Development Committee.

Marilyn (Hole) Swanson.

### Note from Jean-Luc Jannink

The research structure at INIA. I touched on this briefly a couple weeks ago but delve into it a bit more this week. In terms of physical organization, INIA administers five experiment stations. In terms of research organization, activity is divided into four areas: animal production, crops, horticulture and forestry. Each research area has a coordinator who oversees work within his/her area at all the experiment stations. Each research area, in turn, is divided into programs that are oriented toward specific products. Within the crop research area, for example, there are four programs: winter crops (oats, barley, wheat), summer crops (maize and oil-seed crops), rice (rice) and crops evaluation (national variety testing program). From a systems perspective, the organization seems appealing: rather than breaking up research into disciplines, each with their reductionist focus, researchers are grouped into teams that seek to address problems in specific areas of farmer production. I have heard some debate though. One scientist at least would like the possibility of a stronger disciplinary focus. Presumably there is value to being able to focus with peers on the foundational questions of a discipline. The division of research into areas and programs also can lead to groupings that might seem odd: the forage plant breeder here is actually a member of the animal production area, several lines of division removed from other plant breeders. A separate facet of the division is that it allows for executive flexibility in allocating research funds. The different areas represent the following percentages of the total sales: animal production: 45%; crop production: 25%; horticulture: 20%; forestry: 10%. Research allocations are as follows: animal production: 35%; crop production: 20%; horticulture: 35%; forestry: 10%. Apparently, the Junta Directiva views horticulture as an area of great future interest.

Take care now, Jean-Luc

### Brown Bag Discussion

Dr. Dwight Brown

Looking Forward and Backward to Understand  
Global Climate Change

Thursday, March 5, 12:00 noon  
408 Hayes Hall

Please note on your calendar as someone outside our department has volunteered to lead a discussion. Also, the discussion will be on Thursday due to conflict on Friday.

### Greenhouse Users

TODAY is a clean up/watering day.

### Seminars

March 9

Plant Breeding, Claudia Castell,  
Molecular markers in alfalfa  
breeding and genetics, 3:30 p.m.,  
306 Borlaug Hall.

March 10

Plant Biological Sciences  
Colloquium, Natasha Raikel,  
Transport of the vacuole:  
Receptors and trans elements, 3:30  
p.m., 306 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

#### AUGSBURG COLLEGE

Assistant Professor in Genetics and Microbiology. Ph.D., teaching experiment and a strong commitment to effective teaching. Full-time, fixed term position to begin September 1998.

#### MINNESOTA PROJECT

Office Manager/Administrative Assistant. Provide general clerical support when needed, meeting set-up, ordering and maintaining office supplies, preparing financial reports, producing list and labels, newsletter production and general organizational assistance.

Closing date: March 30, 1998

#### MONSANTO

Corn Breeder or Agronomist. M.S. or Ph.D. and three to five years of experience in corn breeding. Expertise in database management, statistical analysis and modern agricultural practices are critical, along with excellent communication skills.

Postdoctoral in protein expression group. Ph.D. in eukaryote molecular genetics or cell biology. Excellent communication skills and an ability to work in a team-based environment are critical.

Scientist in protein expression group. Ph.D. in molecular genetics, cell biology, or a related area, and relevant postdoctoral translation processes.

#### USDA-ARS

Plant Pathologist, North Central Forest Experiment Station, Forest Diseases Research Work Unit, St. Paul. B.S. or higher degree with major study in plant pathology or a related discipline.

Closing date: March 6, 1998

#### UNIVERSITY OF WISCONSIN

Assistant Professor of Soil Science, College of Natural Resources. Ph.D. in soil science or related field, proven undergraduate teaching, and extensive working knowledge of GIS systems and their application.

Closing date: April 15, 1998

#### UNIVERSITY OF WYOMING

Department Head, Department of Renewable Resources. Ph.D. and rank of full professor.

Closing date: May 15, 1998

# Agronomy Gleanings

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University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
March 9, 1998

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

A Departmental Coffee will be held TOMORROW in 306 Borlaug Hall at 9:30 a.m. Everyone is invited. Please come and visit with your friends and colleagues and try some delicious treats.

The Agronomy Grad Club would like to invite you to join us for the **Annual Charity Soup Lunch**. We will have a selection of wonderful soups donated by members of the department and delicious bread donated by Cafe Latte. All of the proceeds from the lunch will be donated to the Second Harvest St. Paul Food Bank. We are asking for a \$3.00 donation or \$1.00 if you donate a soup.

Please join us!

**Wednesday, March 11**  
**11:45 a.m. - 1:00 p.m.**  
**306 Borlaug Hall**

The Gopher Crops and Soils Club will be having a Departmental Grill-Out this Wednesday, March 11 at 5:00 p.m. on the Borlaug Hall Patio (next to the Plant Pathology Library). We encourage all faculty, staff, students and anyone who likes burgers and hot dogs to attend! Door prizes will be given away.

**MISSING:** Has anyone seen the departmental portable tabletop display unit and the box of departmental reference photos?

We need to use them very soon for an upcoming meeting. They were not signed out. Please contact Lee Hardman at 5-6226 if you know where they are. Thank you.

The 57th Flax Institute of the United States will meet March 26-28 at the Doublewood Inn in Fargo, North Dakota. For questions, please call Dr. Jack Carter at 701-231-8155.

The 1998-99 Minneapolis White and Yellow Pages will be delivered on Tuesday, March 24. A one-to-one exchange is not necessary this year, but they will pick up only the old phone books left for recycling on that day. Please leave your old phone books outside 411 Borlaug Hall.

## Departmental Meeting

Everyone is invited to attend a lunch time discussion on Thursday, March 19 at 11:30 a.m. in rooms 302 and 306 Borlaug Hall. Ronnie Brooks, the facilitator from the September retreat, will lead the meeting.

Pizza and soft drinks will be provided!

The purpose of the meeting is to:

- Propose for discussion a mission and strategic direction for the department which has arisen from the retreat and subsequent smaller discussion groups.
- Identify ways to integrate our mission into current and future activities.

## Weeds Discussion Group

Roger Becker, Comparison of hort and agronomic weed management systems, Monday, March 16, 12:00 noon, 306 Borlaug Hall.

## Brown Bag Discussion

Nick Jordan, Farmer Learning Communities for Local Inquiry in Agriculture, Friday, March 13 at 12:00 noon in 306 Borlaug Hall. Please bring a friend and your lunch.

## Note from Jean-Luc Jannink

INIA as a research corporation. INIA's primary sources of income are producers (0.4 % of agricultural sales go to INIA) and the government (so far, the government has matched income received from producers). Other sources of income include royalties obtained on crop varieties, the sale of certified seed, the sale of information, and grants from international agencies. INIA is also interested in developing links with industry whereby, in effect, industry would contract out research to INIA. It becomes apparent that INIA's income depends not only on the quality of research performed but on how well it is able to market the research and to develop the research into technology that increases agricultural production. Several players create the economic environment in which INIA functions. The

environment in which INIA functions. The convergent or divergent interests of these players shape INIA's policy and research priorities. The most important players are Uruguayan producers. Their interests seem primarily convergent with those of INIA: greater agricultural production in Uruguay benefits INIA and presumably benefits the producers also. Even at this simple level, however, questions arise. INIA's income is tied to gross sales, producers' profits are tied to net income: does this create a conflict of interest? INIA's research priorities may not be those of each and every producer or commodity group: how does this affect a producer's economic/political will to support INIA? Other players are private corporations. Corporations are potentially in competition with INIA for profits arising from crop improvement and the sale of seed. INIA must choose its crop improvement priorities on the basis of its greater expertise and the availability of markets: for example, it has given up on hybrid seed corn and is focusing more on rice breeding. Then there are Uruguayan citizens. They do not appear any more opinionated about or interested in food production than US citizens. My sense is that there is less concern here for food safety or for agriculture as a source of pollution than in the US. Questions of sustainability are on INIA's agenda, but apparently not because of popular demand. There is also the government. As does INIA, the government benefits from greater agricultural production and export. But it is under no legal obligation to continue funding INIA at the current level and INIA is eager to increase its financial independence. Finally, Uruguayan agricultural sales depend strongly on fluctuating international markets, complicating further INIA's search for financial stability and growth. INIA's policy wonks have plenty on their minds. Let us wish them well. Jean-Luc

### Seminar

March 16 Plant Breeding, Vincent Robert, The genetics of flowering in cereals and its implications on QTL studies, 3:30 p.m., 306 Borlaug Hall.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

MICHIGAN STATE UNIVERSITY  
Research Associate in soil biophysics, soil physics, or soil science. Ph.D. and excellent scientific writing skills.

Closing date: April 1, 1998

UNIVERSITY OF NEBRASKA-LINCOLN  
Research Associate, Department of Agronomy. Non-tenure, 100% research position.

Closing date: April 24, 1998

OHIO STATE UNIVERSITY  
Extension Specialist - Seed Biology/Technology, Department of Horticulture and Crop Science. Ph.D. in horticulture, agronomy, crop science, or a related discipline, with an emphasis in seed biology. Tenure-track position with eleven month appointment.

Closing date: May 15, 1998

Extension Specialist - Vegetable Crops, Department of Horticulture and Crop Science. Ph.D. in horticulture or related field with training and experience in the production, culture, management and physiology of vegetable crops. Tenure-track position.

Closing date: May 15, 1998

Tomato Geneticist/Breeder, Department of Horticulture and Crop Science. Ph.D., postdoctoral experience in tomato genetics and breeding.

Closing date: May 15, 1998

Weed Ecologist, Department of Horticulture and Crop Science. Ph.D. in agronomy, weed science, or related discipline, and experience in conducting research on weed ecology and weed management.

Closing date: May 15, 1998

PURDUE UNIVERSITY  
Assistant Professor in Weed Science, Department of Botany and Plant Pathology. Ph.D. in weed science. Postdoctoral experience preferred.

Closing date: May 31, 1998

UNIVERSITY OF WISCONSIN-EXTENSION  
Agriculture Agent, Cooperative Extension. M.S. in agriculture and/or adult education.

Closing date: March 30, 1998

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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
March 16, 1998

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## Announcements

Congratulations to the Gopher Crops and Soils Speech Contestants. On Wednesday, March 5, Doug Clarke, Melissa Huhn, Adam Johnson, Ryan Lee and Barb Wingen gave five to seven minute speeches on a topic they drew the evening before. Barb Wingen was selected as the winner and will represent Minnesota at the National Contest in Baltimore. Adam Johnson is the alternate. Thanks to the graduate club for providing six outstanding judges.  
Vern Cardwell

We would like to thank everyone who helped make the soup lunch a tremendous success. Thank you to the 27 people who donated soups. This was the largest variety of soups we have ever had. For the sixth year, Cafe Latte donated fresh bread for the soup lunch. Cafe Latte is located at the intersection of Grand and Victoria in St. Paul. The donation of over 25 loaves of bread is gratefully acknowledged. Special thanks to the Plant Pathology grad students who contributed to the soup lunch again this year. Thanks to the barley project for lending us the power cords and strip outlets. Thanks to Teresa for the use of the tables. Finally, thanks to everyone who came and generously gave to support the work of the Second Harvest Food Bank. We were able to raise \$430 to help them distribute donated food to charitable feeding programs throughout Minnesota, western Wisconsin and North Dakota. We hope you enjoyed the soup lunch.

The Soup Lunch Committee

The Department of Plant Pathology will be sponsoring a symposium on "New Alternatives in Modern Agriculture." The symposium will be held on Friday, April 17 from 8:00 a.m. to 5:00 p.m. in the Minnesota Commons, St. Paul Student Center. Everyone is welcome. Feature speakers will be from industry and academia discussing the sensible use of chemicals and pesticides, genetic engineering, biological control, and sustainable agriculture. For more information, please call Silvia Penuela at 5-2232.

**MISSING:** Has anyone seen the departmental portable tabletop display unit and the box of departmental reference photos?

They were not signed out. Please contact Lee Hardman at 5-6226 if you know where they are.

## Weeds Discussion Group

George Heimpel, Cover Crop & Biological Control of Insects, Monday, March 23, 12:00 noon, 306 Borlaug Hall.

## Departmental Meeting

Everyone is invited to attend a lunch time discussion on Thursday, March 19 at 11:30 a.m. in rooms 302 and 306 Borlaug Hall. Ronnie Brooks, the facilitator from the September retreat, will lead the meeting.

Pizza and soft drinks will be provided!

The purpose of the meeting is to:

- Propose for discussion a mission and strategic direction for the department which has arisen from the retreat and subsequent smaller discussion groups.
- Identify ways to integrate our mission into current and future activities.

## Brown Bag Discussion

No Brown Bag Discussion due to conflict on Friday, March 20.

## Note from Jean-Luc Jannink

A word of thanks to my sponsors: these installments to the Gleanings were brought to you courtesy of AgroMega: "Agricultural Markets R us" a subsidiary of GeneTechSoft: "We patent the good things in life" (just kidding). What got me down to Uruguay in the first place was a UofM International Internship Grant; the granting program provides up to \$2,000 to support students in applied disciplines who want some international experience and have a connection with an organization willing to support them. Emily Pullins encouraged me to apply (thank you Emily) and I encourage you in turn. The Southern

hemisphere is pretty darn nice in January. While here, I have been given room and board, an office and computer support by INIA, under the auspices of a larger agreement of cooperation that exists between INIA and the UofM. My understanding is that it is an agreement of mutual self-interest, without specific stated obligations. INIA is interested in developing "strategic partnerships" with a small number of universities in North America and Europe (the only candidate in Europe is the Dutch agricultural university in Wageningen). A first consequence of the agreement is that INIA will preferentially send its staff for training to the U. As more of INIA researchers obtain UofM degrees, informal ties will become stronger. The agreement should serve to encourage cooperative research as well. An advantage of a formal document is that it should help attract funds from international agencies which are keen on ties of this sort. Finally, I have benefited from a little-known loophole clause in the agreement that specifies that short blond people with poor eyesight should be treated with great warmth and kindness. I am sure that if you have the good fortune of spending any time down here you will discover such fine-print benefits too. Looking forward to seeing you all again. The accidental international correspondent, Jean-Luc

SOUTH DAKOTA STATE UNIVERSITY  
Graduate Research Assistant in Agronomy. B.S. in agronomy or related field is required.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

ARKANSAS STATE UNIVERSITY  
Assistant Professor in Agronomy, College of Agriculture. Ph.D. in agronomy or related field, training in crop production and excellent leadership skills. Tenure-track, nine-month appointment.

Closing date: March 30, 1998

Assistant Professor in Horticulture, College of Agriculture. Ph.D. in horticulture. Tenure-track, nine-month appointment.

Closing date: March 30, 1998

CSIRO  
Postdoctoral Fellow to work on taxonomic problems in selected groups of legumes. Ph.D. and achievements in molecular systematics.

Closing date: April 6, 1998

MICHIGAN STATE UNIVERSITY  
Extension Agriculture and Natural Resources Agent, Huron County, Extension. B.S. in a field crop and general agriculture, including course work in agronomy, farm financial management, and marketing.

Closing date: March 27, 1998

MW  
g Ag & bio

# Agronomy Gleanings

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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)  
March 23, 1998

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## Announcements

The University of Minnesota Outstanding Achievement Award and the H.K. Hayes Memorial Lecture Graduate Student Award will be held on Monday, April 20. A. Forrest Troyer will be receiving the Outstanding Achievement Award and Michael Olsen is the twenty-fifth recipient of the H.K. Hayes Graduate Student Award.

### Schedule of events:

10:00-11:30 a.m. - Mini-symposium by former Hayes Graduate Student Award Recipients, 306 Borlaug Hall.

2:30 p.m. - H.K. Hayes Graduate Student Award

3:00 p.m. - Presentation of Outstanding Achievement Award, Hayes Memorial Lecture, 335 Borlaug Hall.

4:15-5:00 p.m. - Reception in 306 Borlaug Hall.

The Civil Service Excellence Award will be held on Tuesday, April 7 at 3:30 p.m. in 306 Borlaug Hall. Cake and punch will be served. Stop by and congratulate the winner.

The Micron Computer Store in Arden Hills has closed. If you need repairs under warranty, call 486-1926 or 486-1905 for pickup. Any other questions, call Customer Service at 1-800-828-0394.

The Annual Gleanings is now listed on our web page under: <http://www.agro.agri.umn.edu/>. If you would like a paper copy, please let us know at [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu).

All faculty and staff will be receiving a Staff Demographic Information Update form in the next few weeks. The forms are being sent much earlier this year. Please be sure to verify the pre-printed information carefully, making changes as necessary; sign and date the form after you have completed the "to be verified by employee" section and return the forms to Jeanne Davy.

Classroom Communication Skills for International Faculty and TA's will be held at the Center for Teaching and Learning Services, 135 Fraser Hall. Please contact Laura Espondaburu at 5-3041 or Caroline Rosen at 5-3017 for more information.

The Minneapolis Phone Books will be delivered tomorrow. Drop off your old ones in front of 411 Borlaug Hall for recycling.

## Seminar for Barley Breeding Position

Kim Kidwell, Friday, March 27

8:30-9:00 a.m. Education Presentation and Discussion

9:00-10:00 a.m. Seminar: Research Seminar and Discussion

## Weeds Discussion Group

Frank Forcella, Using Weed Biology to Make Management Decisions, Monday, March 30, 12:00 noon, 306 Borlaug Hall.

## Plant Breeding Seminar

Dani Zamir, The Israeli Tomato Genome Project, Monday, April 6 at 2:00 p.m., 306 Borlaug Hall.

## Shape-Up Challenge Kickoff

Date: April 1, Wednesday

Time: 9:30 a.m.

Place: 306 Borlaug

Everyone is invited for a juice break and sign-up (free t-shirt for everyone who participates) in the first annual Agronomy Shape-up Challenge (we are not joining the Bloomington Challenge this year). The event is again sponsored by the Northrup King Committee. There will be lots of weekly prizes and at the end of challenge a drawing of prizes for all who participated. Special activities are in the works and will be announced soon. See you at the Kick-off!

Jim Halgerson and Marilyn Swanson

## **Twin Cities Campus Calendar**

March 23-27 Spring Break for students  
March 30 Spring Quarter classes begin  
May 25 Memorial Day - U of M is closed  
June 5 Last day of instruction  
June 8-13 Final examinations

## **Position Announcements**

**(Posted in notebook in 411 Borlaug Hall)**

### **UNIVERSITY OF CALIFORNIA**

Cooperative Extension Farm Advisory, Agronomy and Superintendent of Shafter Research & Education Center. M.S. in plant science, experience in farming, farm management or supervision of agricultural research is desired.

Closing date: May 15, 1998

### **KANSAS STATE UNIVERSITY**

Research Assistant, Research Extension Center. M.S. or B.S. in agronomy, soil, or biology plus three years of experience in crop production or other plant-related disciplines.

Closing date: May 15, 1998

### **OREGON STATE UNIVERSITY**

Faculty Research Assistant, Viability Unit Supervisor. M.S. in seed technology or a closely related field. Twelve-month appointment, 50% research, 25% teaching, 15% seed testing, and 10% supervisory.

Closing date: March 20, 1998

### **UNIVERSITY OF WISCONSIN-EXTENSION**

Agriculture Educator, Crops and Soils. M.S. in agriculture.

Closing date: April 13, 1998

### **USDA**

Supervisory Scientist and Research Leader, Plant Genetic Resources Unit, Geneva, NY.

Closing date: March 30, 1998

milw  
EAG 8/8a

# Agronomy Gleanings

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March 27, 1998

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## Announcements

A **Departmental Civil Service Meeting** will be held on Friday, April 3 at 9:30 a.m. in Room 306 Borlaug Hall. Breakfast treats will be provided! All civil service employees are encouraged to attend.

The Civil Service Excellence Award will be held on Tuesday, April 7 at 3:30 p.m. in 306 Borlaug Hall. Cake and punch will be served. Stop by and congratulate the winner.

## Brown Bag Discussion

Dr. Greg Cuomo, Application of Ecological Principles to Agricultural Systems, Friday, April 3 at 12:00 noon in 306 Borlaug Hall.

## Shape-Up Challenge Kickoff

Everyone is invited for a juice break and sign-up (free t-shirt for everyone who participates) in the first annual Agronomy Shape-up Challenge. The event is sponsored by the Northrup King Committee. There will be lots of weekly prizes and at the end of the challenge a drawing of prizes for all who participated. Get your teams together and see you at the Kick-off!

Jim Halgerson and Marilyn Swanson

Date: **April 1, Wednesday**

Time: **9:30 a.m.**

Place: **306 Borlaug**

## Seminars

**April 6 Plant Breeding.** Dr. Dani Zamir, The Israeli Tomato Genome Project, 2:00 p.m., 306 Borlaug Hall.

**Agronomy Seminar.** Dr. Fergus Sinclair, Understanding and Management of Interactions as a Fundamental Basis of Agroforestry, University of Wales, Bangor, UK, 3:30 p.m., 306 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### UNIVERSITY OF FLORIDA

Assistant Professor, Weed Scientist, Agronomy Department. Ph.D. in plant/weed discipline with specialized educational training in weed science and plant physiology. Tenure accruing position with 70% research and 30% teaching.

Closing date: May 15, 1998

### UNIVERSITY OF GEORGIA

Research Scientist, Department of Crop & Soil Science. Ph.D. in weed science, agronomy, pest management or a related agricultural science. Experience in conducting field, greenhouse, and laboratory research

Closing date: May 15, 1998

### GUSTAVUS ADOLPHUS COLLEGE

Two positions available to teach classes in biology, animal behavior, plant physiology and ecology courses starting Fall 1998. Ph.D. and demonstrated teaching ability in the classroom and field experience.

### LOKA INSTITUTE

Executive Director with experience and innovative capabilities in fundraising and administrative management.

Closing date: May 15, 1998

### UNIVERSITY OF NEBRASKA-LINCOLN

Research Technologist I, Department of Agronomy. B.S. in agricultural sciences or related field is required. Greenhouse management certificate or two years of greenhouse experience.

Closing date: April 10, 1998

### USDA

Research Plant Molecular Geneticist in Beaumont, Texas. Ph.D. with postdoc experience is desired.

Closing date: May 6, 1998

Research Agronomist; Soil Scientist; Supervisory Agricultural Engineer; Research Geneticist in Prosser, WA.

Closing date: May 6, 1998



mhw  
J.M.C.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
April 6, 1998

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

Please welcome Jamie Mork to the department. He is our new User Service Specialist. His phone number is 5-2721, office 304 Stakman Hall.

I have a check from DeKalb for \$2,700, to whom does this belong? Judy

The Agronomy Shape Up Challenge starts today. You can still sign up if you want to participate. Contact Lynne, Marilyn or Jim. Each person who participates will receive a free t-shirt. Tomorrow is double points day. If you exercise on Tuesday you can double your score. Aim for 200 points each week.

Lab Fest '98 will be two days again this year after the successful day in St. Paul last year. On April 8 it will be held at the Radisson Metrodome-Mpls. and on April 9 at the North Star Ballroom-St. Paul Student Center from 10:00 a.m. to 3:00 p.m. with lunch served between 11:30 a.m. and 1:00 p.m. Approximately 100 scientific vendors and UM departments with lab services will be available at the Radisson, and approximately 80 at the St. Paul Campus. Grand prizes and door prizes will be part of the activities, as well as seminars (only on Mpls). PLEASE NOTE: These dates are a change from the 1997-98 Lab Services Calendar.

Peter Guzman, a soon to be Ph.D. in maize breeding at Iowa State, is looking for a postdoctoral position. Contact Don Rasmusson if you are interested.

The departmental vans are now in the greenhouse lots. Mike McClellan

Effective Monday, April 13, the Graduate School offices (Admissions, EEO, Fellowships, and Student Services) will have new office hours. Public office hours will be Monday through Friday from 9:00 a.m. to 4:00 p.m.

On February 19, 1998, the University Senate voted to change the minimum standard for the S grade. Effective Spring 1998, the amount and quality of work required for an S may not be less than that required for a C-. Please make the necessary changes in your course syllabus. If you have any questions, call Laura Coffin Koch, at 4-1085.

All faculty and instructors, please announce the following message to your students: "In Fall 1999, the University of Minnesota is changing to semesters. Students should start working with their academic advisers about how the transition to semesters will affect their individual programs. Semester Transition Student Handbooks and Semester Transition Course materials will be available to students in mid-April."

## Brown Bag Discussion

Carol Bruzzone, Peanut butter sandwich: Peanut food allergy and oral wheat tolerance, Friday, April 10 at 12:00 noon in 306 Borlaug Hall.

## Greenhouse Users

Monday, April 6th is a clean up/watering day. Participation was very poor in March. All greenhouses need to be cleaned up.

Following are the Operating Procedures for the University of Minnesota Centralized Greenhouse Facility:

1. Greenhouse/headhouse users should leave the greenhouse/headhouse or classroom as clean or cleaner at the completion of an experiment, task or class as it was before starting.
2. Maintain plants in proper cultural condition. Notify Greenhouse Supervisors of pest/disease problems immediately. Faculty conducting research on issues related to entomology or pathology should identify any specific control procedures with the Greenhouse Supervisors that can or cannot be used in those greenhouse sections.

### Greenhouse Users (continued)

3. All growing sections should be kept free of dead plant material and excess soil. Discard unneeded plant material in the correct waste unit. Every effort will be made by greenhouse staff to solve a 'lack of sanitation' issue in a section by discussing the issue with the Project Leader. Failure to comply with requests after one week will result in the greenhouse staff cleaning the area at a rate of \$50.00/hour.

4. Personal plants found in greenhouse sections will be discarded by greenhouse staff without warning.

5. Check with either Greenhouse Supervisor before bringing plants into the greenhouse. Plants brought in from outside sources must be checked and treated for pest or disease problems, if present, before entering the greenhouse.

6. Fill out a greenhouse space request form, located in each departmental office, at least two weeks prior to when space is needed. In the event that space is not available, space will be assigned based, in part, on when a request was made.

7. Consult either Greenhouse Supervisor prior to making modifications to the greenhouse itself or greenhouse environment.

8. Plants in propagation sections must be labeled with the Project Leader's name. Unlabeled materials will be disposed of.

9. Do not add plants to plant collections without consulting with the Collection Supervisor.

10. New individuals utilizing greenhouse space must contact the Safety Trainer (Roger Meissner) and receive safety training within five days from starting greenhouse work.

The above procedures were put together by the Greenhouse Oversight Committee, which is composed of a faculty member from all of the departments involved. Pamela Altermatt

### Seminars

April 6 **Plant Breeding**, Dr. Dani Zamir, The Israeli Tomato Genome Project, 2:00 p.m., 306 Borlaug Hall.

**Agronomy**, Dr. Fergus Sinclair, Understanding and Management of Interactions as a Fundamental Basis of Agroforestry, University of Wales, Bangor, UK, 3:30 p.m., 306 Borlaug Hall.

### Position Announcements (Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF ILLINOIS

Senior or Principal Research Specialist in Agriculture, Department of Crop Sciences. M. S. in crop science, soil science, or in a closely related field.

Closing date: June 10, 1998

#### KANSAS CROP IMPROVEMENT ASSOCIATION

Executive Director. M.S. or B.S. in an agricultural field, familiarity with crop production practices, seed production, quality control and marketing and experience in computers.

Closing date: June 1, 1998



# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)

April 13, 1998

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## Announcements

My wife, Helen, is now residing at Presbyterian Home, 3220 Lake Johanna Boulevard, Arden Hills.

Laddie J. Elling

Neil A. Anderson, Professor and former head of Plant Pathology, will be retiring after 40 years of service to the University of Minnesota. On Friday, May 8 at 2:30 p.m. in 33 McNeal Hall, a reception will follow after a summation lecture given by Neal Anderson. A book of letters is being prepared for him. Please send your letters to Ann Arendt in 495 Borlaug Hall. All monetary gifts will go the Plant Pathology Library Endowment Fund. The gifts can also be sent to Ann. Everyone is invited to celebrate this very special day.

Tomorrow is Co-Worker Lunch Walk for the Shape-Up Challenge. Double points for walking at lunch with another co-worker (not for the whole day). Try to aim for 200 points each week so your name can be entered into the weekly drawing. A sheet is now posted outside 411 Borlaug Hall to record your points. You can also e-mail your points to Lynne, Marilyn or Jim.

A Communicators Forum "When the Media Bite Responding to Media Interest in Your Department" will be held on Tuesday, April 14 from 3:00-4:30 p.m. in 270 Anderson, West Bank. This program will help you learn what the media needs from you when they want to follow up on your publicity. This event is free and no reservations are necessary.

We are missing Vol. 40(6) of Genome, December 1997. If anyone has this journal, please return it to Lynne Medgaarden in 302 Hayes Hall. Thank you.

The 69th FFA State Convention is being held on the St. Paul Campus on Monday and Tuesday, April 27 and 28.

Take Our Daughters to Work Day will be held on Thursday, April 23. The St. Paul campus event has been planned to welcome daughters, granddaughters, nieces, and friends into our workplace where they can learn about some of the opportunities at the University. The support and involvement of many has made this event possible. Information is available at the front desk in 411 Borlaug Hall.

A tour of the greenhouses, pesticide facility, and related plant growth and processing areas will be held on Wednesday, April 15 at 10:00 a.m. beginning in the Agronomy/Plant Pathology Teaching Greenhouses, 1522 Gortner Ave. It is a great opportunity for new employees (and current) to become familiar with our facilities. We are scheduling monthly tours during Fall, Winter, and Spring quarters as long as there is interest. May 13 is the next scheduled tour.

## Brown Bag Discussions

Ana Maria Procopiuk, Visit to CIMMYT: Small grains in Obregon, Friday, April 17 at 12:15 p.m. in 306 Borlaug Hall.

\*\*\*\*\*  
Peggy Egli, Proposed USDA guidelines for organic food, Friday April 24, 12:00 noon, 306 Borlaug Hall.

The USDA is soliciting public comments through April 30, 1998 on their proposed guidelines for organic food. We'll discuss the current situation, the proposed changes, and some of the controversial aspects of the USDA proposal.

What is organic food? How is it documented? Can it be genetically engineered, irradiated, or fertilized with sewage sludge? Should the guidelines reflect social values and/or scientific information? Do YOU want to comment to USDA?

Tris McCann of the Minnesota Food Association will help provide some information - but in the meantime, check out the USDA's Web site at <http://www.ams.usda.gov/nop/>

## Hayes Award

The 25th H.K. Hayes Memorial Lecture, Hayes Graduate Student Award and University of Minnesota Outstanding Achievement Award will be held on Monday, April 20. Everyone is invited to participate.

### Schedule of Events:

- 9:00-10:00 a.m. Reception in 302 Borlaug Hall (muffins and coffee)
- 10:00-11:30 Symposium with past Hayes Award Recipients (302 Borlaug Hall)
- 11:30-12:30 Lunch (light buffet) - 302 Borlaug Hall)
- 1:00-2:00 p.m. Special discussion with past recipients and current graduate students - 408 Hayes Hall
- 2:30 Hayes Graduate Student Award - 302 Borlaug Hall
- 3:00 Presentation of Outstanding Achievement Award to Forrest Troyer and Hayes Lecture, "70 Centuries of Corn Evolution", 335 Borlaug Hall
- 4:15-5:00 Reception - 302 Borlaug Hall

## Gopher Crops & Soils Club

A meeting will be held on Wednesday, April 15 at 5:30 p.m. in 101 Hayes Hall (undergrad lounge). Following the meeting, we will be cleaning the club room and working on our achievement book.

## Seminars

- April 13 Agronomy, Kevin Edberg, Marketing the products of sustainable agriculture, 3:30 p.m., 306 Borlaug Hall.
- April 14 M.S. Defense, Eric Hoeft, Integrated weed management for the control of Canada thistle (*Cirsium arvense*) with *Pseudomonas Syringae* pv. *Tagetis* and a weed-competitive soybean (*Glycine max*) cultivar, 1:00 p.m., 306 Borlaug Hall.

## Plant Biological Sciences & Plant Molecular Genetics Institute

Colloquium, Gian B. Trepp, Localization and regulation of NADH-dependent glutamate synthase in alfalfa root nodules, 3:30 p.m., 33 McNeal Hall.

- April 16 Biotechnology, Larry Schook, Building a better hog: Genetic roadmaps, 3:30 p.m., 365 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF NEBRASKA-LINCOLN  
Seed Production Manager, Department of Agronomy. B.S. with major in crop production, farm management, or related field.

Closing date: April 20, 1998

NEW MEXICO STATE UNIVERSITY  
Graduate Research Assistantships, Department of Agronomy and Horticulture. Project 1: AFLP linkage mapping in tetraploid alfalfa, M.S. or Ph.D. level student will be responsible for developing a linkage map in tetraploid alfalfa; Project 2: Genetic engineering for osmotic stress tolerance in alfalfa, M.S. or Ph.D. level student will be responsible for determining if genetic alterations in carbohydrate metabolic pathways is a useful approach to improve osmotic stress tolerance in alfalfa.

Closing date: July 1, 1998

NORTH CAROLINA STATE UNIVERSITY  
Research Associate, Department of Crop Science. Ph.D. in agronomy, crop physiology, or weed science.

Closing date: May 30, 1998

J.C. ROBINSON SEED COMPANY/GOLDEN HARVEST RESEARCH

Corn Breeder, Research Station Manager. Ph.D. in plant breeding and genetics or closely related field is required. Breeding experience with corn is desirable.

Closing date: May 30, 1998

SAMUEL ROBERTS NOBLE FOUNDATION  
Senior Research Assistant, Plant Tissue Culture and Molecular Biology, Forage Biotechnology Group. M.S. in molecular biology, genetics, biochemistry, plant sciences or related areas.

Closing date: May 10, 1998

UNIVERSITY OF WISCONSIN-EXTENSION  
Agriculture Educator, Cooperative Extension. M.S. or B.S. in agriculture. Experience in agriculture/adult education.

Closing date: May 4, 1998

miw  
S Ag Flax

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
April 20, 1998

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## Thank you

The family of Mary Stanowski acknowledges with deep appreciation your kind expression of sympathy.

Dear Agronomy Faculty and Staff,

Thank you for the beautiful plant sent for my mother and for all the beautiful cards and words of sympathy this past week. My mother went back to work at age 70 and worked for ten years. She had the good fortune to work with an exceptional group of people who truly cared about her. Working in Agronomy, I too can say that I have had this same experience – working with people who truly care about each other. Thank you! Jeanne

## Announcements

Congratulations to Kate Plaisance who was the recipient of the 1998 Civil Service Excellence Award!!

Congratulations also to longevity award recipients:

- Gary Linkert - 25 years
- Doug Swanson - 20 years
- Marilyn Swanson - 15 years
- Kim Torbert - 5 years

A 1982 graduate student picture is missing from the board in 306 Borlaug Hall. If you know the whereabouts of the picture, please return as soon as possible.

The St. Paul Campus Faculty and Staff Retirement Luncheon will be held on Tuesday, May 12 at 12:00 noon in the St. Paul Student Center, North Star Ballroom. Tickets can be purchased from Nancy Pitzer in 42 St. Paul Student Center from April 20 to May 4. The price is \$5.50 and includes a spaghetti lunch.

The Bike and Camping Gear Swap will be held on April 30 to May 2. Hours will be from 9:00 a.m. to 8:00 p.m., Thursday and Friday, and 9:00 a.m. to 5:00 p.m. on Saturday. Bring in your gear

to sell on April 28 and 29 from 9:00 a.m. to 8:00 p.m. New and used bikes, accessories, tents, roller blades, camping equipment and clothing will be on sale.

## Hayes Award

The 25th H.K. Hayes Memorial Lecture, Hayes Graduate Student Award and University of Minnesota Outstanding Achievement Award will be held TODAY. Try to participate in the events. Everyone is welcome.

### Schedule of Events:

- 9:30-10:00 a.m. Reception (302 Borlaug Hall)
- 10:00-11:30 Symposium with past Hayes Award Recipients (302 Borlaug Hall)
- 11:30-12:30 Lunch (302 Borlaug Hall)
- 1:00-2:00 p.m. Special discussion with past recipients and current graduate students (408 Hayes Hall)
- 2:30 Hayes Graduate Student Award (302 Borlaug Hall)
- 3:00 Presentation of Outstanding Achievement Award to Forrest Troyer and Hayes Lecture, "70 Centuries of Corn Evolution" (335 Borlaug Hall)
- 4:15-5:00 Reception (302 Borlaug Hall)

## SHAPE-UP CHALLENGE WEEK #1

This year's Shape-Up Challenge is getting off to an enthusiastic start! There are 121 persons choosing to participate. All but 22 persons qualified with 200 points or more for the first week's prize drawing, a \$20 dollar gift certificate to the Olive Garden. Congratulations to our winner, Nicole Hutchinson.

The top three high team averages after the first week are G& L Team with 745 points, Wanna Be Healthy with 548 points, and Corn Flakes with 497 points.

Tuesday, April 21 is a day you can earn double points for the whole day. Keep active and keep turning in your points. Marilyn

## Brown Bag Discussion

### Brown Bag Discussion

Peggy Egli, Proposed USDA guidelines for organic food, Friday, April 24 at 12:00 noon in 306 Borlaug Hall. USDA is soliciting public comment through April 30, 1998 on their proposed changes for organic food, and some of the controversial aspects of the USDA proposal. What is organic food? How is it documented? Can it be genetically engineered, irradiated, or fertilized with sewage sludge? Should the guidelines reflect social values and/or scientific information? Do you want to comment to USDA?

### 1998 Field Days

June 23 - Crops and Soils Field Day at Southern Experiment Station, Waseca.

June 24 - Southwest Experiment Station, Lamberton

July 9 - West Central Experiment Station, Morris

September 10 - Corn and Soybean Field Day, Southern Experiment Station, Waseca

### Seminars

April 20 **Agronomy**, No seminar because of Hayes Event.

April 21 **Plant Biological Sciences & Plant Molecular Genetics Institute Colloquium**, Scott Tingey, Gene discovery for another round of agricultural products, 3:30 p.m., 33 McNeal Hall.

April 23 **Biotechnology**, Anu Subramanian, Identification of factors impacting immunosorbent performance, 3:30 p.m., Eustis Amphitheater D230, Mayo.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

Agriculture Operation Manager in Bakersfield, CA is needed immediately. B.S. and at least ten years of experience in farming and storage operations of a large farming organization.

#### UNIVERSITY OF CALIFORNIA

Agronomy/Field Crops Farm Advisor, Cooperative Extension. M.S. in agronomy or vegetable crop production. Three years experience in area such as water science, crop physiology, soil science or applied statistics.

Closing date: June 15, 1998

#### UNIVERSITY OF KENTUCKY

Research Assistantship, Department of Agronomy. M.S. or Ph.D. program in soil physics focusing on the transport of water, solutes and micro-organisms in structured soils.

#### UNIVERSITY OF MINNESOTA

Associate Dean for Extension, College of Human Ecology. Ph.D. in human ecology, adult education, or similar program. Demonstrated administrative, management, and personnel skills.

Closing date: May 15, 1998

#### PIONEER HI-BRED INTERNATIONAL

Two field research station positions. Ph.D. in agronomy with specialty in weed science, soils, crops, breeding, entomology or plant pathology. Check web site: [www.pioneer.com](http://www.pioneer.com)

#### USDA

Research Plant Pathologist, Pullman, WA. M.S. or Ph.D. in plant pathology, or a related scientific discipline that included botany or plant sciences.

Closing date: May 6, 1998

Horticulturist, Parlier, CA. Degree in horticulture or basic science.

Closing date: May 6, 1998

Research Plant Pathologist, Palmer, AK. M.S. or Ph.D. in plant pathology.

Closing date: May 6, 1998

Research Geneticist (Plants), Pullman, WA. M.S. or Ph.D. in genetics, or basic biological sciences.

Closing date: May 6, 1998

#### WARTBURG COLLEGE

Assistant Professor in Molecular Biology and Biochemistry. Ph.D. in an appropriate scientific area, demonstrated expertise in molecular biology and biochemistry.

#### UNIVERSITY OF WISCONSIN-EXTENSION

Agriculture Educator in Crops and Soils, Cooperative Extension. M.S. in field of agriculture.

Closing date: May 11, 1998

MW  
Jing Lee

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
April 27, 1998

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## Thank you

To the Department:

Thank you for the beautiful flowers, cards, and well wishes after my recent surgery to correct a cardiac electrical problem. Your thoughts were most appreciated.

Carroll Vance

To the Grad Club:

Thank you for the beautiful flowers you sent us for Secretaries Day. We really appreciated it.

The Office Staff

A new organic certification handbook is available for anyone interested in certifying organic crop acres in Minnesota. "Organic Certification of Crop Production in Minnesota" is a guide produced by MISA and the University of Minnesota, Extension Service. The cost of each manual is \$3 plus tax (Minnesota residents add 7% sales tax) and \$2 for shipping. To order, send a check payable to: University of Minnesota, Extension Service, Distribution Center, U of M, 1420 Eckles Avenue, St. Paul, MN 55108.

## Announcements

We have many reprints left from Dr. Forrest Troyer's Hayes Lecture last Monday. If you would like some, please stop by 411 Borlaug Hall. We also have pens donated by Pfizer and one pound packages of sweet corn donated by Cargill. You are welcome to take them.

If you are on a P&A appointment, you are invited to an open discussion from 8:00-9:00 a.m. on Friday, May 1 in 33 McNeal Hall. Coffee and donuts will be served.

Contract Lot #162 (behind Teaching Greenhouse) parking space for sublet on a month-to-month basis. Contact Teresa Schoeder at 5-1748.

The St. Paul Campus Faculty and Staff Retirement Luncheon will be held on Tuesday, May 12 at 12:00 noon in the St. Paul Student Center, North Star Ballroom. Tickets can be purchased from Nancy Pitzer in 42 St. Paul Student Center from April 20 to May 4. The price is \$5.50 and includes a spaghetti lunch.

President Yudof is hosting a campus-wide Ice Cream Reception honoring all Twin Cities student athletes on Wednesday, May 6 from 11:00 a.m. to 1:00 p.m., and you're invited! The locations will be Northrop Plaza and the St. Paul Student Center.

The Philip C. Hamm Memorial Lecture will be held on Tuesday, May 12. Dr. Deborah Delmer, Professor and Chair, Section of Plant Biology, University of California-Davis, "Genes and Proteins involved in Cellulose Synthesis in Plants."

3:30 p.m. Reception, Earle Brown Center, Upper level

4:00 p.m. Awards Ceremony and Lecture, 135AC, Earle Brown Center

## Shape-up Challenge WEEK #2

The Challenge's purpose is to promote health and wellness of employees by encouraging regular aerobic, strength training or flexibility activities. This week's winner qualifying with 200 points or more is Paulo Canci. Paulo earns his points by playing soccer twice a week. Congratulations! Paulo received a \$20 gift certificate for Rainbow Foods.

Top three high team averages after week #2 are G & L Team with 688 points, Bill's Team with 653 points, and Runnergades with 595 points.

The warm and sunny weather has been a big incentive for many people to be active outdoors. Whatever you are choosing to do...keep on earning those points. Remember Tuesday, April 28 is another double point day when you walk at lunch with another co-worker.

(continued)

## Shape-up Challenge (cont.)

### GROUP FITNESS DAY- Tuesday, May 5

Meet at 12:00 noon outdoors between Hayes Hall and Gortner Lab (306 BH if it's raining). Double your points for a LOW SWEAT, SOME EDUCATION, AND LOTS OF FUN group activity with an instructor(s) from the St. Paul Gym. All participants are encouraged to be there wearing their Shape-Up Challenge t-shirt. If you still need to get yours, see your team captain. Marilyn (Hole) Swanson

### Departmental Coffee

The next Departmental Coffee will be held on Wednesday, May 6 at 9:30 a.m. in 306 Borlaug Hall. Please come and visit with your colleagues and friends and try some delicious treats.

### Seminars

April 27 Agronomy, Cancelled.

#### Plant Molecular Genetics Institute

Discussion, Wojtek Pawlowski, Structure of transgene locus in oat genetically engineering by microprojectile bombardment, 12:00 noon, 239 Gortner Lab.

April 28 Plant Pathology, Jon Powell, Toward understanding the dollar spot pathogen sclerotinia homoeocarpa, 11:00 a.m., 491 Borlaug Hall.

#### Plant Biological Sciences

Colloquium, Margaret Essenberg, The where and wherefore of phytoalexins in the cotton/Xanthomonas drama, 3:30 p.m., 33 McNeal Hall.

April 30 Biotechnology, R.A. Narayanan, Assaying transgenic soybean roots for resistance to the soybean cyst nematode, 3:30 p.m., 475 Borlaug Hall.

## Position Announcements (Posted in notebook in 411 Borlaug Hall)

### AGREN, INC.

Nitrogen BMP Coordinator in Carroll, IA. Must be well connected with nitrogen experts in both the academic and private sector, statistical background and understanding of nitrogen BMPs.

Closing date: May 11, 1998

### MICHIGAN STATE UNIVERSITY

District Extension Groundwater Agent, West Central Region. M.S. or B.S. in agriculture and water quality experience.

Closing date: May 11, 1998

Extension Agriculture and Natural Resources Agent, Livingston County. M.S. or B.S. in agriculture. Develops collaboration and partnerships, works with county planners, and homeowners associations.

Closing date: May 11, 1998

### UNIVERSITY OF MISSOURI-COLUMBIA

State Extension Specialist-Integrated Weed Management, Agronomy Department. Ph.D. with emphasis in weed science and experience in conducting field research and extension programs in weed management. Tenure-track, 12-month appointment.

Closing date: May 10, 1998

### SOUTH DAKOTA STATE UNIVERSITY

Extension Agent, 4-H/Youth, Cooperative Extension Service. M.S. or B.S. in youth development and communication.

Closing date: August 1, 1998



MUC  
Erg...  
Hole

# Agronomy Gleanings

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May 4, 1998

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## Announcements

Congratulations to Ginger Walker for being chosen as the Civil Servant of the Year for the St. Paul location of ARS employees. Her award was for exemplary performance as Program Assistant for the Plant Science Research Unit.

Mark your calendars for the Annual Gopher Crops & Soils Club Steak Fry on Wednesday, May 27.

\*4:30-5:30 p.m. - Challenge volleyball with undergraduates vs. faculty and graduate students (if you can field a team) at St. Paul Campus volleyball sandpit.

\*5:30 - Steaks done the way you like them on Borlaug Hall Patio.

Cost - Faculty and Staff - \$3.00  
Graduate Students - \$2.00  
Undergraduates - \$1.00  
Children under age of 12 - free

Sign up with Lynne Medgaarden in 302 Hayes Hall.

**Reminder:** All work related injuries must be reported on an official workers' compensation form, and the designated clinic for injured employees is Healthworks Occupational Medical Center, 3329 University Avenue S.E., Minneapolis. Forms may be obtained from Jeanne Davy.

**Reminder** for all new personnel and projects ordering large amounts and/or heavy shipments of products, be sure to add "CALL TO ARRANGE DELIVERY" (give name and phone number) on the purchase order. Your vendor can then relay your request to the freight company and you can avoid extra costs in RE-DELIVERY.

If you know your shipment will need a forklift to move it for delivery, Bester Brothers Transfer is the U of M contracted vendor to assist you. See Marilyn or Judy for a purchase order for their part in receiving your order. Sometimes it is more efficient to arrange to have your order delivered to Bester Brother's location first and then to your area. Marilyn (Hole) Swanson

## Shape-up Challenge

### WEEK #3

Enthusiasm remains high as we report on week #3 in our six week event. Besides having fun, we hope you are experiencing some of the benefits of beginning or expanding on your choice of regular physical activity. Well known benefits include increased energy, lower stress, and better sleep.

This week's winner qualifying with 200 points or more is Eric Barberg. Congratulations! Eric receives a \$20 gift certificate to the Olive Garden.

Top three high team averages after week #3 are G & L Team with 1015 points, Wanna Be Healthy with 763 points, and Corn Flakes with 713 points.

DOUBLE POINTS, TUESDAY, MAY 5TH when you meet your co-workers for a LOW SWEAT, SOME EDUCATION, AND LOTS OF FUN group activity. Instructors from the St. Paul Gym will be teaching us how stretching and low impact boxing moves can improve our health and wellness.

WHERE: OUTSIDE on the lawn between Hayes Hall and Gortner Lab. (If it rains, 306 Borlaug Hall).

TIME: 12:00 Noon - 12:45

All participants are encouraged to wear their Shape-Up Challenge t-shirt and comfortable shoes. Liquid refreshment to follow activity.

Marilyn (Hole) Swanson

## Departmental Coffee

The next Departmental Coffee will be held on Wednesday, May 6 at 9:30 a.m. in 306 Borlaug Hall.

### **Greenhouse Users:**

TODAY is a clean up/watering day!!

When you are dumping plant material, clean up the walkways behind you. Bench tops should be cleaned up when you are finished. Pots should get returned to the headhouse for cleaning. Thanks for your help and cooperation. The Greenhouse Staff

Following are the Operating Procedures for the University of Minnesota Centralized Greenhouse Facility:

1. Greenhouse/headhouse users should leave the greenhouse/headhouse or classroom as clean or cleaner at the completion of an experiment, task or class as it was before starting.
2. Maintain plants in proper cultural condition. Notify Greenhouse Supervisors of pest/disease problems immediately. Faculty conducting research on issues related to entomology or pathology should identify any specific control procedures with the Greenhouse Supervisors that can or cannot be used in those greenhouse sections.
3. All growing sections should be kept free of dead plant material and excess soil. Discard unneeded plant material in the correct waste unit. Every effort will be made by greenhouse staff to solve a 'lack of sanitation' issue in a section by discussing the issue with the Project Leader. Failure to comply with requests after one week will result in the greenhouse staff cleaning the area at a rate of \$50.00/hour.
4. Personal plants found in greenhouse sections will be discarded by greenhouse staff without warning.
5. Check with either Greenhouse Supervisor before bringing plants into the greenhouse. Plants brought in from outside sources must be checked and treated for pest or disease problems, if present, before entering the greenhouse.
6. Fill out a greenhouse space request form, located in each departmental office, at least two weeks prior to when space is needed. In the event that space is not available, space will be assigned based, in part, on when a request was made.

7. Consult either Greenhouse Supervisor prior to making modifications to the greenhouse itself or greenhouse environment.
8. Plants in propagation sections must be labeled with the Project Leader's name. Unlabeled materials will be disposed of.
9. Do not add plants to plant collections without consulting with the Collection Supervisor.
10. New individuals utilizing greenhouse space must contact the Safety Trainer (Roger Meissner) and receive safety training within five days from starting greenhouse work.

The above procedures were put together by the Greenhouse Oversight Committee, which is composed of a faculty member from all of the departments involved. Pamela Altermat

### **Ag Awareness Days**

We need your help! Busloads of children will be arriving on campus next week to learn about agriculture. This is your opportunity to be of service and teach the next generation about where food really comes from. The grad students have designed an exciting new display - we just need some people from the department to explain it to the kids. Please sign up on the sheet by the mailboxes to help for an hour and a half on May 12, 13, or 14. Thank you!

The Ag Awareness Days Committee

### **Seminars**

- May 4 **Agronomy**, Salina Amey, Hybrid hazelnut windbreak potential, 3:30 p.m., 306 Borlaug Hall.
- May 5 **Plant Pathology**, David Green, Effect of Rhizoctonia resistance in tall fescue on fungicide efficacy: A turfgrass IPM model, 11:00 a.m., 491 Borlaug Hall.
- Plant Biological Sciences and Plant Molecular Genetics Colloquium**, Jasper Rine, Gold, silver, and bronze standards for gene expression profiles, 3:30 p.m., 33 McNeal Hall.
- May 7 **Biotechnology**, Peter Christie, Assembly of a contact - dependent transport system for delivery of DNA and proteins to sukaryotic cells, 3:30 p.m., D230 Mayo.

## Web Addresses

Semester transition web site is:  
www.opa.pres.umn.edu/semester/; adviser site  
is: www.opa.pres.umn.edu/advisers/; student  
site is: www.opa.pres.umn.edu/students/

Department Advisors: Reserve May 8, 2:30 p.m,  
for AnPl Systems Adviser Semester Training.  
Location to be announced, and sponsored by the  
College.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### COMPATIBLE TECHNOLOGY, INC.

Executive Director. Organizational leadership,  
personnel and financial management, and  
fundraising.

Closing date: May 15, 1998

### CORNELL UNIVERSITY

Extension Associate IV, Area IPM Extension  
Educator, Cooperative Extension. M.S. in IPM,  
plant pathology or entomology. Four to five  
years of experience in either dairy, field crops or  
poultry industry. Must be willing to travel on a  
weekly basis.

Closing date: August 13, 1998

### MINNESOTA COUNCIL ON FOUNDATIONS

Manager for research, information and referral  
services, and to assist with educational services.

Closing date: May 11, 1998

### MONSANTO CO.

Plant Breeding - Wheat, Nutrition and Consumer  
Sector. Ph.D. in plant breeding, crop sciences or  
related agricultural areas. Need understanding  
and working knowledge of experimental design  
and statistics, use of molecular genetics and  
biotechnology in plant breeding.

Wheat Breeder, Agriculture Section. M.S. in  
plant breeding, crop science, or closely related  
agricultural areas. Experience in weed sciences  
desirable.

### NORTH DAKOTA STATE UNIVERSITY

Two weed scientist positions available. Position  
I: Weed Scientist in reduced and no-tillage,  
weed biology and weed resistance. Tenure-  
track, 90% research and 10% teaching. Weed  
science research on reduced tillage and no-tillage  
systems and research on weed biology and weed  
resistance.

Position II: Weed scientist in weed control in  
small grains, sunflower, and minor crops.  
Tenure-track, 90% research and 10% teaching.  
Weed science research in small grains,  
sunflower, and minor crops using chemical,  
cultural, mechanical, and biological methods.

Graduate Research Assistant, M.S., Department  
of Soil Science or Plant Sciences. Assist in study  
of soil pH and herbicide interactions in soybeans.  
B.S. in soil science, plant sciences, or agronomy.

### UNIVERSITY OF WISCONSIN-EXTENSION

Agriculture Educator in crops and soils,  
Cooperative Extension. M.S. in field of  
agriculture.

Closing date: May 26, 1998

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

May 8, 1998

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

**Housing needed:** A graduate student from the Netherlands will be working in Dr. Jung's lab from the middle of September until early February. He is in need of a place to live during that time. If you have a room to rent please contact Dr. Hans Jung (5-8291).

Mark your calendars for the Annual Gopher Crops & Soils Club Steak Fry on Wednesday, May 27.

\*4:30-5:30 p.m. - Challenge volleyball with undergraduates vs. faculty and graduate students (if you can field a team) at St. Paul Campus volleyball sandpit.

\*5:30 - Steaks done the way you like them on Borlaug Hall Patio.

Cost - Faculty and Staff - \$3.00  
Graduate Students - \$2.00  
Undergraduates - \$1.00  
Children under age 12 - free

Sign up with Lynne Medgaarden in 302 Hayes Hall.

**Congratulations!** The Forageurs bowling team has after 9 long years finally returned the St. Paul Faculty & Staff & Grad Student Bowling League Championship to our department. Team members from our department include Captain Jim Halgerson, Art Killam, Mark Matteson, Doug Miller, Eric Ristau, Deon Stuthman, and Donn Vellekson. They rolled a 2187 series to defeat the Pedons from the Soils Department on Wednesday. -- Eric Ristau

The annual Agronomy and Plant Genetics "Fishing, Camping, and Leisure" trip is scheduled for June 12, 13, and 14 at Lake Bemidji State Park. I encourage you to consider joining us whether or not you like to fish. Lake Bemidji State Park has mountain bike and hiking trails including a bog walk, where bog plants should be in full bloom. The park also features a visitor center, a swimming beach, and boat rentals.

We have scheduled two "traditional" group activities; a Saturday night camp fire, and a Sunday morning "Potluck/Fishingluck" Brunch. All are welcome.

We have a primitive group camp reserved (under mature pines). The camp is reserved for the 11th as well for those arriving early. Those who would like more modern facilities or have RV's, you can reserve sites by calling the Connection at 922-9000. For those not into camping, Bemidji is only 5 miles away and offers hotel options. Call the Bemidji Area Chamber of Commerce at 1-800-458-2223 for more information.

More Details and sign-up information will be coming soon. -- Douglas Miller, 1998 Chairperson.

mill  
Jung

## Shape-Up Challenge

### Week #4

Sunshine and warm temperatures continue to motivate Shape-Up Challenge participants. Brisk walking appears to be the most popular choice observed on campus. Keith Henjum, member of the Wanna Be Healthy team, is the weekly 200+ point winner. Congratulations! Keith receives a \$20 gift certificate to Rainbow Foods.

Top three high team averages after week #4 are G & L with 815 points, Billó's Team with 795 points, and Wanna Be Healthy with 737 points.

**DOUBLE POINTS FOR THE WHOLE DAY ON TUESDAY MAY 12TH!** This is the last week to earn points. Make them count.

### Project Review Presentations:

Monday, May 11, 12:00 p.m., 306 Borlaug Hall

**\*\*Crop/Weed Ecology of Agriculture Diversification -- Nick Jordan**

and

**\*\*Weed Management Strategies for Small Grain Production Systems -- Beverly Durgan**

### Ag Awareness

We need your help! Busloads of children will be arriving on campus next week to learn about agriculture. This is your opportunity to be of service and teach the next generation about where food really comes from. The grad students have designed an exciting new display - we just need some people from the department to explain it to the kids. Please sign up for an hour and a half on May 12, 13, or 14. Thank you!

The Ag Awareness Days Committee

## Seminars

May 7 **Biotechnology**, Peter Christie, Assembly of a contact-dependent transport system for delivery of DNA and proteins to eukaryotic cells, 3:30 p.m., D230 Mayo.

May 11 **Plant Molecular Genetics**, Zigang Cheng, Chris McCune, Terry Wilson, Tubulin and Dynein Genes of Arabidopsis, 12:00 p.m., 239 Gortner Lab.

**Agronomy**, Dr. Jim Anderson, Agriculture and Water Quality in Minnesota, 3:30 p.m., 306 Borlaug Hall.

May 12 **Plant Biological Sciences and Plant Molecular Genetics Institute Colloquium**, Scott Sattler, Role of GLABRA2 (GL2) in the trichome and seed coat mucilage development pathways of Arabidopsis, 3:30 p.m., 33 McNeal Hall.

May 14 **Biotechnology**, Ross Carlson, TBA, 3:30 p.m., 375 Borlaug Hall.

### Web Addresses

Semester transition web site is:

[www.opa.pres.umn.edu/semester/](http://www.opa.pres.umn.edu/semester/); advisor site is:

[www.opa.pres.umn.edu/advisors/](http://www.opa.pres.umn.edu/advisors/); student site is:

[www.opa.pres.umn.edu/students/](http://www.opa.pres.umn.edu/students/)

**Department Advisors:** Reserve May 8, 2:30 p.m., for AnPI Systems Adviser Semester Training. Location to be announced, and sponsored by the College.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**NORTH DAKOTA STATE UNIVERSITY**

Two weed scientist positions available. Position I: Weed Scientist in reduced and no-tillage, weed biology and weed resistance. Tenure-track, 90% research and 10% teaching. Weed science research on reduced tillage and no-tillage systems and research on weed biology and weed resistance.

Position II: Weed Scientist in weed control in small grains, sunflower, and minor crops. Tenure-track, 90% research and 10% teaching. Weed science research in small grains, sunflower, and minor crops using chemical, cultural, mechanical, and biological media.

**UNIVERSITY OF MAINE**

Assistant/Associate Professor, Sustainable Agriculture. Tenure-track, academic year appointment, 40% teaching and 60% research. Closing date: September 1, 1998.

**UNIVERSITY OF GEORGIA**

Research Scientist to manage research in weed/crop biology-ecology. Non-tenure track. Closing date: May 15, 1998.

**UNIVERSITY OF MINNESOTA**

Graduate Research Assistant, Minnesota Center for Survey Research. Create and maintain data files, analyze data, assist with survey design. Closing date: May 22, 1998.

**UNIVERSITY OF MINNESOTA EXTENSION**  
Extension Educator, Water Management Research and Education Coordination. Develop research and education programs to promote socially acceptable agricultural drainage programs.

Closing date: May 11, 1998.

**COLORADO STATE UNIVERSITY**

Research Associate, Potato Breeding and Selection Program, San Luis Valley Research Center. One-year appointment, non-tenure track. Field, greenhouse, and lab work to assist in development of improved potato cultivars.

Closing date: June 1, 1998

**UNIVERSITY OF MINNESOTA**

Assistant Professor of Barley Breeding and Genetics. Department of Agronomy and Plant Genetics. The complete job description can be found at <http://www.agronomy.org/personnel>. The job description will appear in the June issue of Agronomy News.

Closing date: July 31, 1998.

We seek everyone's assistance in identifying candidates for the barley breeding position.

**MSI INSURANCE**

Commercial Casualty Department. Investigation, evaluation, documentation, negotiation, and settlement of agricultural chemical, seed and animal feed claims involving property damage.

# Agronomy Gleanings

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University of Minnesota

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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

May 18, 1998

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## Announcements

Congratulations to Tammy and Kevin Dunrud on the birth of their third daughter, Andrea Nicole, on Thursday, May 14 at 10:28 a.m. She weighed 8 lbs, 1.6 oz., and is 21" long with a head full of blond hair. Big sisters Laura and Alyssa are thrilled that their baby sister has finally arrived. Tammy and Andrea are now at home and doing just fine.

Congratulations also to Deon Stuthman on the birth of his granddaughter, Carina Marie Anderson, who was born Sunday, May 17 at 4:30 p.m. She weighed 8 lbs, 13 oz. Best wishes to Carina's parents, Julie and Tim Anderson, and her older sister, Maren.

**Memorial Day** is Monday, May 25. The University of Minnesota will be closed.

Mark your calendars for the Annual Gopher Crops & Soils Club Steak Fry on Wednesday, May 27.

\*4:30-5:30 p.m. - Challenge volleyball with undergraduates vs. faculty and graduate students at St. Paul Campus volleyball sandpit.

\*5:30 - Steaks done the way you like them on Borlaug Hall Patio.

Cost - Faculty and Staff - \$3.00

Graduate Students - \$2.00

Undergraduates - \$1.00

Children under age 12 - free

Sign up with Lynne Medgaarden in 302 Hayes Hall by Monday, May 25.

The Annual Life Sciences Undergraduate Research Symposium is May 20 (Weds.) from 1:30-4:30 p.m. in the Ecology Building.

Gold Star Microwave for sale. 1.0 cubic foot. 21.4" x 12.8" x 14.8" (W-H-D). 650 watts of cooking power, turntable cooking, automatic start up to 12 hr, automatic defrost, weight 50 lb, 99m timer. MADE IN THE USA. \$99.00. Contact Kevin Cavanaugh, 625-2778, 203A Hayes Hall.

Housing needed: A graduate student from the Netherlands will be working in Dr. Jung's lab from the middle of September until early February. He is in need of a place to live during that time. If you have a room to rent please contact Dr. Hans Jung (5-8291).

The 4th International Conference on Precision Agriculture will be held July 19-22 at the Radisson Hotel in St. Paul. It will be a forum for presentations on the current status of precision agriculture research and application worldwide. Brochure available in Agronomy Main Office.

The next Agronomy preliminary written exam will be administered in early January 1999. The next Plant Breeding preliminary written exam will be given in February 1999. This will be the last opportunity to take the written prelim before the shift to semesters and implementation of the new merged graduate program in Applied Plant Sciences. As you know, the format for the written prelim will change substantially with the advent of the new program. Please contact Steve Simmons or Nancy Ehleke if you intend to take the prelim next winter.

If you are a graduate student seeking to conduct research or study outside the US, contact ISP. Caroline Anderson can help you conduct a search for funding sources to support your project and advise you of deadlines for major grant competitions: 626-9585; ander335@tc.umn.edu. Graduate students in any graduate or professional degree program can earn a minor in international education. The minor may include core courses in comparative education, critical issues in education, applied international development education, and area specific coursework - there are more than 20 courses to choose from. You can develop your own minor program in consultation with your major advisor, home department director of graduate studies (DGS) and director of graduate study for international education in the College of Education and Human development. Contact Michael Paige 626-7456.

#### Seminars

- May 18 Agronomy. Dr. Ray William, Dept. of Horticulture, Oregon State University. "Participatory Systems - Level Research on the Soil Food Web." 3:30 p.m., 306 Borlaug Hall.
- May 19 Plant Biological Sciences & Plant Molecular Genetics Institute Colloquium. "Genes Blossom from a Weed: The Arabidopsis Genome Initiative." Joe Ecker, Univ. of PA. 3:30 p.m., 33 McNeal Hall.
- May 20 MISA Joint Seminar Meeting. Carmen Fernholz and Pat Henderson. "The School of Agriculture Endowed Chair in Agricultural Systems." 1:30 - 3:30 p.m., St. Paul Student Center, Minnesota Commons Room. RSVP by May 18. 625-8235, fax: 625-1268, misamail@tc.umn.edu.
- May 21 Biotechnology. TBA. 3:30 p.m., Eustis Amphitheater D230 Mayo, Mpls. Campus.

The annual Agronomy and Plant Genetics "Fishing, Camping, and Leisure" trip is scheduled for June 12, 13, and 14 at Lake Bemidji State Park. I encourage you to consider joining us whether or not you like to fish. Lake Bemidji State Park has mountain bike and hiking trails including a bog walk, where bog plants should be in full bloom. The park also features a visitor center, a swimming beach, and boat rentals.

We have scheduled two "traditional" group activities; a Saturday night camp fire, and a Sunday morning "Potluck/Fishingluck" Brunch. All are welcome.

We have a primitive group camp reserved (under mature pines). The camp is reserved for the 11th as well for those arriving early. Those who would like more modern facilities or have RV's, you can reserve sites by calling the Connection at 922-9000. For those not into camping, Bemidji is only 5 miles away and offers hotel options. Call the Bemidji Area Chamber of Commerce at 1-800-458-2223 for more information.

More Details and sign-up information will be coming soon. -- Douglas Miller, 1998 Chairperson.

#### Project Review Presentations:

- Monday, May 18, 12:00 p.m., 306 Borlaug Hall.  
 \*\*Physiological, Biochemical, and Molecular Mechanisms Regulating Nitrogen and Phosphorous Acquisition and Use in Legumes -- Carroll Vance  
 \*\*Diversifying the Corn-Soybean Cropping System -- Paul Porter
- Tuesday, May 19, 12:00 p.m., 306 Borlaug Hall.  
 \*\*Molecular Cytogenetics in Plant Improvement -- Ron Phillips  
 \*\*Improving Forage Fiber Digestibility -- Hans Jung



## Shape-Up Challenge

### Week #5

This was the week of earning double points for the group, low sweat, some education, and lots of fun group activity. Lisa, our instructor, taught those participating four basic punches for doing boxing aerobics and reminded us about the importance of stretching muscles to maintain flexibility and avoid injury. With the exception of low sweat, our group expectations were met. Chilled flavored water quenched our thirst following the activity. Supportive comments from Lisa and the group make it a PLAN AGAIN next year activity.

One of the group activity participants was this week's 200+ points winner. Congratulations Jim Halgerson! Jim receives a \$20 gift certificate to the Olive Garden.

Top three high team averages after week #5 are G & L with 705 points, Bill's Team with 585 points, and Gene Busters with 518 points.

SHAPE-UP CHALLENGE CELEBRATION being planned for WEDNESDAY, MAY 27th. 3:00 p.m., 306 Borlaug Hall.

The purpose of the Shape-Up Challenge is to encourage participants to become fit by doing more physical activities and to recognize those that already are active. Come and celebrate six weeks of healthy physical activity. Grand prizes and miscellaneous awards to be presented. Refreshments will also be served.

-- Marilyn Swanson

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

### SOUTHWEST EXPERIMENT STATION, LAMBERTON

Soil Scientist Assistant Professor. For information, contact George Rehm in Soils. Closing date: May 31.

### MONSANTO COMPANY

Field Agronomist. For information contact Carol Fall at 314-878-2448.

### MICHIGAN INTEGRATED FOOD & FARMING SYSTEMS (MIFFS)

Executive Director for non-profit organization. Coordinate paid and volunteer staff, generate media attention, manage budget, etc. Closing date: June 15

### COLLEGE OF HUMAN ECOLOGY (U OF M)

Information Technology Professional (Help Desk Specialist). St. Paul Campus. Answer computer user questions, develop training programs, install and maintain software, etc.

### U.S. FISH AND WILDLIFE

Botanist working with *Zizania texana* (Texas wild rice). GS-11. San Marcos, TX. For information, refer to <http://www.usajobs.opm.gov/a8.htm> under "B" for Botanist.

### IOWA STATE UNIVERSITY

Postdoctoral scientist in weed management and biology. Iowa State/USDA-ARS National Soil Tilth Laboratory in Ames. 3-yr. position. Conduct research leading to development of cropping systems that optimize factors that negatively influence weed seed persistence and seedling establishment. Closing date: July 1

### NORTH CAROLINA STATE UNIVERSITY

Assistantship for study leading to the Ph.D. in Crop Science with emphasis on the biology, ecology, and management of woody vegetation in noncropland environments. Closing date: June 25.

### UNIVERSITY OF ILLINOIS, URBANA- CHAMPAIGN

Postdoc - Soybean Molecular Marker Mapping. Map genes controlling agronomic traits in populations developed through backcrossing genetic regions from *Glycine soja* into elite soybean germplasm.

### UNIVERSITY OF MISSOURI

Four Graduate Research Assistantships are available for study of insect population and community dynamics in agroforestry systems.

**Position Announcements continued**

**AERO (ALTERNATIVE ENERGY  
RESOURCES ORGANIZATION)**  
Executive Director to manage nonprofit  
organization: administration, program  
development, fundraising, outreach.

**RURAL DEVELOPMENT CENTER (RDC)**  
Outreach Coordinator to direct outreach,  
training, and technical assistance to Spanish  
speaking farmers.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics

University of Minnesota

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May 26, 1998

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## Announcements

There will be an electrical outage in Borlaug Hall on Friday, June 5 from 12:30 a.m. until 5 a.m. Please plan accordingly.

## Announcements from Academic and Distributed Computing:

You can now call for computer help in the evenings! ADCS helpline phones are currently staffed from 8 a.m. to 11 p.m., Monday through Thursday. On Fridays, calls are taken from 8 a.m. until 5 p.m. Call 626-4276 for help!

We are pleased to announce the new 56K modem pool is now in service. This modem pool supports the 56K v.90 standard. Dial 852-5252 to get a 56K connection.

A furnished condo is available to rent next year in downtown Mpls. Contact Stuart Albert at 624-5739 or [salbert@csom.umn.edu](mailto:salbert@csom.umn.edu) for details.

## Shape-Up Challenge notes:

Roger Becker won the drawing for the last week of the Shape-Up Challenge. Roger danced his way to earning points.

Mark your calendars: Wednesday, May 27 at 3:00 p.m. in 306 Borlaug will be the final Shape-Up Challenge Celebration. Join us for the final drawings and for cake and coffee.

Housing needed: A graduate student from the Netherlands will be working in Dr. Jung's lab from the middle of September until early February. He is in need of a place to live during that time. If you have a room to rent, please contact Dr. Hans Jung (5-8291).

Gold Star Microwave for sale. 1.0 cubic foot. 21.4" x 12.8" x 14.8" (W-H-D). 650 watts of cooking power, turntable cooking, automatic start up to 12 hr, automatic defrost, weight 50 lb, 99m timer. MADE IN THE USA. \$99.00. Contact Kevin Cavanaugh, 625-2778, 203A Hayes Hall.

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**Experiment Station Review Presentations:**  
Thursday, May 28, 12 noon, 306 Borlaug Hall:  
-- "Molecular Genetics of Barley and Wheat" by Gary Muehlbauer.  
-- "Physiology of Kernel Development in Maize" by Robert Jones.

The annual Agronomy & Plant Genetics "Fishing, Camping, and Leisure" trip is scheduled for June 12, 13, & 14 at Lake Bemidji State Park. I encourage you to consider joining us whether or not you like to fish. Lake Bemidji State Park has mountain bike & hiking trails including a bog walk, where bog plants should be in full bloom. The park also features a visitor center, a swimming beach, & boat rentals.

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More Details & sign-up information will be coming soon. -- Douglas Miller

#### **Seminars**

- May 26 Plant Biological Sciences Colloquium. Scott Sattler, PBS Grad. Program. "The Role of GLABRA2 (GL2) in the Trichome & Seed Coat Mucilage Development Pathways of Arabidopsis. 3:30 p.m., 33 McNeal Hall.
- May 27 Guy Stanton Ford Memorial Lecture. Berthold Hölldobler. "Communication in Ant Societies." 10:15 a.m., Bell Museum of Natural History Auditorium (Mpls. Campus East Bank).
- May 28 Biotechnology Seminar. Dr. Roberto Kolter, Harvard Medical School. "Survival Strategies from the Microbial World." 3:30 p.m., 375 Borlaug Hall.
- May 29 Thesis Defense. R.A. Narayanan. "Response of Transgenic Soybean Roots to Cyst Nematode Infection." 10:00 a.m., 306 Borlaug.
- June 1 Special Seminar. "Crisis in the Red River Valley: A Dialogue with Farmers & Other Citizens from the Valley." 2:45-5:00 p.m., 306 Borlaug. See fliers for complete schedule.

If you are a graduate student seeking to conduct research or study outside the US, contact ISP. Caroline Anderson can help you conduct a search for funding sources to support your project and advise you of deadlines for major grant competitions: 626-9585; ander335@tc.umn.edu. Graduate students in any graduate or professional degree program can earn a minor in international education. The minor may include core courses in comparative education, critical issues in education, applied international development education, and area specific coursework - there are more than 20 courses to choose from. You can develop your own minor program in consultation with your major advisor, home department director of graduate studies (DGS) and director of graduate study for international education in the College of Education and Human development. Contact Michael Paige 626-7456.

#### **Position Announcements**

**(Posted in notebook in 411 Borlaug Hall)**

##### **UNIVERSITY OF ARKANSAS**

Assistant/Associate Professor in Plant Molecular Biology. 12-month, tenure track. Develop and maintain research program in control/regulation of plant gene expression in a major crop species and the effects of altered gene expression on plant metabolism and physiology. Closing date: July 1, 1998.

**BUSCH AGRICULTURAL RESOURCES**  
Rice breeding position, Sacramento, California.

**UNIVERSITY OF NEBRASKA - LINCOLN**  
Research Technologist, Department of Agronomy. Provide technical research support for range/forage ecophysiology projects. Closing date: May 29, 1998.

##### **ZENECA AG PRODUCTS**

Associate Research Scientist for Western Research Center in Richmond, California. Design, conduct, and report lab and glasshouse plant science experiments with Zeneca products. Closing date: July 1998.

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# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)

June 1, 1998

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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### Announcements

Congratulations! Effective July 1, 1998, Dr. Nick Jordan will be promoted to associate professor with tenure, and Dr. Nancy Ehlke will be promoted to full professor. The Department joins the Board of Regents in extending congratulations to Drs. Jordan and Ehlke on their achievements.

Congratulations also to Kate Plaisance who was recently selected to receive the COAFES Distinguished Civil Service/Bargaining Unit Staff Award (scientific category). Kate, who is a Scientist in John Gronwald's lab, was selected to receive the award because of her many efforts to further the mission and goals of the Department of Agronomy and Plant Genetics and the College.

A laptop was stolen from an office last Thursday sometime between 2:00 and 4:00 p.m. Please remember to protect your valuables -- lock your doors when you leave your office/lab.

A white coffee carafe is missing from the kitchen in 306 Borlaug after last week's Shape-Up Challenge party. If you know where it is, please return it to Lynne Medgaarden or to the Main Office, or Student Services is likely to charge the department for it.

M.S. Thesis Defense: Ron Breegemann. "A Study of the Economic Improvement of the Addition of High Oil, High Moisture Ear Corn in a Dairy Diet." Monday, June 8, 9:00 a.m. 108 Peters Hall, Animal Science.

To all graduate students who have not yet taken Agro 5310, "Orientation to Minnesota Crop Production and Research Methods" -- The initial session of this year's class will meet on Tues., June 9 at 12:30 p.m. in 408 Hayes. We will deal with some business items including the summer tour and then depart for the Red Cardinal Farm (a CSA operation) just east of the Cities. We should return about 4 p.m. Any questions? Ask Jean Swanson or Deon Stuthman. Look in your email for more details about the course. Thank you -- Deon Stuthman.

The Grad Club held elections for officers on Friday, May 29 with the following results:

- President - Christine Handel
- Vice President - Emily Pullins
- Secretary - Kristen Corselius
- Treasurer - Mary Ann Start

Congratulations to all. Also, thanks to the outgoing officers:

- President - Ana Maria Procopiuk
- Vice President - Flavio Capettini
- Secretary - Joann Mudge
- Treasurer - Christine Handel

All of you did a fine job as officers of the Grad Club. The department appreciates the time and effort needed to hold these positions.

The Minnesota Agricultural Education Leadership Council (MAELC) has issued a request for proposals for grants to revitalize agricultural education in Minnesota. Grants will be awarded to support existing programs or for the establishment of new programs at the secondary and post-secondary levels. The RFP can be found at

<http://www.maelc.state.mn.us/maelc.html> and a packet of further information is available in the Agronomy Main Office.

There will be an electrical outage in Borlaug Hall Friday, June 5 from 12:30 a.m. until 5 a.m. Please plan accordingly.

A furnished condo is available to rent next year in downtown Mpls. Contact Stuart Albert at 624-5739 or salbert@csom.umn.edu for details.

If you are a graduate student seeking to conduct research or study outside the US, contact ISP. Caroline Anderson can help you conduct a search for funding sources to support your project and advise you of deadlines for major grant competitions: 626-9585; ander335@tc.umn.edu. Graduate students in any graduate or professional degree program can earn a minor in international education. The minor may include core courses in comparative education, critical issues in education, applied international development education, and area specific coursework - there are more than 20 courses to choose from. You can develop your own minor program in consultation with your major advisor, home department director of graduate studies (DGS) and director of graduate study for international education in the College of Education and Human development. Contact Michael Paige 626-7456.

#### **Seminars**

- June 1 Special Agronomy Seminar. "Crisis in the Red River Valley: A Dialogue with Farmers & Other Citizens from the Valley." 2:45-5:00 p.m., 306 Borlaug. See fliers for complete schedule.
- June 2 Plant Biological Sciences & Plant Molecular Genetics Colloquium. Munira Basrai. "Applications of serial analysis of gene expression (SAGE), a genome wide approach for differential gene expression and gene discovery." 3:30 p.m., 33 McNeal Hall
- June 4 Biotechnology. Eric E. Demaster, M.S. Candidate, Microbial Engineering. Topic TBA. 3:30 p.m., Eustis Amphitheater D230 Mayo, Mpls. Campus.

#### From Academic and Distributed Computing:

You can now call for computer help in the evenings! ADCS helpline phones are currently staffed from 8 a.m. to 11 p.m., Monday through Thursday. On Fridays, calls are taken from 8 a.m. until 5 p.m. Call 626-4276 for help!

We are pleased to announce the new 56K modem pool is now in service. This modem pool supports the 56K v.90 standard. Dial 852-5252 to get a 56K connection.

Gold Star Microwave for sale. 1.0 cubic foot. 21.4" x 12.8" x 14.8" (W-H-D). 650 watts of cooking power, turntable cooking, automatic start up to 12 hr, automatic defrost, weight 50 lb, 99m timer. \$99.00. Contact Kevin Cavanaugh, 625-2778, 203A Hayes Hall.

The 4th International Conference on Precision Agriculture will be held July 19-22 at the Radisson Hotel in St. Paul. Brochure available in Agronomy Main Office.

The next Agronomy preliminary written exam will be administered in early January 1999. The next Plant Breeding preliminary written exam will be given in February 1999. This will be the last opportunity to take the written prelim before the shift to semesters and implementation of the new merged graduate program in Applied Plant Sciences. As you know, the format for the written prelim will change substantially with the advent of the new program. Please contact Steve Simmons or Nancy Ehlke if you intend to take the prelim next winter.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

UTAH STATE UNIVERSITY - LOGAN  
Postdoc - Plant Genetics and Breeding. Join research team to investigate the origins of gametophytic apomixis in certain agamic complexes and to induce its expression in sexual species.  
Wish to fill by August 1.

UNIVERSITY OF GUELPH  
Assistant Professor - Cropping Systems  
Agronomist. Full-time, tenure track, 50% research/50% teaching. Teach agronomy and conduct research in conservation tillage and integrated management within cropping systems.  
Closing date: July 31, 1998.

CORNELL UNIVERSITY  
Assistant Professor - Small Fruits  
Breeding/Genetics. 12 month position, tenure track, 80% research/20% extension. Develop cultivars of commercial value, current emphasis on raspberries and strawberries.  
Closing date: July 27, 1998.

CORNELL UNIVERSITY  
Assistant Professor - Vegetable Crops Breeder.  
12 month position, tenure track, 80% research/20% teaching. Vegetable breeding addressing needs of NY crucifer industry.  
Closing date: August 15, 1998.

# Agronomy Gleanings

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University of Minnesota

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June 8, 1998

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## Announcements

The Department of Agronomy and Plant Genetics invites you to a coffee and cookies reception for Dr. Tabare Abadie on Tues., June 9 at 10:15 a.m. in 306 Borlaug. Dr. Abadie is visiting to develop the cooperative agreement between Uruguay's INIA and the COAFES. If you would like to meet with Dr. Abadie while he is here (June 9 - June 15), please contact Deon Stuthman.

The Southwest Experiment Station in Lamberton will have their Field Day on Wednesday, June 24. Registration begins at 7:30 a.m. Tours start at 8:00 a.m. and end at 3:00 p.m. For more information, please see the flier available in the Agronomy Main Office.

The Field Day in Morris will be held Thursday, June 9.

## Twin Cities Campus Calendar, 1998-1999

July 3, 1998	Friday	Independence Day
Sept. 7	Monday	Labor Day
Nov. 26	Thursday	Thanksgiving Day
*Nov. 27	Friday	Floating Holiday
*Dec. 24	Thursday	Floating Holiday
Dec. 25	Friday	Christmas Day
Jan. 1, 1999	Friday	New Year's Day
Jan. 18	Monday	Martin Luther King Day
Mar. 26	Friday	Floating Holiday
May 31	Monday	Memorial Day

\*applies to civil service and non-academic bargaining unit employees

To all graduate students who have not yet taken Agro 5310, "Orientation to Minnesota Crop Production and Research Methods" -- The initial session of this year's class will meet on Tues., June 9 at 12:30 p.m. in 408 Hayes. We will deal with some business items including the summer tour and then depart for the Red Cardinal Farm (a CSA operation) just east of the Cities. We should return about 4 p.m. Any questions? Ask Jean Swanson or Deon Stuthman. Look in your email for more details about the course. Thank you -- Deon Stuthman.

## Seminars

- June 8 Rescheduled Agronomy Seminar. Tom Hoverstad, Southern Exp. St., Waseca. "Research on Narrow Row Corn Production at the University of Minnesota." 3:30 p.m., 306 Borlaug.
- June 9 Project Seminar. Hans Jung. "Improving Forage Fiber Digestibility." 12:00 noon, 306 Borlaug.
- June 9 Plant Biological Sciences and Plant Molecular Genetics Colloquium. Ernie Retzel, University of MN Medical School. "Warehouse Shopping in the Plant Genome Projects: Databases, Clustering, and Visualization." 3:30 p.m., 33 McNeal Hall.



**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**KANSAS STATE UNIVERSITY**

--Research Assistant, Department of Agronomy. Collect data, establish and maintain field and greenhouse research in gene flow, distribution, growth, and competitiveness of imazethapyr-resistant common sunflower.

Closing date: June 9, 1998.

--Research Associate - Micrometeorology, Department of Agronomy. Supervise field research on carbon, water, and energy transport in juniperus forest and prairie ecosystems.

Closing date: July 15, 1998.

**FAIRLAND MANAGEMENT COMPANY**

Farm Management Advisor. Contact Paul Porter for more information.

**ALABAMA COOPERATIVE EXTENSION SYSTEM**

County Extension Agent in Dale County, Ozark, AL. Plan, implement, and evaluate Extension educational programs, largely but not exclusively in sustainable agriculture.

Closing date: June 23, 1998.

**MONSANTO COMPANY**

Soybean Breeder or Geneticist at Agracetus Campus (Middleton, WI). Coordinate greenhouse and field development of promising nutritional traits developed through transformation. See Don Rasmusson (or posting in 411) for details.

Closing date: July 1, 1998.

**UNIVERSITY OF CALIFORNIA - DAVIS**

Assistant Cooperative Extension Vegetable Specialist. 11-month, career track. Research, outreach, and education. Located at the UC/USDA Research Center in Salinas.

Emphasis on economically and environmentally sound soil, nutrient, water, and crop management practices for cool-season vegetable production.

Closing date: September 1, 1998.

**PIONEER HI-BRED INTERNATIONAL**

--Research Coordinator, Itumbiara, Brazil. Lead team responsible for evaluation, characterization, and delivery of new products to sales

Closing date: June 30, 1998.

--Senior Research Associate, Johnston, IA.

Coordinate movement of seed and information necessary for deploying new traits and technologies to markets in Late Maize areas.

Closing date: June 19, 1998.

**WESTVACO FOREST SCIENCE & TECHNOLOGY**

Research Specialists:

--Molecular Biology (3 positions). One position in flower development, one in DNA marker analysis, and one (requiring a Master's degree) in molecular biology of flower development.

--Tree Tissue Culture (2 positions). Pine somatic embryogenesis/organogenesis and hardwood tissue culture.

Closing date: July 31, 1998.

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# Agronomy Gleanings

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University of Minnesota

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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

June 15, 1998

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## Announcements

Dr. Vernon Cardwell was named Outstanding Club Advisor by the Ag Board at the COAFES graduation ceremonies Sunday, June 7. He was nominated by the Gopher Crops and Soils Club members. Congratulations!

Please welcome Krishona Bjork to the department. She is a new graduate student working toward the M.S. in Agronomy with Bev Durgan and Jeff Gunsolus. She recently completed her B.S. at the University of Wisconsin - River Falls. Her office is 306 Hayes Hall.

A reception honoring the winners of the 1998 COAFES Distinguished Staff Awards will be held Tuesday, June 30 from 10:00 - 11:00 a.m. in the Minnesota Commons at the St. Paul Student Center. Kate Plaisance, a scientist in Dr. Gronwald's lab, will receive the Civil Service/Bargaining Unit Staff Award (scientific category).

Even though it is not quite summer, the date for the Fall Social has been set. Please mark your calendars and plan to attend the Fall Social on Tuesday, September 29 from 3:00 - 4:30 p.m. Thanks -- your ever-efficient Social Committee.

Experiment Station Field Days (Note: dates/times listed here are corrections over the announcement in last week's Gleanings).

Southern Exp. Station, Waseca:

Tuesday, June 23. Registration: 7:30 a.m.,

Field Day: 8:00 a.m. - 2:30 p.m.

Southwest Exp. Station, Lamberton:

Wednesday, June 24. Tours 8:00 a.m. - 3:00 p.m.

Morris and Crookston: Thursday, July 9.

Please welcome three new French summer intern students to the department: Ghislain Rubio, Nicolas Cayzeel, and Sylvain Lucas. They will be here for at least 10 weeks, all on one of the oat projects. -- Deon Stuthman

Pipet Boxes Loaded (\$0.40 per box). If you are tired of loading pipet boxes, I know a boy who enjoys it, especially for \$0.40 per box (he does a great job). He can do it with gloves on if desired. Talk to Russell Rasmussen (lab 543) or call 647-9176 and talk to Chantry.

## Twin Cities Campus Calendar, 1998-1999

July 3, 1998	Friday	Independence Day
Sept. 7	Monday	Labor Day
Nov. 26	Thursday	Thanksgiving Day
*Nov. 27	Friday	Floating Holiday
*Dec. 24	Thursday	Floating Holiday
Dec. 25	Friday	Christmas Day
Jan. 1, 1999	Friday	New Year's Day
Jan. 18	Monday	Martin Luther King Day
Mar. 26	Friday	Floating Holiday
May 31	Monday	Memorial Day

\*applies to civil service and non-academic bargaining unit employees

GREENHOUSE USERS: I will be gone the following Fridays: June 19th and 26th, July 10th and 24th. Everybody needs to do their own watering. Please take this time to do some clean-up in the greenhouses. Thanks! -- Pam Altermatt

## Seminars

June 24 Defense Seminar. Teresa Pawlowska, Graduate Assistant, Plant Biological Sciences. "Interactions of Arbuscular Mycorrhizal Fungi with Heavy Metals." 1:00 p.m., 306 Borlaug Hall.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**UNIVERSITY OF DELAWARE**

--Assistant Professor - Plant Biologist.  
--Assistant Professor - Plant Developmental Biologist.

Individuals selected for both positions must develop strong, extramurally-funded research programs. Both are 9-month, tenure-track appointments, and teaching obligations will be arranged based on individual background and university needs.

Closing date: September 30, 1998.

**PIONEER HI-BRED**

--Research Associate, Algona, Iowa. Provide support for Algona Research Center and Mid-Maturity Product Development Program.

Closing date: July 15, 1998.

--Research Associate, York, Nebraska. Provide support for the York Research Center Elite Grain and the Mid-Maize Region Insect Resistance Product Development programs.

Closing date: July 1, 1998

**PENNSYLVANIA STATE UNIVERSITY**

Postdoctoral Position in Tomato Genetics and Breeding. Molecular mapping and marker-assisted selection of biotic and abiotic stress resistance/tolerance in tomato.

**UNIVERSITY OF VERMONT - EXTENSION**

Northwest Regional Chair. Deliver an educational program while supporting the approximately 30 staff and faculty in the Region. Closing date: August 3, 1998.

**UNIVERSITY OF ILLINOIS**

Assistant/Associate Professor of Vegetable and Fruit Crop Pathology, Department of Crop Sciences. 9-month, tenure track, 75% extension and 25% research. Develop education and research programs directed at integrated management of important vegetable/fruit diseases.

Closing date: October 15, 1998.

**COLORADO STATE UNIVERSITY**

Associate Professor - Wheat Breeding/Genetics. Dept. of Soil and Crop Sciences. 9-month, tenure track, 70% research and 30% teaching. Research program in winter and spring red and white wheat breeding and genetics directed toward germplasm and cultivar development.

Closing date: September 15, 1998.

# Agronomy Gleanings

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June 22, 1998

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Dear Department,

It is with deep and mixed emotions that I inform you that I am resigning from the Department. I have accepted the position of Dean of the College of Biology and Agriculture at Brigham Young University in Provo, Utah. This represents a growth and service opportunity that I feel very good about accepting. It also brings an end to my 30 years of association with this absolutely wonderful Department. I have now experienced "gut wrenching," having literally been traumatized by stomach pains throughout the past week as I have determined how to respond to BYU's offer.

A faculty meeting will be held on Monday the 22nd at 4:00 p.m. in 306 Borlaug. Mike Martin will be present to discuss transition arrangements with us. I am confident that all of the activities, projects, initiatives, and routine that have brought us renown in the past -- as well as optimism about our future -- will most certainly continue.

-- Kent Crookston

## Announcements

A group of Iowa State students will be visiting June 25 and 26. Please join us at Lauderdale City Park on the 25 (Thurs.) at 6:00 p.m. for a picnic to welcome these students. The park is located just south of Roselawn Ave. and across the street from the NW corner of the University Golf Course. Contact Cristine Handel or Deon Stuthman if you have any questions.

Even though it is not quite summer, the date for the Fall Social has been set. Please mark your calendars and plan to attend the Fall Social on Tuesday, September 29 from 3:00 - 4:30 p.m. Thanks -- your ever-efficient Social Committee.

Gail Skinner-West, Associate Dean and Director of the U of M Extension Service, has decided to accept the interim deanship of University College. There will be a reception in her honor on Wednesday, June 24 from 2:00 to 4:00 p.m. in the Earle Brown Center Reception Area. Mementos are being collected for a memory book, and a five-dollar contribution toward the cost of the reception is also requested. Please RSVP to Julie Medbery, 240 Coffey Hall, 4-9725.

A reception honoring the winners of the 1998 COAFES Distinguished Staff Awards will be held Tuesday, June 30 from 10:00 - 11:00 a.m. in the Minnesota Commons at the St. Paul Student Center. Kate Plaisance, a scientist in Dr. Gronwald's lab, will receive the Civil Service/Bargaining Unit Staff Award (scientific category).

## Experiment Station Field Days

Southern Exp. Station, Waseca:

Tuesday, June 23. Registration: 7:30 a.m.,

Field Day: 8:00 a.m. - 2:30 p.m.

Southwest Exp. Station, Lamberton:

Wednesday, June 24. Tours 8:00 a.m. - 3:00 p.m.

Morris and Crookston: Thursday, July 9.

Pipet Boxes Loaded (\$0.40 per box). If you are tired of loading pipet boxes, I know a boy who enjoys it, especially for \$0.40 per box (he does a great job). He can do it with gloves on if desired. Talk to Russell Rasmussen (lab 543) or call 647-9176 and talk to Chantry.

**GREENHOUSE USERS:** I will be gone the following Fridays: June 19th and 26th, July 10th and 24th. Everybody needs to do their own watering. Please take this time to do some clean-up in the greenhouses. Thanks! -- Pam Altermatt

Incoming International Students and Advisors: Please note -- Temporary summer housing is available through the MN International Student Association (MISA) and International Student and Scholar Services (ISSS). Information about location and rates is available in the main office or by contacting Lynne Medgaarden.

### Seminars

- June 24 **Defense Seminar.** Teresa Pawlowska, Graduate Assistant, Plant Biological Sciences. "Interactions of Arbuscular Mycorrhizal Fungi with Heavy Metals." 1:00 p.m., 306 Borlaug Hall.
- June 25 **Project Review Seminar.** Christian Thill. "Potato Breeding in Genetics." 12:00 noon, 310 Alderman Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY - POMONA**  
Asst./Assoc. Professor of Agronomy/Soil Science. Tenure track. Undergrad and graduate teaching. Research opportunities.  
Closing date: July 15, 1998.

**LUTHER COLLEGE**  
Assistant Professor - Biology. Tenure eligible. Teach Genetics and Microbiology, team-teach Principles of Biology. Direct undergrad research, seek funding for research.  
Closing date: September 1, 1998.

**LUTHER COLLEGE**  
Assistant Professor - Psychology. Tenure eligible. Teach Statistics, Cognition, and either Sensation/Perception or Psycholinguistics. Team teach General Psychology.  
Closing date: October 15, 1998.

**UNIVERSITY OF ILLINOIS**  
Postdoctoral Research Associate - Plant Biotechnology. Research in the area of promoter, transient, and stable expression and selectable marker optimization using several different plant species systems.  
Closing date: July 15, 1998.

**NORTHEAST WISCONSIN TECHNICAL COLLEGE**  
Agronomy/Agriculture Instructor. Manage instructional process for all agronomy and related soils instruction district-wide. Work with college faculty as well as community groups and local agri-businesses.

# Agronomy Gleanings

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June 29, 1998

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Dear Department:

We have just learned that Vern Cardwell has been elected President-Elect of the American Society of Agronomy, and Ron Phillips has been elected President-Elect of the Crop Science Society of America. This brings deserved recognition to Vern and Ron. If we have it figured right, both Vern and Ron will be serving as President when the ASA meetings are held in Minneapolis.

I'm sure you will join me in extending congratulations and support to our two ambassadors.

--Kent Crookston

## Announcements

**DEPARTMENTAL PURCHASE ORDERS:** Beginning July 1, 1998, departmental purchase order procedures will undergo the following changes: 1) No additional typing drafts to 3 carbon forms. The copy turned in to the accounting office will be the ONLY copy. 2) A log will be kept of all purchase order requests. You will be asked to enter the date, your name & phone #, the vendor name, & a CUFS #. 3) Once you have placed your order, turn in the P.O. to the accounting office. Vendors requiring a hard copy will be faxed or mailed a copy by the accounting office. Please note such requests on the top of the form.

PLEASE DISCARD ALL OLD P.O. FORMS.

Congratulations to Hans Jung (Agronomy) & Michael Russelle (Soils) of the ARS Plant Science Research Unit on their recent promotions!

A farewell coffee will be held in honor of Isabel Vales on Wednesday, July 1 at 3:00 p.m. in 306 Borlaug Hall.

The St. Paul Bookstore closes for inventory at noon on Monday, June 29 & will reopen at 9 a.m. on Wednesday, July 1.

The St. Paul Campus water pumps will be tested Wednesday, July 1 and Thursday, July 2 from 7:30 a.m. until 4:00 p.m., which may cause slight fluctuations in water pressure. Call Fred Clayton, 4-2288, with questions.

A reception honoring the winners of the 1998 COAFES Distinguished Staff Awards will be held Tuesday, June 30 from 10:00 - 11:00 a.m. in the Minnesota Commons at the St. Paul Student Center. Kate Plaisance, a scientist in Dr. Gronwald's lab, will receive the Civil Service/Bargaining Unit Staff Award (scientific category).

### Experiment Station Field Days

Morris: Thursday, July 9.

Crookston: Thursday, July 9. Two tours: "Small Grain & Sugarbeet Weed Control," 12:45 p.m., & "Small Grains Field Tour," 3:30 p.m. BBQ supper to follow. More information available in main office.

Incoming International Students and Advisors: Please note -- Temporary summer housing is available through the MN International Student Association (MISA) and International Student and Scholar Services (ISSS). Information about location and rates is available in the main office or by contacting Lynne Medgaarden.

### Seminars

July 2 "Root Exudates in the Rhizosphere: Organic Acids, Water, and Mucilages." Michelle Watt, Ph.D. Candidate. Australian National University. 10:00 a.m., 375 Borlaug Hall.

### Position Announcements

(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF WISCONSIN –  
EXTENSION/DOOR COUNTY  
Agriculture Educator (Crops and Soils). Design, facilitate, teach, and evaluate educational programs for Door County. Tenure track.  
Closing date: July 17, 1998.

UNIVERSITY OF WISCONSIN –  
EXTENSION/RUSK COUNTY  
Agriculture Agent. Design, facilitate, teach, and evaluate educational programs in generalized areas including animal and plant science, etc. Tenure track.  
Closing date: July 27, 1998.

OREGON STATE UNIVERSITY  
Faculty Research Assistant, Cereal Genetics and Biotechnology. Manage laboratory and perform research in molecular genetics, DNA marker mapping, and genetic engineering.  
Closing date: July 25, 1998.

UNIVERSITY OF ILLINOIS  
Post-doc. Investigate significance of location, activity, and control of nitrate reductase in plants using mutants and transformants of Arabidopsis and pea with engineered NR expression.

DELTA & PINE LAND COMPANY  
Molecular Cotton Breeder. Develop and integrate molecular markers into existing transgenic and conventional cotton breeding programs.

UNIVERSITY OF NEVADA  
Dean and Director of Cooperative Extension. Develop and deliver extension programs throughout Nevada. Cooperate with communities, researchers, etc.  
Closing date: July 10, 1998.

KANSAS STATE UNIVERSITY  
Graduate Research Assistant, Dept. of Agronomy. Complete course work toward MS or Ph.D. and conduct research in range improvement or forage management.  
Closing date: August 1, 1998.

UNIVERSITY OF ARKANSAS  
Asst./Assoc. Professor of Plant Molecular Biology. 12-month, tenure track. Research and teaching in plant gene expression, biotechnology, etc.  
Closing date: July 1, 1998.

OREGON STATE UNIVERSITY  
Asst., Assoc., or Full Professor of Soil Physics, Dept. of Crop and Soil Sciences. Develop soil physics research program, provide undergrad and graduate teaching program, and participate in interdisciplinary activities throughout Oregon.  
Closing date: August 15, 1998.

# Agronomy Gleanings

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University of Minnesota

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July 6, 1998

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## Announcements

Congratulations to Flavio Capettini and Sylvia Maquiera on the birth of their daughter Sofia! Sofia was born on July 1st and the happy family is already home.

The following note of thanks was received by Deon Stuthman from Michael Lee, a professor in the Dept. of Agronomy at Iowa State:  
"On behalf of the students from ISU, I would like to thank you and your colleagues for arranging the tour for us. All sessions were very informative and all speakers were quite successful in conveying the technical aspects of, as well as their enthusiasm for, their work. The department is obviously a very busy place and so we are especially grateful that so many persons were willing to take time from their busy schedules to meet with us. Also, the excellent lunch, the picnic, and opportunity to 'socialize' were appreciated very much."

The Statement of Cooperation between the Republic of Senegal and the U of M Colleges of Agricultural, Food, and Environmental Sciences and Natural Resources will be signed in a special ceremony on Thursday, July 9, at 9:00 a.m., 274 McNeal Hall. All are welcome to attend.

## Experiment Station Field Days

Morris: Thursday, July 9.

Crookston: Thursday, July 9. Two tours: "Small Grain & Sugarbeet Weed Control," 12:45 p.m., & "Small Grains Field Tour," 3:30 p.m. BBQ supper to follow. More information available in main office.

## DEPARTMENTAL PURCHASE ORDERS:

Beginning July 1, 1998, departmental purchase order procedures will undergo the following changes: 1) No additional typing drafts to 3 carbon forms. The copy turned in to the accounting office will be the ONLY copy. 2) A log will be kept of all purchase order requests. You will be asked to enter the date, your name & phone #, the vendor name, & a CUFS #. 3) Once you have placed your order, turn in the P.O. to the accounting office. Vendors requiring a hard copy will be faxed or mailed a copy by the accounting office. Please note such requests on the top of the form.

PLEASE DISCARD ALL OLD P.O. FORMS.

The Plant Biological Sciences graduate program at the University of Minnesota will award USDA National Needs Fellowships for doctoral students interested in Plant Biotechnology. The Fellowship awards provide an annual stipend of \$17,000 for 3 years plus tuition waiver beginning September 1999. An additional 2 years of support will be available. Applicants must be US citizens or US nationals and have an interest in training and a career in some aspect of plant biotechnology. Women and minorities are encouraged to apply. Completed applications must be received by December 15, 1998. Information about application forms and participating faculty is available in the main office.



**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**OREGON STATE UNIVERSITY**

Research Assistant in Weed Science. 12-month appt. Assist with design, establishment, data collection, analysis, and summarization field/greenhouse/growth chamber studies in the areas of weed ecology, biology, and management in dryland cropping systems.

Closing date: August 1, 1998.

**KANSAS STATE UNIVERSITY**

Department of Horticulture, Forestry, and Recreational Resources. Director for the John C. Pair Research/Extension Center (30%) and Research/Extension Faculty appt. (45% research/25% extension). Rank of Assoc. or Full Professor.

Closing date: October 1, 1998.

**KANSAS STATE UNIVERSITY**

Research Assistant, Soil Science, Dept. of Agronomy. Coordinate analysis of soil and water samples from water quality studies.

Closing date: August 10, 1998.

miw  
B. Ag. Sta.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics -- University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)  
July 13, 1998

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

Please join us in saying farewell to R. Kent Crookston before he leaves to take his position as Dean of the College of Biology and Agriculture at Brigham Young University in Provo, Utah. Open house: Thursday, July 30, 1998, 3-5 p.m., 306 Borlaug Hall. Refreshments will be served. If you have any questions, please contact Julie or Jean in the main office (5-7773).

A fellowship for graduate research in Germany is available through the Deutscher Akademischer Austauschdienst (DAAD -- German Academic Exchange Service). Information about the application procedure is available in the main office (applications due September 25, 1998), and information about the program can be found at <http://www.daad.org>.

**CALL FOR PROPOSALS: USDA/CSREES - Pest Management Alternatives Research: Special Program Addressing Food Quality Protection Act issues for Fiscal Year 1998.** Proposals are due July 20. See Jeanne Davy for detailed information.

The Plant Biological Sciences graduate program at the University of Minnesota will award USDA National Needs Fellowships for doctoral students interested in Plant Biotechnology. The Fellowship awards provide an annual stipend of \$17,000 for 3 years plus tuition waiver beginning September 1999. An additional 2 years of support will be available. Applicants must be US citizens or US nationals and have an interest in training and a career in some aspect of plant biotechnology. Women and minorities are encouraged to apply. Completed applications must be received by December 15, 1998. Information about application forms and participating faculty is available in the main office.

## Position Announcements

(Posted in notebook in 411 Borlaug Hall)

TEXAS A&M UNIVERSITY R.E.C. -- Dallas  
Assistant/Associate Professor of Soil & Crop Science for statewide soybean program. 80% research/20% teaching. Based in Dallas with teaching assignment at TAMU Commerce Campus, approximately 60 miles east of the city. Closing date: July 30, 1998.

UNIVERSITY OF ILLINOIS -- Urbana-Champaign.  
9-month, tenure track Assistant Professor/Extension Specialist position in Urban Plant Health Care (IPM). 70% extension/30% research. Closing date: September 1, 1998.

KANSAS CROP IMPROVEMENT ASSOCIATION  
Executive Director. Provide executive leadership, coordinate day-to-day operations of the association, develop/implement administrative policies, represent association with other agencies. Closing date: September 1, 1998.

PURDUE UNIVERSITY  
Assistant Professor of Weed Science. Tenure track. Provide leadership for educational programs in weed science, develop & implement new technologies in conservation tillage, adoption of biotechnology in weed management, etc. Closing date: December 31, 1998.

CUBAN ORGANIC FARMING EXCHANGE PROGRAM  
Program Assistant. Half-time. Organize delegations to & from Cuba & the US, provide technical & bibliographic support, provide bridge between this & other international organizations, advocate for change in US/Cuba foreign policy, etc.

UNIVERSITY OF KENTUCKY  
2 positions:  
--Assistant Professor in Soil/Water Biochemistry. 12-month, tenure-track, 80% research/20% teaching. Possible research includes: chemistry & metabolism of organic materials in soils, remediation of land affected by waste, interaction & transport of organic material with metals, microbes, & pesticides, etc. Closing date: September 1, 1998.  
--Assistant Professor in Soil/Water Conservation & Management. 12-month, tenure-track, 80% research/20% teaching. Possible research includes: conservation tillage, crop residue management, site-specific management, & soil compaction. Closing date: September 1, 1998.

CROP CHARACTERISTICS, INC.  
Farmington, MN. Research Assistant, Agronomy. Maintain field test plots and assist with field and growth chamber tests. Closing date: October 15, 1998.

miw  
8/1/98

# Agronomy Gleanings

Department of Agronomy and Plant Genetics -- University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)  
July 20, 1998

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## Announcements

By the end of July the horse barn, adjacent to lot SC163, will be demolished for parking lot expansion. Contract parking will not be disrupted during this process. The next phase will be complete reconstruction of the lot to include soil correction, drainage, resurfacing, new lighting, curbs and gutters, and a sidewalk. This will take about one month and should be completed by the start of school. It will be necessary to temporarily relocate everyone during lot reconstruction. Please park in lot S-102, and remember to display your hangtag. By early August, signs will be posted at the entrance of SC163 regarding the specific date to move to lot S-102.

Please join us in saying farewell to R. Kent Crookston before he leaves to take his position as Dean of the College of Biology and Agriculture at Brigham Young University in Provo, Utah. Open house: Thursday, July 30, 1998, 3-5 p.m., 306 Borlaug Hall. Refreshments will be served. If you have any questions, please contact Julie or Jean in the main office (5-7773).

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Bob Busch has been named the USDA-ARS "Midwest Area Scientist of the Year." Congratulations, Bob!

News from an alumnus: The department recently heard from Lu (Aluizio) Oliveira, a former student of Dr. Rasmusson's. After finishing his Ph.D. here in 1993, Lu returned to Brazil to teach at the Federal University in Vicosa. Lu has published several important works in Brazil, including a plant breeding textbook and a glossary of crop science terms. Another book is in progress, this one a cooperative effort with Drs. Luiz Federizzi and Sandra Milach, both at the University of Rio Grande do Sul in Brazil. Lu served as president of BIOWORK, the international workshop on Biosafety and Plant Variety Protection, and is currently organizing BIOWORK II, which will be held March 2 and 3, 1999 (Dr. Ronald Phillips, Dr. Steve Tanksley, and Dr. Hartwig Geiger are among the presenters planned for this event). Lu and his wife, who also studied at the U (she earned an MS in Pediatric Dentistry), have fond memories of the Twin Cities. Two of their three children were born here, and Lu says that the knowledge and excitement for science he got at the University are vital to his current achievements and pursuits.

The new 651 area code for St. Paul and surrounding communities will NOT affect dialing of campus numbers; the area code for all campus numbers will still be 612. You may use 5-digit dialing as usual. If you are calling from 651 to campus, remember to dial 612+7-digit phone number (do not use "1"). This applies to modem pool dialing, too. For more information, see [www.nts.umn.edu/areacodes.html](http://www.nts.umn.edu/areacodes.html).

## Seminar

July 23 Dr. Sharon Papiernik, USDA-ARS, Riverside, CA. "In Situ Measurements of Herbicide Fate and Transport in Alluvial Aquifers." 10:00 a.m., 375 Borlaug Hall. If you are interested in talking to Dr. Papiernik on an individual basis, please contact Bill Koskinen (Soils) at 5-4276.

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF MINNESOTA -  
DEPT. OF PLANT PATHOLOGY  
Postdoctoral Associate in molecular biology and plant physiology. Evaluate the effect of expression of genes for organic acid synthesis on tolerance to aluminum and acid soils in transgenic alfalfa plants.

UNIVERSITY OF MINNESOTA -  
DEPT. OF ANIMAL SCIENCE  
Assistant Professor in Swine Nutrition, 12-month, tenure track. Conduct research pertaining to improving the efficiency of dietary nutrient utilization and reducing adverse environmental impacts associated with manure components, etc. Application deadline: October 1, 1998.

UNIVERSITY OF MINNESOTA  
GRADUATE SCHOOL  
Assistant Vice President for Research and Associate Dean of the Graduate School. Develop, coordinate, and implement University research policies, as well as assisting with the oversight of graduate education, research centers, research awards, tenure reviews, etc. \*This is a search within the U only. Application deadline: July 24, 1998.

UNIVERSITY OF MINNESOTA  
EXTENSION SERVICE  
Executive Director of the Southeast Regional Agricultural Tourism and Natural Resources Task Force. Create partnership between the University and the people of Southeastern MN (one of three regional directors in the state). Application deadline: August 14, 1998.

COMMUNITY INVOLVED IN SUSTAINING AGRICULTURE (CISA) (Amherst, MA)  
-- Programs and Membership Coordinator. Develop and implement member recruitment strategies, plan public and member events, maintain relationships with funders, other general duties pertaining to administration of non-profit organization. Application deadline: July 27, 1998.  
-- Program Assistant. Assist with marketing campaign as well as helping Program Coordinator in event planning and membership tracking, etc. Application deadline: July 27, 1998.

UNIV. OF NEBRASKA - LINCOLN, INST. OF AGRICULTURE & NATURAL RESOURCES  
Assist./Assoc. Professor, Soil Fertility and Integrated Nutrient Management. Tenure leading, 70% research and 30% extension. Primary research objectives: development of nutrient management recommendations to increase nutrient-use efficiency and prediction of longer term effects of nutrient management on soil fertility and quality. Application deadline: October 30, 1998.

UNIV. OF NEBRASKA-LINCOLN, INST. OF AGRICULTURE & NATURAL RESOURCES  
Research Technologist to conduct and supervise wheat research program, particularly field research. Application deadline: July 24, 1998.

USDA-ARS WIND EROSION RES. UNIT  
(Manhattan, Kansas) Research Associate to design and develop a standing residue meter applicable for field use. Application deadline: August 10, 1998.

MONSANTO COMPANY - AGRACETUS  
(Middleton, Wisconsin) Rice Breeder/Geneticist to coordinate greenhouse activities, field trials, and winter nurseries, and to manage external relationships with plant breeders. Application deadline: August 10, 1998.

PIONEER HI-BRED  
Research Associate, Trait and Technology Development, Quality Traits. Screen and characterize transgenic plants for protein expression and modification of metabolism, isolate protein for production and testing of antibodies, and other related duties.

NORTH CAROLINA STATE UNIVERSITY  
Professor and Head of the Department of Crop Science. Administer teaching, research, and extension activities. Key role in recruitment, program planning, and budgetary matters. Represent the department to University, industry, and community leaders. Application deadline: September 15, 1998.

miw  
J Ag Sea

# Agronomy Gleanings

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411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)

July 27, 1998

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## Announcements

Please join us for the **Annual Corn Feed** on Friday, July 31, 12 noon, in 306 Borlaug. The cost is \$3 for hot dogs, cucumbers, tomatoes, coffee, lemonade, and all the corn you can eat!

Attention all persons using FedEx to send letters and packages: Be sure to complete airbill and return top copy (white sheet labeled "sender's copy") to the accounting office (408 BH) or the mailbox in 411 BH. This step is necessary to insure that costs will be charged to the correct account. Your cooperation will be appreciated.

The University will be responsible for a booth in the Education Building at the Minnesota State Fair, and University Relations is looking for volunteers to staff it. Volunteers receive a free T-shirt as well as paid admission to the fair on the day they work. Additional information and a sign-up form are available in the main office.

NCR SARE has issued a call for preproposals for 1999 research and education. The application deadline is September 11, 1998. For more information, or to receive an application, contact:

North Central Region SARE  
University of Nebraska  
13A Activities Bldg.  
Lincoln, NE 68583-0840  
402-472-7081  
402-472-0280 (fax)  
[sare001@unlvm.unl.edu](mailto:sare001@unlvm.unl.edu)

Please join us in saying farewell to R. Kent Crookston before he leaves to take his position as Dean of the College of Biology and Agriculture at Brigham Young University in Provo, Utah. Open house: Thursday, July 30, 1998, 3-5 p.m., 306 Borlaug Hall. Refreshments will be served. If you have any questions, please contact Julie or Jean in the main office (5-7773).

## IN THE NEWS

An article in the July 9 edition of the *Focus News* noted Dale Hicks' 27 years of service to the community of Arden Hills as a member of the city's planning and finance commissions and the city council. Although Dr. Hicks enjoyed his years of participation in city planning, he resigned his post this year so that he and his wife, Claudia, can move to their farm outside of New Richmond, Wisconsin.

### Ph.D. Thesis Seminar

Jeff McElroy. Enhancing Midwestern Malting Barley by Introgression of Two-Row Germplasm. July 31, 10:00 a.m., 306 Borlaug.

By the end of July the horse barn, adjacent to lot SC163, will be demolished for parking lot expansion. Contract parking will not be disrupted during this process. The next phase will be complete reconstruction of the lot to include soil correction, drainage, resurfacing, new lighting, curbs and gutters, and a sidewalk. This will take about one month and should be completed by the start of school. It will be necessary to temporarily relocate everyone during lot reconstruction. Please park in lot S-102, and remember to display your hangtag. By early August, signs will be posted at the entrance of SC163 regarding the specific date to move to lot S-102.

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**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

**SOUTH DAKOTA STATE UNIVERSITY**  
Senior Agricultural Research Technician, Plant Science. Coordinate and supervise routine laboratory, greenhouse, and field research activities of forage crop research projects.  
Application deadline: August 14, 1998.

**UNIVERSITY OF CALIFORNIA**  
Forest Products Advisor - Urban/Wildland Interface Mitigation. Division of Agriculture and Natural Resources, North Central Region. Research on structural fire mitigation, education programs to assist in adoption of new fire codes, etc.  
Application deadline: August 31, 1998.

**KANSAS STATE UNIVERSITY**  
Extension Assistant. Temporary. Assist in coordination and operation of an on-going project to develop a water quality education program for grazing lands in Kansas.  
Application deadline: August 31, 1998.

**UNIVERSITY OF MINNESOTA -  
BIOINFORMATICS**  
Post-Doc position for candidate with Ph.D. in Computational Sciences. Assist in development of analysis and visualization tools for exploration of plant genome data.

**KANSAS STATE UNIVERSITY**  
Assistant Professor, Food Crops Research and Extension. 60% Extension/40% Research. Develop extension educational programs for commercial vegetable and fruit producers. Conduct applied/adaptive research and provide leadership for implementation of vegetable production systems.  
Application deadline: October 1, 1998.

# Agronomy Gleanings

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August 3, 1998

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## Announcements

Julie will be on vacation the week of August 10-18. If you have announcements for the Gleanings, please send them to Jean Swanson ([swans008@tc.umn.edu](mailto:swans008@tc.umn.edu)) or drop them in the Gleanings box on the front desk as usual. Thank you.

The first order for Agronomy shirts and caps will be placed on August 7. Lynne expects this order to be filled by August 24, and she plans to submit another order at a later date.

Please join us in congratulating four members of our department who have won awards recently: Bob Busch has been named USDA-ARS Midwest Area Scientist of the Year, and also received the ASA Crops Career Award; Vern Cardwell has been named Chair of ASA; Kate Plaisance received a COAFES Distinguished Service Award; and Ron Phillips has been named Chair of CSSA. The Social Committee is hosting an ice cream social to give folks a chance to come by and congratulate them:

Tuesday, August 25  
2:30-3:30 p.m.  
306 Borlaug Hall

The CSREES Directory of Professional Workers in Agriculture can be found online. The address is <http://www.esusda.gov/>. Click on "Directories" to begin your search.

Grad students: Please respond to Jean Swanson ASAP as to whether you want to go on the Iowa tour. Thank you -- Deon Stuthman

## Biotechnology Seminar

Dr. Isao Endo, Director, Biochemical Systems Laboratory, RIKEN, The Institute of Physical and Chemical Research, Saitama, Japan. "A Robotic System for Biotechnology Manufacturing Plants." 3:00 p.m., Aug. 4, 3-180 EE/CS, Mpls. Campus

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North Central Region SARE  
University of Nebraska  
13A Activities Bldg.  
Lincoln, NE 68583-0840  
402-472-7081  
402-472-0280 (fax)  
[sare001@unlvm.unl.edu](mailto:sare001@unlvm.unl.edu)

**Position Announcements**  
**(Posted in notebook in 411 Borlaug Hall)**

**OREGON STATE UNIVERSITY**

Director of Seed Services Program, Dept. of Crop and Soil Science. Administer programs, including Seed Certification Service, Seed Testing, etc. Work closely with seed industry, USDA-ARS staff, OSU faculty and staff, etc. Application deadline: August 20, 1998.

**UNIVERSITY OF MINNESOTA**

Computer Lab Manager, College of Architecture and Landscape Architecture. Assist users of facility, train and supervise staff, manage software and hardware, etc. Application deadline: August 5, 1998.



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SAgdon

# Agronomy Gleanings

Department of Agronomy and Plant Genetics -- University of Minnesota  
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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)  
August 10, 1998

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## Announcements

Condolences to the family of Dr. Yien-si Tsiang, who passed away July 2 after a long battle with cancer. Dr. Tsiang was 84 years old. He is survived by his wife, May-ying, and two grandchildren, Irene T. Chou and Benjamin Tsiang. Funeral services will be held on August 17 at the Taipei First Funeral Home. Dr. Tsiang will be fondly remembered for his many years of service to the field of agriculture, the government of Taiwan, and his family.

**Outstanding Teamwork:** On July 29 at 8:00 a.m., nineteen Crookston-based agronomists/assistants entered a six-acre barley seed production field to remove stray wheat plants. The entire group, including Larry Smith and John Wiersma, worked until no wheat plants could be found, which was at 12:20 p.m. Surely this ranks high among all examples of teamwork and cooperation. Thanks to the Crookston crew for saving the barley seed production field. -- Don Rasmuson.

Grad students: Please respond to Jean Swanson ASAP as to whether you want to go on the Iowa tour. Thank you -- Deon Stuthman

The CSREES Directory of Professional Workers in Agriculture can be found online. The address is <http://www.esusda.gov/>. Click on "Directories" to begin your search. If you have any trouble accessing the information you need, please see Jean Swanson.

The University will be responsible for a booth in the Education Building at the Minnesota State Fair, and University Relations is looking for volunteers to staff it. Additional information and a sign-up form are available in the main office.

Congratulations to Richard Halstead, ARS agricultural research technician on the oat genetics project. Richard was honored at a recent American Oat Workers' Conference in Winnipeg as a recipient of a "Distinguished Service to Oat Improvement Award." A plaque, accepted at the meeting by Roger Caspers on Richard's behalf, is on display on the front desk in the Department office.

Please join us in congratulating five members of our department who have won awards recently: Bob Busch has been named USDA-ARS Midwest Area Scientist of the Year, and also received the ASA Crops Career Award; Vern Cardwell has been named Chair of ASA; Kate Plaisance received a COAFES Distinguished Service Award; the American Oat Workers Conference presented Dick Halstead with a Distinguished Service Oat Improvement Award; and Ron Phillips has been named Chair of CSSA. The Social Committee is hosting an ice cream social to give folks a chance to come by and congratulate them:

Monday, August 24  
2:30-3:30 p.m.  
306 Borlaug Hall

\*NOTE: The date of the social has been changed since this first announcement last week.

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North Central Region SARE  
402-472-7081  
402-472-0280 (fax)  
[sare001@unlvm.unl.edu](mailto:sare001@unlvm.unl.edu)

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**UNIVERSITY OF MINNESOTA**

Dept. of Applied Economics, Principal Secretary. Provide secretary support to dept. head and dept. administrator (60%), main office reception and management of office equipment (30%), miscellaneous (10%).

**UNIVERSITY OF MINNESOTA**

College of Natural Resources, Dept. of Forest Resources, Grand Rapids. Research Associate or Research Fellow, Silviculture/Genetics/Plant Propagation -- improvement of aspen and larch. Application deadline: September 11, 1998.

**UNIVERSITY OF MINNESOTA**

College of Architecture and Landscape Architecture, Project Coordinator. Define, develop, and implement the University's design initiative. This initiative will involve inter-departmental University cooperation as well as community outreach. Application deadline: August 24, 1998.

**UNIVERSITY OF MINNESOTA**

College of Natural Resources. Extension Educator, Agroforestry Development, Central and West Central Minnesota, Central Lakes College, Staples. Improve the economic viability and environmental quality of small farm and forest enterprises by educating landowners and professionals about economics, production, and environmental quality aspects of agroforestry. Application deadline: October 18, 1998.

**KANSAS STATE UNIVERSITY**

Department of Agronomy, Manhattan, KS. Assistant Scientist, Soil Science. Conduct microbiological and chemical analysis of soil and liquid samples from animal waste management studies. Application deadline: September 10, 1998.

**TEXAS AGRICULTURAL EXP. STATION**

Texas A&M University System. Assistant Professor in Agronomy. Full time research in cooperation with a team of molecular biologists studying gramineous crops. Application deadline: September 15, 1998.

**UNIVERSITY OF FLORIDA**

Full Time Graduate Assistantship for M.S. or Ph.D. student who needs a higher income and full fringe benefits and prefers to work full time and pursue a degree part time. May select a research project in any area related to breeding and genetics of the forage legumes and grasses.

**ALABAMA COOP. EXTENSION SYSTEM**

County Extension Agent, Chambers County, LaFayette, AL. Primary duties include educational programs in sustainable agriculture, wildlife and natural resources, home environment, and agriculture youth programs. Application deadline: August 17, 1998.

**UNIVERSITY OF WISCONSIN - EXTENSION**

Home Horticulture Educator, Waukesha County. 75% time. Develop educational programs in horticulture directed at home gardeners, non-commercial horticultural production, community gardens, and youth gardeners. Application deadline: September 2, 1998.

# Agronomy Gleanings

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August 17, 1998

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## Announcements

The faculty meeting scheduled for August 17 has been canceled. The next meeting will be Sept. 21 at 1:00 p.m. in 306 Borlaug Hall.

Traffic on Upper Buford Circle will be two-way from the Soil Science driveway and from the Green Hall driveway while crews complete construction on the water tank. Signs will be posted to direct traffic away from the construction site. In the meantime, please use the Folwell Ave. access as much as possible.

Plan to attend the 12th Annual 1998 University Stores "Open House" on Wednesday, September 9 at the Radisson Hotel Metrodome. Show hours are from 10:00 a.m. to 3:00 p.m., and lunch will be served from 11:30 a.m. to 1:00 p.m. If you have any questions, contact Lynn Hein at 612-624-6543 or [l-hein@maroon.tc.umn.edu](mailto:l-hein@maroon.tc.umn.edu).

**Room for rent:** Enjoy living in a quiet neighborhood/house with your own furnished room. House is located in Lauderdale, just 1 mile from campus. You would have your own bathroom, kitchen privileges, and access to laundry facilities. Call 651-646-1231 or email [marti005@tc.umn.edu](mailto:marti005@tc.umn.edu) or [fedde001@tc.umn.edu](mailto:fedde001@tc.umn.edu).

The University will be responsible for a booth in the Education Building at the Minnesota State Fair, and University Relations is looking for volunteers to staff it. Additional information and a sign-up form are available in the main office.

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Monday, August 24  
2:30-3:30 p.m.  
306 Borlaug Hall

Space is still available for anyone interested in joining the Iowa tour. Please see Jean Swanson as soon as possible. Thank you -- Deon Stuthman

**Position Announcements**  
(Posted in notebook in 411 Borlaug Hall)

**UNIVERSITY OF MINNESOTA**

College of Human Ecology - Student Services.  
Coordinator of Student Services Operations.  
25% student services operations (e.g. scheduling, hiring, training student services support team staff), 25% service coordination (e.g. assisting students with course registration, PR, etc.), 25% data and reporting (end of term/year reports production, etc.), 15% trouble shooting (policy and procedures), 10% publications team (revision, etc.).

Application deadline: August 28, 1998.

**UNIVERSITY OF MINNESOTA**

College of Human Ecology - Student Services  
Advisor and Orientation Coordinator. 30% planning/implementing quarterly orientation/registration, 25% liaison for transfer advising/recruitment, 20% advising (undecided students, changing majors, etc.), 10% coordinating probation system, 10% trouble shooting, 5% publications team.

Application deadline: August 28, 1998.

**UNIVERSITY OF MINNESOTA**

St. Paul Student Center - Marketing Manager.  
Coordinate promotional campaigns, organize quarterly events calendars, supervise student committee members and Graphics Shop workers, budget for Graphics Shop, and PR work.

Application deadline: August 28, 1998.

**KANSAS STATE UNIVERSITY**

Extension Assistant, Dept. of Agronomy. Part time/temporary. Assist in coordination of on-going project to develop a water quality education program for grazing lands in Kansas.

Application deadline: August 31, 1998.

**KANSAS STATE UNIVERSITY**

Graduate Research Assistant, Dept. of Agronomy. Half time. Complete course work and conduct independent research on the fate and the transport of chemicals in the soils beneath swine lagoons/effects on water quality.

**NDSU/U OF MN EXTENSION**

Weed/Crop Production Specialist located in Dept. of Plant Sciences, NDSU. 5-year, non tenure-track position (continuation dependent upon performance/funding). Crop production responsibilities in eastern ND and northwestern MN, emphasis in weed control and production of corn, soybean, canola, etc.

Application deadline: September 21, 1998.

**OREGON STATE UNIV. - EXTENSION**

Extension Horticulturist - Assistant Professor, tenure-track. Leadership for Central Oregon Master Gardener Volunteer Program (problem solving resource for local gardeners), training programs for local nurseries, landscapers, etc.

Application deadline: September 4, 1998.

**MACALESTER COLLEGE**

Restoration Ecologist, Biology Dept. Prairie and sedge meadow restoration at Katharine Ordway Natural History Study Area. Part time, position ends October of 1999.

Application deadline: August 24, 1998.

**UNIVERSITY OF CALIFORNIA - DAVIS**

\*two positions available\*

Postdoctoral positions to conduct research on marker-assisted selection and genetic dissection of two genetically complex traits in tomato.

**UNIVERSITY OF CALIFORNIA COOP. EXT.**

Natural Resources/Livestock Advisor, Division of Agriculture and Natural Resources, Northern Region. Research programs addressing issues such as watershed management, environmental quality, soil and resource conservation, safe and nutritious food for consumers, and sound stewardship of natural resources.

Application deadline: October 16, 1998.

**FARMLAND COOPERATIVE SYSTEM**

Fall Crop Management Intern. Soil sampling, processing/interpretation of yield monitor data.

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
August 25, 1998

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*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

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## Announcements

The Minnesota State Fair runs from Thursday, August 27 through Monday, September 7. The Fair uses lots S108 and S104 from 11:00 p.m. Friday, August 21, through Thursday, September 10, 1998. These lots will be returned to the University on Friday, September 11. To accommodate St. Paul customers during the time of the Fair the following alternatives for public parking are available:

### Parking Lots Available

#### Lot S101

Commonwealth & Cleveland - daily parking for faculty, staff, and students with a University ID for \$2.50 (anytime). After 9:00 a.m. event parking is available for \$5.00

#### Lot S102

Gortner & Buford - carpool parking only for \$1.25 until 2:00 p.m. with a University ID.

#### Lot S103

Gortner & Fitch - daily parking for faculty, staff and students with a University ID for \$3.50 (anytime).

During the Fair parking spaces are limited on campus. Therefore, Parking & Transportation Services encourages staff, faculty, and students to carpool, bus, bike, or use alternative commuting options.

Plan to attend the 12th Annual University Stores "Open House" on Wednesday, September 9 at the Radisson Hotel Metrodome. Hours are from 10:00 a.m. to 3:00 p.m., and lunch will be served from 11:30 a.m. to 1:00 p.m.

Please put any announcements for the Gleanings on the back desk in 411 Borlaug Hall.

## Seminars

August 27

### Plant Biological Sciences

Colloquium, Dr. Nordine Cheikh, Program Director, Monsanto Ag Technology: Use of Biotechnology for Crop Improvement, 2:00 p.m., 306 Borlaug Hall.

September 1

Ph.D. Thesis Defense, Vincent Jean-Marie Robert, Validation of  $\beta$ -Glucan QTLs in Oat, 9:00 a.m., 306 Borlaug Hall.

September 2

Special Seminar, Dr. Pat Okubara, Western Regional Research Center, USDA-ARS, Albany, CA, Approaches to Genetically Engineering Wheat for Resistance to Head Blight, 9:00 a.m., 306 Borlaug Hall.

## Position Announcements (Posted in 411 Borlaug Hall)

UNIVERSITY OF ARKANSAS  
Research Specialist, Department of Agronomy.  
M.S. in agronomy, specializing in weed science.

BIODIAGNOSTICS, INC.  
Manager of ELISA Technologies. M.S. in biochemistry, molecular biology, or a closely related field. Primary responsibilities is to develop and manage a high capacity, produced based ELISA protocol for evaluating the level of expression of the Bt gene for controlling the European Corn Borer in hybrid and inbred corn.

Closing date: August 31, 1998

UNIVERSITY OF CALIFORNIA

Plant Pathology Farm Advisor, Cooperative Extension. Ph.D. or M.S. in plant pathology or pest management. Courses and/or experience in field research, statistical design and field crops is preferred.

COLORADO STATE UNIVERSITY

Assistant Professor/Range Extension Specialist, Department of Rangeland Ecosystem Science. Ph.D. in rangeland ecosystem science or rangeland management. Knowledge of livestock production, rangeland issues and policies and management of pastures.

Closing date: October 31, 1998

UNIVERSITY OF DELAWARE

Assistant Professor in Soil and Water Quality/Nutrient Management. Ph.D. in soil science. Tenure-track, 12-month appointment with emphasis in nutrient management.

Closing date: November 1, 1998

UNIVERSITY OF MINNESOTA

Principal Secretary, College of Human Ecology. Database support for program areas, administrative support, commencement coordinator, scholarship support, budget monitoring and maintenance, and supervision of personnel.

NORTH DAKOTA STATE UNIVERSITY

Extension Sugar Beet Specialist, Department of Soil Science. Tenure-track, 12-month appointment, 100% extension with an applied research component.

Closing date: October 31, 1998

PIONEER HI-BRED INTERNATIONAL, INC.

Senior Research Associate, Crop Protection, Trait and Technology Development. M.S. in molecular biology or B.S. with at two years related lab experience.

Closing date: September 11, 1998

UNIVERSITY OF WISCONSIN-EXTENSION

Agriculture Agent, Cooperative Extension. M.S. in animal science.

Closing date: September 21, 1998

MW  
gAgBio.

# Agronomy Gleanings

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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL [agro@coafes.umn.edu](mailto:agro@coafes.umn.edu)  
September 21, 1998

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## ANNOUNCEMENTS

**Barley Position Candidate.** Dr. Kevin Smith will present "Genetic Mapping of Complex Traits in Plants—Implications for Plant Breeding" on Tuesday, Sept. 22, at 8:30 in 306 Borlaug.

**Special Seminar.** Dr. H. Corby Kistler, University of Florida.. "Molecular Genetics of Host Specificity in Plant Pathogenic Fusarium SPP," Monday, September 28, 11:00 am, 491 Borlaug Hall. Dr. Kistler is a candidate for Fungal Geneticist Position, Cereal Disease Laboratory.

**Plant Molecular Genetics Institute 1998-1999** Discussion Schedule is posted outside Agronomy. Discussions begin Monday, October 12 at noon in 239 Gortner Lab.

**Attention Graduate Students:** The Graduate School's Commencement Ceremony dates for the 1998-1999 academic year are as follows: Monday, December 7, 1998, 7:00 pm and Friday, May 14, 1999, 1:00. The deadlines for submitting the Commencement Attendance Approval Form to 316 Johnston Hall are October 1, 1998 for the Fall Ceremony, and April 1, 1999 for the Spring Ceremony. Forms are available from Lynne in 302 Hayes Hall.

**Seminar Rooms.** Be considerate of others! This is a gentle reminder that after using 306 or 409 Borlaug or 408 Hayes, please clean up after yourself. We ask that tables and chairs are rearranged, lights off, windows closed and all trash removed. If this reminder doesn't help, we will adopt the greenhouse policy: "You Mess, We Clean, You Pay"

**Fall Social!** Please mark your calendars and plan to attend the Fall Social on Wednesday, September 30, from 2:30 - 4:30 p.m. in 306 Borlaug Hall. Everyone welcome. **Note change!!**

**Reception.** The President and Regents of The University of Minnesota and The College of Agricultural, Food, and Environmental Science cordially invite you to a reception honoring Dr. Laddie Elling at 3:00 p.m., Tuesday, October 13, 1998 at the St. Paul Student Center North Star Ballroom. The program and presentation of the University of Minnesota Outstanding Achievement Award to Dr. Elling will be at 4:00 p.m. Please RSVP by October 8 to Karen King at 624-4285 or [karen.m.king-1@umn.edu](mailto:karen.m.king-1@umn.edu)

## POSITION ANNOUNCEMENTS (posted in 411 Borlaug Hall)

**University of California-Riverside**  
Assistant Professor—Tenure-track. Biochemistry Plant Molecular Biologist. Department of Biochemistry. Closing Date: October 30, 1998

**University of Nebraska-Lincoln**  
Assistant Professor--Tenure-track (12 month). Plant Quantitative Genetics/Statistical Genomics, Department of Agronomy. 80% research, 20% teaching. Closing Date: November 15, 1998.

**Michigan State University-East Lansing**  
Assistant/Associate Professor -- Tenure-track (12 month). Plant Breeding and Genetics Department of Crop and Soil Sciences. 75% research, 25% teaching. Closing Date: November 30, 1998.

**University of Nebraska-Lincoln**  
Lecturer, 100% academic-year appointment assigned to teaching, plus two months at 100% FTE summer research supplementation to conduct research towards a Ph.D. program in the Department of Agronomy.

**USDA Agricultural Research Service**

Supervisory Research Agronomist/Supervisory Soil Scientist/Supervisory Agricultural Engineer Closing Date: November 2, 1998.

**The J.C. Robinson Seed Company/Golden Harvest Research.**

Research Station Manager/Corn Breeder. Manage a corn inbred development and hybrid testing program in the 105-117 day RM zones. Experience in corn breeding and/or plant pathology is a plus.

**RESEARCH OPPORTUNITIES**

**NATIONAL RESEARCH COUNCIL.** 1999 Postdoctoral & Senior Research Associateship Program. Approximately 350 new full-time Associateships will be awarded. Applications accepted on a continuous basis. Awards issued quarterly.

**NIGEC RFPs** 1999-2000 funding year is now available on the NIGEC website (<http://nigec.ucdavis.edu/publications/rfp/>). To receive e-mail notification of future NIGEC RFP's you may subscribe to the NIGEC list serve. All mailings via U.S. mail have been DISCONTINUED.



# Agronomy Gleanings

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September 28, 1998

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## ANNOUNCEMENTS

**FALL SOCIAL!** This Wednesday, September 30, from 2:30 – 4:30 p.m. in 306 Borlaug Hall. Come and meet new faculty, staff and students. Hors d'oeuvres, drinks and engaging conversation. \$2.00 at the door. Everyone welcome.

**Plant Biological Sciences Colloquium.** Robert Sterner, Associate Professor will present "Mineral Nutrition at the Plant-Animal Interface in Fresh Waters." Tuesday, September 29, 3:30 p.m., 335 Borlaug Hall.

**Biotechnology Seminar.** Dr. Hans-Peter Kohler, Visiting Professor (University of Iowa), EAWAG, Dubendorf, Switzerland will present "Stereoselective Reactions in the Microbial Degradation of Chiral Phenoxypropanoic acid Herbicides." Thursday, October 1, 3:30 p.m., 239 Gortner Lab.

**Kuehnast Lecture Series, Department of Soil, Water & Climate, Kuehnast Lecture Series.** Dr. Kevin E. Trenberth, Head of the Climate Analysis Section, National Center for Atmospheric Research in Boulder, CO will present "What's Happening with El Nino and La Nina." Thursday, October 15, 3:30 p.m., B45 Classroom Office Building.

**Thesis Defense Seminar.** Paula Marie Olhoft will present "Cloning and Characterization of the 5-Methylcytosine Methyltransferase Gene in Maize (*Zea mays*) Plants and Tissue Cultures." Wednesday, September 30, 1:00 p.m., 408 Hayes Hall.

**Graduate School Grants-In-Aid** research proposals are due October 5, 1998. See Jeanne for details.

**Attention Graduate Students:** The Graduate School's Commencement Ceremony dates for the 1998-1999 academic year are as follows: Monday, December 7, 1998, 7:00 p.m. and Friday, May 14, 1999, 1:00 p.m. The deadlines for submitting the Commencement Attendance Approval Form to 316 Johnston Hall are October 1, 1998 for the Fall Ceremony, and April 1, 1999 for the Spring Ceremony. Forms are available from Lynne in 302 Hayes Hall.

**Greenhouse Users.** The first Monday of every month is a clean up/watering day. This means that you should remove any garbage that has accumulated over the month, and you should sweep your house before you water. Please mark the following days on your calendars: Mondays, October 5<sup>th</sup>, November 2<sup>nd</sup>, December 7<sup>th</sup>, January 4<sup>th</sup>, February 1<sup>st</sup>, March 1<sup>st</sup>, April 5<sup>th</sup>, May 3<sup>rd</sup> and June 7<sup>th</sup>. Charges will be issued if the greenhouse staff has to do the clean up. Thanks for your cooperation.

**Ice Cream Social!** Please mark your calendars and plan to attend the Ice Cream Social on Friday, October 30, from 11:00 am – 1:00 p.m. in front of the St. Paul Student Center. A Campus Kick-Off Days event.

**Valley Seed Service 1988 price list** is available in Agronomy at the front desk.

**Meet your Candidates** for House of Representatives 54A and 54B on Thursday, October 15, 7:00 to be held in the Roseville Library Conference Room, County Road B and Hamline Avenue.

**POSITION ANNOUNCEMENTS**  
(posted in 411 Borlaug Hall)

**New Mexico State University**

Assistant Professor - Tenure-track (12 month).  
Superintendent of the NMSU Agricultural Science  
Center at Artesia. 40% Administrative, 35%  
Research and 25% Extension. Closing Date:  
November 15, 1998.

**University of Wisconsin-Spooner**

Agricultural Development Agent - Tenure-track  
UWEX faculty appointment. Spooner Agriculture  
Research Station. Applications will be reviewed  
beginning October 19, 1998.

**Gustavus Adolphus College-St. Peter, MN**

Physiological Plant Ecologist - Tenure-track (9  
month). Closing Date: Application review begins  
October 9 and continues until position is filled.

**Gustavus Adolphus College-St. Peter, MN**

Invertebrate Biologist - Tenure-track (9 month).  
Closing Date: Application review begins October 23  
and continues until position is filled.

**Kansas State University**

Assistant Professor and Extension specialist -  
Tenure-track (12 month). Soil Conservation and  
Management. 80% Extension and 20% Research.  
Closing Date: November 15, 1998.

**Institute for Agriculture and Trade Policy**

Executive Director. To manage this medium sized  
10 year-old research and education organization.  
Closing Date: December 31, 1998.

**California Cooperative Rice Research  
Foundation, Inc. Plant Breeder Position. Closing  
Date: December 1, 1998.**

# Agronomy Gleanings

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October 12, 1998

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## ANNOUNCEMENTS

**ASA-CSSP Meetings.** Dry run practice session for oral presentations is scheduled for Tuesday, October 13, 8:40-11:55 am, 306 Borlaug Hall and poster display is scheduled for Wednesday, October 14, 1:30-4:00 pm.

**Plant Breeding Seminar.** Dr. Stanley Stevens, Department of Applied Economics, University of Minnesota. "Overview of Current Corn Market Situation." Monday, October 12, 3:30 pm, 306 Borlaug.

**Plant Biological Sciences Colloquium.** Steve Jacobson, Graduate Students Invited Speaker, Department of MCD Biology, UCLA. "DNA Methylation and Epigenetic Gene Regulation in *Arabidopsis*." Tuesday, October 13, 3:30 pm, 335 Borlaug

**Friday Brown Bag Lunches,** Department of Agronomy, Friday, October 16, 12:00 pm, 306 Borlaug. "First Cultural Chat."

**Special Seminar.** Dr. Tom Ruehr, California Polytechnic State University, Soil Science. "Adapting Soft Systems Methods to Agriculture and Natural Resources." Wednesday, October 14, 9:00 - 10:00 am, 306 Borlaug.

**COAFES Health & Safety Training.** Presentation by Dawn Errede, Chemical Hygiene Officer, DEHS. Wednesday, October 14, 1:30 pm, 33 McNeil Hall. (Correction)

**Department of Plant Pathology Seminar Series.** NO Seminar Scheduled (Monday, October 12, 1998).

**Kuehnast Lecture Series,** Department of Soil, Water & Climate, Kuehnast Lecture Series. Dr. Kevin E. Trenberth, Head of the Climate Analysis Section, National Center for Atmospheric Research in Boulder, CO will present "What's Happening with El

Nino and La Nina." Thursday, October 15, 3:30 p.m., B45 Classroom Office Building.

**Sustainable Agriculture Study Group.** "What's Up in Sustainable Agriculture?", 408 Hayes Hall, October 14, 12:30-1:30. This week "Borders, Boundaries, Biotech and Breeding: A conceptual overview of links made between Biotechnology and Colonialism."

**Biotechnology Seminar.** Dr. Campbell Wyndham, Professor and Chair, Department of Biology, Carleton University, Ottawa, Canada. "Bacterial adaptation to pollutants and antibiotics: Parallels in positive and negative selection," Thursday, October 15, 239 Gortner Lab, 3:30.

**Annual Travel Awards 98/99.** Xi Chapter of Sigma Delta Epsilon has established annual travel awards to defray some of the costs that female graduate students incur while traveling to national or other major scientific meetings where they are presenting the results of their research. Application due dates October 30, 1998; February 12, 1999; May 14, 1999.

**Health & Benefits Fair** sponsored by Employee Benefits and Boynton Health Service, will be October 27 on St. Paul Campus and October 28 on Minneapolis Campus.

**Motorist Assistance Program** is available to employees, students and visitors on the Twin Cities campus. The service is available on Monday-Thursday, 7 am-midnight and Friday, 7 am-10 pm.

**MISSING:** A tape measure and a portable room heater from Cyto Corn Room, 30 Crop Research Building. If anyone has seen it or borrowed it, please contact Jayanti Suresh at 5-1208. Thank you.

**POSITION ANNOUNCEMENTS**  
(posted in 411 Borlaug Hall)

**University of California-Riverside**

Cooperative Extension Plant Pathology Specialist.  
Assistant Cooperative Extension (70%) and Assistant  
Research Plant Pathologist (30%) – Career-track (11  
months) Department of Plant Pathology. Closing  
Date: January 1, 1999.

**Kansas State University**

Research Assistant – Full time. Department of  
Agronomy. Closing Date: November 15, 1998.

**Montana State University**

Assistant Professor of Agronomy, Weed Scientist -  
Tenure-track (12 month). Montana Agricultural  
Experiment Station. Research (100%). Closing  
Date: December 1, 1998.

**University of Nebraska-Lincoln**

Research Technologist I – Department of  
Agronomy. Review of resumes will begin October  
16, 1998.

**University of Minnesota**

Assistant Professor Rhetoric - Tenure-track (9  
month). Department of Rhetoric (Writing in  
Science and Technology and Writing Across the  
Curriculum). Closing Date: November 9, 1998.

Assistant Professor Rhetoric - Tenure-track (9  
month). Department of Rhetoric (Rhetorical  
Theory). Closing Date: November 5, 1998.

Research Fellow/Research Associate – 100% (12  
month). Department of Soil, Water and Climate.  
Application reviews begin October 1.

Publication Production Assistant – Temporary Part-  
time position. Land Stewardship Project.

Project Assistant – Temporary Part-time position.,  
Department of Environment and Agriculture.

Principal Secretary. College of Human Ecology-  
Office of Outreach & Extension.

# Agronomy Gleanings

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October 19, 1998

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## ANNOUNCEMENTS

**Plant Breeding Seminar.** ASA-CSSA Meetings – NO SEMINAR.

**Plant Biological Sciences Colloquium.** Klaus J. Puettmann, Department of Forest Resources, University of Minnesota. "More than just a pretty view – forest structure affects understory diversity and regeneration." Tuesday, October 20, 3:30 pm, 335 Borlaug Hall.

**Friday Brown Bag Lunches,** Department of Agronomy, Friday, October 23, 12:00 pm, 306 Borlaug Hall. [www.patents.onlife.edu.com?/.gov?](http://www.patents.onlife.edu.com?/.gov?) The process, rationale and limits of patenting within life sciences at a public institution. Dr. Jeff Carpenter from ORTTA will discuss patenting as it plays out at the U.

**Department of Plant Pathology Seminar Series.** Presentation by Julie Jenkins, "Epidemiology of Fusarium Head Blight." Monday, October 19, 2:30 pm, 365 Borlaug Hall

**Sustainable Agriculture Study Group.** Dr. Sharon Danes, Family Social Science Department, University of Minnesota, "Minnesota Rural Futures." Wednesday, October 21, 12:30-1:30. 408 Hayes Hall.

**COAFES Scholarship Reception** to be held on November 2, at the Earle Brown Center. Alan G. Hunter, Associate Dean, will honor recipients and sponsors of the 1998-99 COAFES Scholarships. Advisors should make reservations by October 15 with Candace Zapzalka (4-4212).

**Career Day '98** is scheduled for October 21, 10:00 am – 3:00 pm in the Northstar Ballroom, SPSC. There will be many organizations with which to begin networking. You don't have to be a senior to start networking. Take time out of your daily routine and fit in a visit—a visit for your future.

**Remember:** Maroon and Gold Fridays are Back!! Wear your Minnesota Maroon and Gold sweatshirts and t-shirts on Friday to show your pride for the University.

## Homecoming Schedule

October 23 7:00 pm Pepfest in St. Paul Gym Field ("Pit").

7:00 pm Royalty Coronation

9:30 pm Bon Fire

October 24 7:00–10:00 am Harvest Bowl Farmer's Share Breakfast & Auction-Terrace Café

7:00-9:30 am Silent Auction

9:00 am Little Red Oil Can Awards

9:30 am Harvest Bowl Live Auction

10:30 am Parade – University Avenue

12:30 pm Pepfest at the Metrodome

2:30 pm MN Gophers vs Michigan State-Metrodome

**Birth Announcements!** Gary and Charlene Muehlbauer are the proud parents of a new baby boy born October 2, 1998. Jackson Lee weighed 7 pounds, 4 ounces and was 21" long. Jack joins siblings Amanda and Kevin at home.

Joshua and Justine Larson are thrilled to be the new parents of their first child, a baby girl born October 8, 1998. Olivia Rose Gaye weighed 9 pounds, 5 ounces and was 22" long. Congratulations to our Agronomy families!

## POSITION ANNOUNCEMENTS

(posted in 411 Borlaug Hall)

### Michigan State University

Assistant or Associate Professor - Tenure-track. This is one of six new positions intended to further enhance the position of Michigan State University as a leader in the plant sciences. Department of Biochemistry. Closing Date: December 8, 1998.

**The University of Tennessee**

Research Assistant/Associate – Full time, Environmental Soil Chemistry, Department of Plant and Soil Sciences. Position available November 1.

**The University of Tennessee**

Research Assistant/Associate – Full time, Soil Genesis and Classification, Department of Plant and Soil Sciences. Position available November 1, 1998.

**Cornell University**

Assistant Professor of Pomology, Tenure track (12 month). Research 60%, Extension 40%, Teaching 0%. New York State Agricultural Experiment Station, Department of Horticultural Sciences. Closing Date: December 1, 1998.

**University of Wisconsin-Extension**

Agriculture Agent (Specializing in Dairy and Livestock), Sheboygan County (Recruitment Extended). Closing Date: November 9, 1998.

**Wageningen Agricultural University**

Professor – 100%, Organic Farming Systems, Plant Sciences Department. Closing Date: November 15, 1998.

**University of Minnesota**

Junior Scientist – 100% North Central Experiment Station. Carries out field experiments (50%, conducts greenhouse experiments (35%), assists in computer data entry and analysis, record keeping and report writing (15%). Closing Date: October 29, 1998.

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of Ag Sta

# Agronomy Gleanings

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October 26, 1998

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## ANNOUNCEMENTS

**Plant Breeding Seminar.** Presentation by Ann Marie Conner, Department of Horticulture, "Genetic diversity among cultivars of some temperate fruit crops. Monday, November 2, 3:30 pm, 306 Borlaug Hall. **Seminar Today Cancelled!!** To be rescheduled at a later date.

**Plant Biological Sciences Colloquium.** Presentation by Arun Goyal, Department of Biology, University of Minnesota-Duluth. "Carbon concentration mechanisms in plants and algae." Tuesday, October 27, 3:30 pm, 335 Borlaug Hall.

**Friday Brown Bag Lunches,** Department of Agronomy, Friday, October 30, 12:00 pm, 306 Borlaug Hall. Another cultural chat. What part of the world will be revealed this Friday? Stay tuned!

**Department of Plant Pathology Seminar Series.** Presentation by Dr. David Ragsdale, Department of Entomology, "Interactions of late-blight fungicides with entamopathogenic fungi." Monday, October 26, 2:30 pm, 365 Borlaug Hall. Reminder: No seminar has been scheduled for next week (Nov. 2).

**Sustainable Agriculture Study Group.** Panel Discussion: "Natural foods and you: Implications of natural foods sale in co-ops, publicly owned natural foods, and conventional store." Wednesday, October 28, 12:30-1:30. 408 Hayes Hall.

**Plant Biological Sciences Colloquium.** Presentation by Dr. Satish Parulekar, Visiting Professor, Illinois Institute of Technology. "Excretion of proteins from recombinant *Escherichia coli*: Some observations." Thursday, October 29, 3:30-4:30, 239 Gortner Lab.

**Request for Proposal.** North Central Integrated Pest Management. There are opportunities to submit a research, joint research/extension and an extension proposal based on this Request for Proposal. Note there are two deadlines. See Jeanne for Guidelines.

Letter of Intent -- December 15, 1998  
Full Proposal -- January 15, 1999

**The Center for Teaching and Learning Services** is offering a series of about 10 sessions to help mid-career faculty adjust to changing methods of teaching. If you are interested in this program, please contact Anne Caton and/or go to the web address: <http://www1.umn.edu/ohr/teachlearn/faculty/midcar.html>

**Greenhouse Users.** This is a reminder that Monday, November 2<sup>nd</sup> is a clean up/watering day. All users must sweep out their greenhouses before watering. If the greenhouse staff cleans your area, it will be at the rate of \$50/hour. You will also have to do your own watering on Wednesday, November 4<sup>th</sup>. If you would like a copy of the Operating Procedures, you can see Dann, Roger or Pam. The Operating Procedures were put together by the Greenhouse Oversight Committee which is composed of faculty from all of the departments involved.

**Coffee Break.** Northrup King Development Committee will be sponsoring Departmental Coffee Breaks again this year. The first is scheduled for Friday, October 30, 9:00-9:45, 306 Borlaug and will be hosted by the Alfalfa and Forage Projects Group. Juice and Bruegger's Bagels will be provided. Everyone Welcome!

**Good News!** Professor Lee Hardman is now a Grandfather! Wendy and Willem Dykstra are the proud parents of a new baby boy born Friday, October 23, 5:00 am. Drew David weighed 8 pounds, 10 ounces.

## POSITION ANNOUNCEMENTS (posted in 411 Borlaug Hall)

### Michigan State University

Assistant or Associate Professor - Tenure-track. Plant Biochemistry, Biochemistry Department. Engineering of plant metabolism with the objective of developing new plants or plant products. Closing Date: December 8, 1998.

### Yale University

Assistant or Associate Professor of Environmental Social Science (with term), School of Forestry and Environmental Studies. Closing Date: December 1, 1998.

**Colorado State University**

Research Associate – Turfgrass Science. Temporary, initially for 1 year, non-tenure track appointment. Department of Horticulture and Landscape Architecture. Closing Date: November 23, 1998.

**Colorado State University**

Research Associate – Potatoe Breeding and Selection Program.. Twelve-month, non-tenure track appointment. San Luis Valley Research Center, Department of Horticulture and Landscape Architecture. Closing Date: December 15, 1998.

**Pioneer Hi-Bred International, Inc.**

Research Coordinator, Product Development-Late Maize Areas Southern USA.

**Pioneer Hi-Bred International, Inc.**

Research Coordinator, Product Development-Late Maize Areas: Mexico, South Africa, Asia.

**Pioneer Hi-Bred International, Inc.**

Research Manager – Research and Product Development., Location: Puerto Vallarta, Mexico.

**University of Minnesota Extension Service**

Acting Extension Educator – 100%, 10/98 – 9/15/2000. Location: Sherburne County, Elk River & Cluster #20.



M/W  
g Ag88a

# Agronomy Gleanings

Department of Agronomy and Plant Genetics, University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
November 2, 1998

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The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.

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## ANNOUNCEMENTS

The teal green Caravan, 2194, is no longer available for checkout. It is being turned in for the auction. We will only have 2273, the brown Caravan, for checkout this winter and maybe the blue pickup. If these vehicles are not available, call the St. Paul Fleet Services Office and they will help you rent the type of vehicle you need. Their phone no. is 5-5730. Any questions, call Mike McClellan at 4-5395.

Charging for unlabeled hazardous waste—The St. Paul schedule for disposal of unidentified chemicals for no fee is November 1998. Please check all labs, storage areas, etc. for any chemicals to be disposed during the “grace” period. Thanks, Burle.

COAFES Health and Safety Training for 1998-99. Office Ergonomics, Neil Carlson, Industrial Hygienist, DEHS. The session will cover setting up office workstations using ergonomic principles, resources available to University departments, including free workstation evaluations, assistance on ergonomic purchases, design assistance, ergonomic showroom, and web site, November 11, 10:00 - 11:00 a.m, B25 Classroom Office Bldg.

Mailbox rental now available to faculty, staff, or students at Union Station. Ideal for visiting and retired professors and foreign exchange students. Accessible during normal building hours of the St. Paul Student Center. You can receive both U.S. and campus mail. All incoming mail is sorted and available for pickup by noon the day it is received. There is no mail delivery on Saturdays. Rental rates are

3 ½ x 5" box—\$5/month or \$45/year

5 ½ x 6" box—\$8/month or \$72/year

11 x 6" box—\$15/month or \$135/year

Summer rental is free with a year-long contract.

The 18<sup>th</sup> Annual Crop Pest Management Short Course will be held November 23-24, Earle Brown Center, Room 135. This is a fee-based program designed for agricultural professionals, such as private crop consultants, agronomists, agrichemical representatives, soil conservationists, and extension educators. This two-day program provides in-depth, high quality coverage of contemporary issues in crop pest management and crop production. On Nov. 23 the program will have a general session in the morning featuring four speakers discussing topics related to Roundup herbicide performance and Roundup Ready soybean development. In the afternoon of Nov. 23, three concurrent sessions will address several topics under the following headings: 1) Addressing Manure Issues Head On, 2) Remote Sensing and its Application to Agriculture, and 3) Adjusting Risk in Pest Management. On November 24, the entire day will be committed to concurrent sessions in the following areas:

1. Manure management
2. White mold in soybean
3. Insect management and diseases
4. Pest management in dry bean, alfalfa, and small grains
5. Crop production
6. Risk assessment in today's farm economy

Undergraduate and graduate students may find attending this program enlightening as to what happens to research based information that is transferred to agriculture professionals. Students who wish to attend this program will be allowed a price break from the normal \$110 fee. Currently enrolled University of Minnesota students interested in attending the program can attend for a fee of \$50 (includes two yummy lunches). Those who wish to attend can contact Kevin Cavanaugh, IPM and Ag Professional Program Coordinator at 625-2778; 203A Hayes Hall. Brochures will be available at department offices. If you plan to attend, you must indicate “special student fee \$50” on the registration form to take advantage of the reduced fee. You may register in advance or at the door for the special rate.

“Population, Consumption, and Sustainability: Infinite Growth in a Finite World?” conference, November 20-21, Science Museum of Minnesota, St. Paul. Register by November 13. To register, call 651-221-9444 or 800-221-9444.

The Department of Afro-American and African Studies invites you to its encore series, Francophone Studies on Africa and the Caribbean, First Thursdays, "Challenges in Establishing Effective Communication in Extension Education Programs: Cases from Senegal and Zaire," John R. Vreyens, 3:30-5:00 pm, 815 Social Sciences Bldg.

### SEMINARS

November 2 Plant Breeding, Ann Marie Conner, Department of Horticulture, "Genetic diversity among cultivars of some temperate fruit crops," 3:30 pm, 306 Borlaug Hall.

Plant Pathology Seminar Series.  
No seminar scheduled.

November 3 Plant Biological Sciences Colloquium, Dr. Shirley Tucker, Adjunct Professor, University of CA-Santa Barbara and Prof. Emeriti, LA State Univ., "Development, evolution, and convergence in flowers of tropical legumes," 3:30 pm, 335 Borlaug Hall.

November 4 Sustainable Agriculture Study Group: 'What's Up in Sustainable Agriculture?' (WUSA), "Exploration of Possible Collaboration with Cuban Sustainable Agriculture Organizations," Carolyn Lane, Dept. of Agronomy and Plant Genetics, 12:30 - 1:30 pm, 408 Hayes Hall.

November 5 Biotechnology, Dr. Lynda Ellis, Assoc. Prof., Lab. Medicine and Pathology, and Doyle Kalumbi, Ph.D. Candidate, Dept. Applied Economics, Univ. of Minnesota, "The financial viability of the biological database infrastructure or 'Will the house of cards collapse?'" 3:30 pm, BSBE 2-101, Mpls. campus.

November 6 Brown Bag Lunch Series, The utility of applied economic thought to agronomic research. Dr. Steven Taff of Applied Economics will bring a little economic savvy to our discussion, 12:00 noon, 306 Borlaug Hall.

### POSITION ANNOUNCEMENTS (Posted in notebook in 411 Borlaug Hall)

IOWA STATE UNIVERSITY  
Program Specialist II, BS degree in Crop Production/Protection or related discipline, with one or more years professional experience beyond BS; have Commercial Pesticide Applicator Certification.  
Closing date: November 20, 1998

UNIVERSITY OF WISCONSIN-Extension  
Agriculture Agent, Outagamie County, specializing in Crops and Horticulture, Bachelor's degree required, Master's preferred with at least one degree in a field such as agriculture, agronomy, horticulture, or agriculture/adult education.  
Closing date: November 23, 1998

UNIVERSITY OF WISCONSIN-Extension  
Crops and Soils Agent, Columbia County. Master's degree required by start date with academic preparation in one or more appropriate fields of agriculture and/or agriculture education.  
Closing date: November 23, 1998

OKLAHOMA STATE UNIVERSITY  
Assistant/Associate Professor of wheat genomics, Department of Plant and Soil Sciences. Minimum qualifications include a Ph.D. in plant genetics, or closely related area.  
Closing date: November 16, 1998.

AGRACETUS CAMPUS OF MONSANTO LIFE SCIENCES COMPANY  
Molecular Genetics Researcher in protein production group, Middleton, WI. A.A. degree in biology or chemistry field.  
Closing date: October 30, 1998

AGRACETUS CAMPUS OF MONSANTO LIFE SCIENCES COMPANY  
Molecular Genetics Scientist in protein production group. Ph.D. in molecular genetics, cell biology, or a related area, and relevant post-doctoral experience in plant physiology, genetics, reproduction, or breeding.  
Closing date: not given

THE UNIVERSITY OF GEORGIA  
Assistant/Associate Professor, Weed Science, Department of Crop and Soil Sciences, Tifton. Ph.D. in Agronomy, Crop Science, Horticulture or allied field with emphasis on weed management in crops.  
Closing date: January 31, 1999

THE UNIVERSITY OF GEORGIA  
Assistant/Associate Professor, Cotton Breeding and Genetics, Tifton. Ph.D. in plant breeding, genetics or a related agricultural science.  
Closing date: January 15, 1999

THE OHIO STATE UNIVERSITY  
Plant Molecular Geneticist, Department of Horticulture and Crop Science, Wooster. Ph.D. in Plant Molecular Biology/Genetics and Post-doctoral experience.  
Closing date: December 28, 1998

# Agronomy Gleanings

Department of Agronomy and Plant Genetics, University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

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November 9, 1998

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The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.

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## ANNOUNCEMENTS

Please submit your Gleanings announcements to Jean Swanson, 411 Borlaug Hall, or E-mail <[swans008@tc.umn.edu](mailto:swans008@tc.umn.edu)> before 10:00 am Mondays. We encourage you to have your copy of the Gleanings E-mailed to you.

Funding for Travel to Gordon Research Conference on Temperature Stress in Plants. The Minnesota Corn Growers Association has provided \$1,000 to the 1999 Gordon Conference on Temperature Stress in Plants to help defray some of the cost for a graduate student(s) working on temperature stress research wishing to attend the Conference. The support is earmarked for students from the University of Minnesota. To date, no requests have been received for a travel award. Faculty, please bring this Conference support opportunity to the attention of any students in the department working on some aspect of temperature stress in plants. You can get more information about the Conference at <http://hort.ifas.ufl.edu/tempstress> (contact person is Charles Guy). The amount of support will be dependent on the number of students that apply for the Conference.

COAFES Health and Safety Training for 1998-99. Office Ergonomics, Neil Carlson, Industrial Hygienist, DEHS. The session will cover setting up office workstations using ergonomic principles, resources available to University departments, including free workstation evaluations, assistance on ergonomic purchases, design assistance, ergonomic showroom, and web site, November 11, 10:00 - 11:00 a.m, B25 Classroom Office Bldg.

Note to Graduate Students. The Fall Quarter '98 Grapevine has been posted on the Graduate Assistant Employment homepage at [www.umn.edu/ohr/gao](http://www.umn.edu/ohr/gao). The 1998-99 Graduate Assistant Handbook is currently under a major content and format revision. As soon as revisions are made it will also be posted on the web.

Sloppy Joe Lunch and Turkey Raffle. The annual fund raising lunch of the Agronomy and Plant Genetics Graduate Club will be held Thursday, November 19, from 11:45 to 1:00 pm in 306 Borlaug Hall. Enjoy hearty sloppy joes made with grass-fed beef from the Whole Farm Co-op and delicious desserts created by bean and rice fed graduate students. Vegetarian sandwiches will be available. \$2.50 at the door. Raffle tickets are only \$1 and are available from your local Agronomy and Plant Genetics graduate students.

Graduate Seminar Course: Environmental Rhetoric, Language, Culture, and Nature. Rhet 8525, 4 credits, Thursdays, 3:35-6:05, Winter quarter 1999, 125 Coffey Hall, Prof. Dan Philippon

CONSUMER'S RIGHT TO KNOW, Genetically Engineered Organisms in Our Food!, a free public forum with Dr. Michal McCall, professor of sociology at Macalester College; Dr. Dave Somers, professor in the Department of Agronomy and Plant Genetics at the University of Minnesota; Dr. Philip Regal, professor in the Department of Ecology, Evolution, and Behavior at the University of Minnesota, Thursday, November 19, 7:00 pm, Weyerhaeuser Chapel, Macalester College.

## SEMINARS

November 9 Plant Breeding, John McLaughlin, Dept. of Agronomy and Plant Genetics, "Substitute Library Creation With Recombinant Inbred Lines," 3:30 pm, 306 Borlaug Hall (rescheduled seminar).

Plant Molecular Genetics, "The Future of PMGI," open discussion, 12:00 noon, 239 Gortner Lab.

Biotechnology, Dr. John Thorson, Asst. Member, Memorial Sloan-Kettering Cancer Institute; Asst. Prof., Cornell Graduate School of Medical Sciences, "Biosynthetics Opportunities: Understanding and Exploiting Enzyme Function," 3:30 pm, Eustis Amphitheater D230 Mayo, Mpls. campus.

November 10 Plant Biological Sciences Colloquium, Dr. Tom Nash, Arizona State Univ-Tempe, "Towards Understanding Differential Sensitivity to SO<sub>2</sub> Among Lichens: Field Investigations to Biochemical Mechanisms," 3:30 pm, 335 Borlaug Hall.

November 11 Sustainable Agriculture Study Group: 'What's Up in Sustainable Agriculture?' (WUSA) Erin Lees, graduate student, School of Public Health, Student Internship Presentation, "Surface Water and Irrigation: A Threat to Public Health?," 12:30-1:30 pm, 408 Hayes Hall.

November 13 Brown Bag Lunch Series, Cultural Chat: "Africa and the Middle East," 11:30 am, 306 Borlaug Hall. [Note time change]

Biosystems and Agricultural Engineering. Dr. Ron Phillips, Dept. of Agronomy and Plant Genetics, "Biotechnology in Agriculture-Plants," 1:30 pm, 106 BioAgEng.

**POSITION ANNOUNCEMENTS**  
(Posted in notebook in 411 Borlaug Hall)

UNIVERSITY OF MINNESOTA  
Assistant Professor, Commodity and Structural Arthropod Pest Management, Department of Entomology. Ph.D. or equivalent doctorate in entomology or related field by date of appointment.  
Closing date: February 1, 1999

VIRGINIA TECH  
Assistant Professor in Applied Plant Biotechnology, Dept. of Plant Pathology, Physiology, and Weed Science, Blacksburg, VA. Ph.D. in a plant physiology, biochemistry, molecular biology or other related disciplines with postdoctoral experience in plant molecular biology and/or biotechnology.  
Closing date: January 15, 1999

PIONEER HI-BRED INTERNATIONAL, INC.  
Research Manager, Product Development--Nurseries and Research Seed Production, Johnston, IA. Ph.D. or equivalent in Plant Science discipline with strong background in plant physiology and the application of biotechnology to crop improvement.  
Closing date: none given

UNIVERSITY OF MINNESOTA  
Extension Educator, Crop Systems, Kittson County, Hallock, MN. Bachelor's degree required, master's preferred, with at least one degree in agriculture, education, technology, or business, with an emphasis on agronomy and/or livestock desired.  
Closing date: November 23, 1998

KANSAS STATE UNIVERSITY  
Research Assistant, Soil Science, Manhattan, KS. A B.S. or M.S. (preferred) in soil science, ecology, agronomy or closely related field is preferred.  
Closing date: December 21, 1998.

USDA-ARS SOILS LAB  
Research Agronomist/Plant Physiologist in Morris, MN. Permanent position open. Ph.D. or post-doc experience. The official description can be found at <http://www.mrsars.usda.gov>.

PIONEER HI-BRED INT'L, INC.  
Maize Transformation-Senior Research Associate, Crop Protection Dept. at Johnston, IA. M.S. in Plant Biology or closely related fields with 2-4 years additional experience in plant tissue and transformation or a B.S. with 6 or more years experience is desired.  
Closing date: November 15, 1998

ENCORE TECHNOLOGIES, a manufacturer of biological control products, is seeking a Production Assistant to work in their Minnetonka research/production facility. This is a full time production support position. Applicants must have a B.S. or B.A. degree in one of the biological sciences, or some course work in biological sciences plus significant laboratory experience. Applicant should also have experience in microbiological techniques and general laboratory practices.

M1W  
3-19-98

# Agronomy Gleanings

Department of Agronomy and Plant Genetics, University of Minnesota  
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PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
November 16, 1998

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## ANNOUNCEMENTS

Sloppy Joe Lunch and Turkey Raffle. The annual fund raising lunch of the Agronomy and Plant Genetics Graduate Club will be held Thursday, November 19, from 11:45 to 1:00 p.m. in 306 Borlaug Hall. Enjoy sloppy joes, chips, veggies, and dessert. Vegetarian sandwiches will be available. \$2.50 at the door. Raffle tickets are \$1 and are available from Agronomy and Plant Genetics graduate students -- win a turkey or other fabulous prizes!

Holiday Book Drive--The U's Children, Youth and Family Consortium and Child Psychology Student Organization are sponsoring the 8th annual holiday book drive, "Food for Thought," Nov. 9-24. "Food for Thought" collects new or like-new books for toddlers through teens. Books will be distributed to homeless shelters, day care centers, group homes and other nonprofit health, education and social service organizations across the metropolitan area. People interested in donating books can drop them off at sites across the Twin Cities, including the Red Balloon bookstore in St. Paul, Wild Rumpus bookstore in Minneapolis, the Southdale and Brookdale libraries, the U Child Care Center and Capitol Hill School in St. Paul. For more information, contact Wendi Schirvar at the U's Children, Youth and Family Consortium, schirvar@tc.umn.edu or (612) 625-9296.

Minnesota Soybean Research and Promotion Council invites interested individuals to apply for research grants. The deadline is Dec. 3, 1998. See Jeanne for instructions and forms.

Agricultural Sciences course--Wildlife in Agricultural Lands, FW 3060, 3 cr., Prof. Lou Best (Iowa State Univ.), 10:10-11:00 MWF, Room 495, Hodson Hall. Local contacts: Prof. Ira Adelman and TA Lori Pommerenke.

## U of M Southern Experiment Station, Waseca-- Upcoming Events in 1999:

January 19 Winter Crops Day (Kasson & Lewiston)  
January 21 Winter Crops Day (North Mankato)  
June 22 Crops and Soils Field Day  
August 9-11 Ag Drainage Field Day  
\*Unless noted otherwise, event location is Southern Experiment Station, Waseca.

## University Holidays, 1998-99

November 26-27--*Thanksgiving* holiday.  
Classes excused and University offices closed.  
December 24-25--*Christmas* holiday.  
University offices closed.  
January 1--*New Year's Day*, holiday observed.  
University offices closed.  
January 18--*Martin Luther King's Birthday* observed.  
Classes excused and University offices closed.  
March 26--*Floating holiday*. University offices closed.  
May 31--*Memorial Day*, holiday.  
Classes excused and University offices closed.  
July 5--*Independence Day* holiday observed.  
Classes excused and University offices closed.

## SEMINARS

November 16 Plant Breeding, Russell Rasmusson, Dept. of Agronomy and Plant Genetics Graduate Student, "The genetic basis of plant adaptation," 3:30 p.m., 306 Borlaug Hall.

Special Biotechnology, Dr. Anthony Weiss, Senior Lecturer, Dept. of Biochemistry, The University of Sydney, Australia, "Elastin assembly: synthetic genes, tropoelastin domains, and interactions," 10:45 a.m., 239 Gortner Lab.

November 17 Plant Biological Sciences Colloquium, Lewis Lukens, Plant Biology Graduate Student, Thesis Proposal, "Evolution of teosinte branched 1 among the grasses," 3:30 p.m., 335 Borlaug Hall.

November 18 Sustainable Agriculture Study Group: 'What's Up in Sustainable Agriculture?' (WUSA), Caroline Scully, Student Internship Presentation: "Using oxen for market gardening at Howell Living History Farm," 12:30 - 1:30 p.m., 408 Hayes Hall.

November 19 Forest Resources, Laszlo Pinter, Graduate Student, Int'l. Institute of Sustainable Development, Winnipeg, Canada, "Assessing the past, exploring the future: Integrated reporting in the context of sustainable development," 11:30 a.m., 326 Green Hall.

Water Resources, Ed Clapp, "Plant growth promoting activity of humic substances," 3:15 p.m., 375 Borlaug Hall.

November 20 Biosystems and Agricultural Engineering, Julie Tranquilla, Coordinator, Alternative Swine Project, Univ. of Minnesota, "Alternative Swine Production Program Update," 1:30 p.m., 106 BioAgEng.

Brown Bag Lunch Series, Cultural Chat: Asia, 12:00 noon, 306 Borlaug Hall.

Special Seminar, Weiting Ni, Dept. of Agronomy and Plant Genetics, "Lignin genetic engineering: Search for genes controlling cross-linking of lignin and polysaccharides in maize cell walls," 2:00 p.m., 306 Borlaug Hall.

#### POSITION ANNOUNCEMENTS

(Posted in notebook in 411 Borlaug Hall)

#### UNIVERSITY OF CALIFORNIA, RIVERSIDE

Postgraduate or Postdoctoral Researcher, Dept. of Botany and Plant Sciences. M.S. or Ph.D. Knowledge and accomplishments in at least two of the following areas: plant population dynamics and genetics, seed and perennial weed biology; soil science; quantitative skills.

Closing date: January 15, 1999

#### PIONEER HI-BRED INTERNATIONAL, INC.

Research Associate, Grand Forks, ND, B.A./B.S. in agriculture or related field. Additional experience in field crop research would be valuable.

#### PIONEER HI-BRED INTERNATIONAL, INC.

Part Time Regular -- Research Assistant, Grand Forks, ND, B.S. in agricultural related science or A.A.S. in applied agricultural discipline with 2-5 years experience. Able to acquire and maintain a CDL and Commercial Pesticide License in ND/MN.

#### MICHIGAN STATE UNIVERSITY

Assistant Professor in Phytoremediation, Department of Crop and Soil Sciences, East Lansing. Ph.D. degree in Plant Physiology or related area.

Closing date: January 15, 1999

SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE  
Plant Breeder/Biometrician/Molecular Geneticist, Assistant Professor (tenure track 9-month appt.). Ph.D. with emphasis in plant breeding, biometrics, and a strong background in molecular genetics.

Closing date: January 15, 1999

#### UNIVERSITY OF ILLINOIS

Extension Weed Scientist. Position description posted on the WSSA Web Site.

#### UNIVERSITY OF ILLINOIS

Postdoctoral Research Associate--Soybean transformation at Urbana-Champaign. Ph.D. and experience in legume tissue culture, plant regeneration, transformation and molecular biology.

Closing date: November 15, 1998 or until filled.

#### UNIVERSITY OF MARYLAND

Assistant/Associate Professor, Field Crops Agronomist in the Dept. of Natural Resource Sciences, College Park. Ph.D. in agronomy, crop science, soil science or related discipline.

Closing date: February 15, 1999.

#### UNIVERSITY OF MARYLAND AT COLLEGE PARK

Assistant or Associate Professor, Applied Statistics, Dept. of Natural Resource Sciences & Landscape Architecture. Minimum qualifications include Ph.D. in an Agricultural or Biological Science discipline with evidence of strong quantitative skills and training in statistical theory or a Ph.D. in Statistics, Biometrics with an appropriate biological or agricultural science background.

Closing date: February 15, 1999

AMW  
GAG New

# Agronomy Gleanings

Department of Agronomy and Plant Genetics, University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

November 23, 1998

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## ANNOUNCEMENTS

Thanksgiving holiday, Nov. 26-27. Classes excused and University offices closed.

COAFES Scholarships--Several undergraduate students in our department received departmental scholarships at the annual COAFES Scholarship Reception on November 2. The total amount of all scholarships awarded was \$13,500. This awards ceremony replaces the reception that we usually hold in the spring.

Barb Wingen received the Howard C. Abraham Outstanding Senior Scholarship. Barb is from Jamesville, MN. Howard C. Abraham was a graduate of our department and an employee of the Minnesota Crop Improvement Association from 1952 until his retirement in 1987.

Adam Johnson received the Edgar E. Hartwig Outstanding Junior Scholarship. Adam is from Foley, MN. Edgar Hartwig grew up on a family farm near Wheaton, Minnesota, and earned his B.S. degree from the U of M in 1937 and went on to become an internationally known soybean breeder with the USDA-ARS in Stoneville, Mississippi.

B.J. Patzoldt and John Swanson received Minnesota Corn Growers Scholarships. These scholarships are provided annually by the Minnesota Corn Growers Association and the Minnesota Corn Research and Promotion Council. The intent of these awards is to reward and attract students interested in careers related to corn production and utilization.

Sean Collins received the MClA-Ward H. Marshall Scholarship. He is from Murdock, MN. This scholarship is provided annually by MClA in memory of Ward H. Marshall who was an employee and Executive Vice-President of Minnesota Crop Improvement Association from 1944 until 1975 when he died.

Helen Lehto and Joe Morrissey received Oliver E. Strand Scholarships. Dr. Oliver E. Strand was an outstanding undergraduate teacher and weed scientist in the department.

Greenhouse Users--The following are clean-up/watering days for greenhouse users: December 7, January 4, February 1, March 1, April 5 and May 3. Please mark these days on your calendars. People seem to be forgetting even with reminders. Thanks to your help, the greenhouses are looking much better these days.

Regents approval of the following departments--You are cordially invited to attend a reception to celebrate Regents approval of the following departments: Biochemistry, Molecular Biology, and Biophysics; Genetics, Cell Biology and Development; Neuroscience; and Plant Biology, Tuesday, November 24, 4:00-6:00 p.m., Weisman Art Museum. Hosted by the Deans of CBS, COAFES, and the Medical School. Please call 624-4770 with questions.

## SEMINARS

November 23 Plant Breeding, Paulo Canci, Dept. of Agronomy and Plant Genetics Graduate Student, "Are QTL's real or just statistical entities?," 3:30 p.m., 306 Borlaug Hall.

Plant Molecular Genetics, Carolyn Silflow, Professor, Genetics and Cell Biology, "Progress on the chlamydomonas genomics," 12:00 noon, 239 Gortner Lab.

Plant Pathology, Charles Barnes, "Genomic clustering of plant disease resistance genes," 2:30 p.m., 365 Borlaug Hall.

November 24 Plant Biological Sciences Colloquium, James Hopper, Dept. of Biochemistry, PA State Univ. Medical School, "Deciphering the gal3P-gal80P-gal4P transcription switch of the yeast *Saccharomyces cerevisiae*," 3:00 p.m. (note time change), 335 Borlaug Hall.

**POSITION ANNOUNCEMENTS**  
(Posted in notebook in 411 Borlaug Hall)

**PIONEER HI-BRED INTL., INC.**

Research Associate, Research and Product Development Dept., Johnston, IA. B.S. or M.S. in agronomy, crop production, physiology or other agricultural or biological science.

**PURDUE UNIVERSITY**

Assistant Professor of Agronomy, Molecular Quantitative Genetics (tenure-track). Ph.D. in genetics, statistics, computational biology, or in related field.

Closing date: January 15, 1999

**PURDUE UNIVERSITY**

Assistant Professor of Agronomy, Plant Molecular Geneticist (tenure-track). Ph.D. in plant genetics or plant molecular biology.

Closing date: January 31, 1999

**UNIVERSITY OF ARIZONA**

Assistant/Associate Specialist, Ornamental Horticulture, Dept. of Plant Sciences, Tucson. Ph.D. in horticulture or closely related field with an emphasis on ornamental plants.

Closing date: February 1, 1999

**UNIVERSITY OF ARIZONA**

Assistant/Associate Professor, Plant Biologist, Dept. of Plant Sciences, Tucson. Ph.D. degree and postdoctoral experience in an appropriate discipline.

Closing date: February 1, 1999

**KANSAS STATE UNIVERSITY**

Assistant/Associate Professor, Research/Extension Faculty appointment at John C. Pair Research/Extension Center/Wichita, Kansas. Ph.D. in horticulture with an emphasis on woody plant materials.

Closing date: March 1, 1999

**KANSAS STATE UNIVERSITY**

Assistant Professor, Horticultural Crops and Forestry at Food Crops Research and Extension, Olathe. Ph.D. in vegetable crop science with strong working knowledge of fruit crop production systems.

Closing date: March 1, 1999

**PIONEER HI-BRED INTL., INC.**

Postdoctoral Research Scientist at Des Moines, IA. Ph.D. in plant biology, agronomy, biochemistry, molecular biology, or related discipline with relevant experience in gene expression analysis and plant genetics.

**MICHIGAN STATE UNIVERSITY**

John A. Hannah Professorship in Plant Genomics (endowed professorship). Research area: Biochemistry, Botany and Plant Pathology, Crop and Soil Science, Forestry or Horticulture.

Closing date: December 18, 1998

**MICHIGAN STATE UNIVERSITY**

Associate/Assistant Professorship in metabolic engineering. Ph.D. and postdoctoral research experience.

Closing date: December 8, 1998

**MICHIGAN STATE UNIVERSITY**

Assistant Professorship in phytoremediation, Dept. of Crops and Soil Sciences. Ph.D. in plant physiology or related area.

Closing date: January 15, 1999

**UNIVERSITY OF ILLINOIS**

Graduate Research Assistantship in plant breeding and genetics of small grains (one-half time), Dept. of Crop Sciences, Urbana-Champaign. B.S. degree in crop science, plant science, biology, genetics or a closely related field is required. Both M.S. and Ph.D. students will be considered.

Closing date: Until suitable applicant identified

**UNIVERSITY OF ILLINOIS**

Postdoctoral Research Associate on identification of molecular markers associated with resistance to wheat scab, Dept. of Crop Sciences, Urbana-Champaign. Ph.D. in plant molecular genetics, plant pathology, plant breeding or a related discipline.

Closing date: December 14, 1998



MW  
8/19/86

# Agronomy Gleanings

Department of Agronomy and Plant Genetics  
University of Minnesota

411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108

PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu

December 1, 1998

*The mission of the Department of Agronomy and Plant Genetics is to discover and share information and genetic material that increases the efficiency, reliability, and profitability of crop production and utilization within Minnesota and around the world. We promote environmentally sound practices that preserve the natural resources upon which agriculture depends.*

## Announcements

The grad club would like to thank everyone who participated in this year's sloppy joe lunch and turkey raffle fundraiser. We raised almost \$200 for the club and received many compliments on the good food.

A reception for Dr. Monica Rebuffo from INIA in Uruguay will be held at 2:00 p.m. on **Wednesday, December 2** in 306 Borlaug Hall. Let's give her a warm Minnesota welcome!

**Holiday Party** - Mark your calendars for the Agronomy and Plant Genetics Holiday Party to be held on Thursday, December 17 from 12:00 noon to 2:00 p.m. in 306 Borlaug Hall. The party will be potluck (bring your favorite dish) and also will include Food Drive Donations.

Dave Somers

**Employees who claim exemption from income tax withholdings on Form W-4 must complete a new Form W-4 for 1999 and submit it to Payroll Services so it is received by Tuesday, February 16, 1999 at 4:00 p.m.** Residents of Wisconsin, North Dakota, and Michigan who work in Minnesota but want to be exempted from Minnesota income tax withholding, need to provide Payroll Services with a new MWR (Reciprocity) form by Tuesday, March 2, 1999 at 4:00 p.m.

News from Jose Dominguez: Our new son, Cesar Alejandro, was born on August 25. He weighed 5.5 lbs. and was 48 cm long. He was born a little premature, but soon got well. Now he is doing very well. His mom, brothers Pablo and Jose Jr. and myself, are very proud of him.

It is time for "Toys for Tots" again! Our department always does a very good job in collecting toys to be donated during the Xmas season. Let's do it again this year! We will once more join the St. Paul Student Center and the U.S. Marines in this event. A box to collect toys will be placed in the Agronomy main office (411 BH). Please bring unwrapped toys. You can bring them from December 1st until the 18th. Thank you very much for your help!

Cris Handel

Cattle Feeders Day will be held on Tuesday, December 8 at the West Central Experiment Station in Morris. Registration begins at 8:30 a.m. Registration fee is \$20/person and covers refreshments/lunch.

## Weeds Discussion Group

Nick Jordan, Evolutionary Stability in Resistant **Management, Monday, December 7, 12:00 noon**, 306 Borlaug Hall. Everyone is welcome to attend.

## Seminars

December 1 **Plant Biological Sciences Colloquium**, Anath Das, Anatomy of the *Agrobacterium* T-DNA Transfer Apparatus, 3:30 p.m., 335 Borlaug Hall.

**Entomology**, Roger Moon, Foreign Exploration for Fly Parasites in Russia and Kazakhstan, 3:00 p.m., 490 Hodson Hall.

December 2 **MacArthur Program Brown Bag Lunch Series**, Julie Grossman, Sustainable Coffee Production in Chiapas, Mexico: More than Just a Load of Beans, 12:00 noon, 246 Social Sciences, West Bank.

## Seminars (continued)

December 2    Sustainable Agriculture Study Group: 'What's Up in Sustainable Agriculture?'  
Jennifer Callahan,  
"Consumption and Civic Virtue:  
Some Thoughts on the Moral  
Status of Sustainability, 12:30  
p.m., 408 Hayes Hall.

December 3    Natural Organic Matter in Water and Soils, Tom Malterer,  
The Nature and Properties of  
Minnesota Peatlands in Relation  
to Humic Substance  
Contributions to the  
Environment, 3:15 p.m., 375  
Borlaug Hall.

Biotechnology, Jaqueline  
Shanks, Phytocatalysis:  
Applications in Metabolic  
Engineering and  
Bioremediation, 3:30 p.m., 239  
Gortner Lab.

December 4    Special Thesis Defense, Gian  
Tropp, Biochemical and Genetic  
Regulation of NADH-Glutamate  
Synthase in Alfalfa, 2:00 p.m.,  
306 Borlaug Hall.

Brown Bag Lunch Series,  
Cultural Chat: Central and  
North America, 12:00 noon, 306  
Borlaug Hall.

## Position Announcements (Posted in 411 Borlaug Hall)

UNIVERSITY OF CALIFORNIA  
Cooperative Extension Farm Advisor in  
Strawberries, Caneberries, and Small Farms.  
M.S. in horticulture, plant science, IPM or closely  
related field is required.

Closing date: January 31, 1999

UNIVERSITY OF KENTUCKY  
Faculty Position in Tobacco Genetics and  
Breeding, Department of Agronomy. Ph.D. in  
plant genetics and experience with tobacco  
breeding and production.

Closing date: December 18, 1998

## UNIVERSITY OF MINNESOTA

Information Technology Professional, College of  
Human Ecology. BA/BS plus six months  
experience, or combination of education/  
experience in operating systems, software  
applications, computer hardware and  
peripherals, and web site development.

## PURDUE UNIVERSITY

Assistant Professor (two positions available),  
Department of Botany and Plant Pathology. One  
position is in Plant Molecular Biology and the  
other in Fungal Biology. Ph.D. and postdoctoral  
experience in plant molecular biology,  
physiology, biochemistry or related areas.

Closing date: February 1, 1999

# Agronomy Gleanings

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411 Borlaug Hall, 1991 Buford Circle, St. Paul, MN 55108  
PHONE (612) 625-7773; FAX (612) 625-1268; E-MAIL agro@coafes.umn.edu  
December 7, 1998

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## ANNOUNCEMENTS

The Corn Breeding and Genetics Search Committee reviewed twenty applications and have selected four candidates to be interviewed. The plan is to complete the interview process in December. Please note below the individuals and dates of the interviews and mark your calendars. The seminars will be at 9:00 a.m. in 306 Borlaug Hall for every candidate.

-- Monday, December 14, Susanne Groh, Post-doc, University of Minnesota

-- Friday, December 21, Chongqing Xie, Post-doc, Univ. of Calif., Riverside

-- Tuesday, December 22, Daryl Hexum, Director, Corn Research, Growmark, Williams, Iowa

-- Wednesday, December 23, Vernon Gracen, Research Director, Cargill, Minneapolis

International Short Course on Agroecology--The University of California, Santa Cruz, through its Department of Environmental Studies and the Center for Agroecology and Sustainable Food Systems, announces an international short course on Agroecology for extensionists, farm advisers, trainers, NGO managers, farmers, advanced undergraduate students, graduate students, researchers, professors, and other agricultural professionals from around the world to be held in Santa Cruz, California, August 16-27, 1999. The course is designed to give a practical, "hands-on" experience with the application of agroecological principles to the design and management of sustainable farming systems. To attend, please apply as soon as possible, before the application deadline of March 1, 1999. Updated course information is available on-line at <http://www.agroecology.org/shortcourse.htm>.

COAFES Faculty Assembly, Wednesday, December 16, 9:00-11:00 a.m., Room B45 Classroom Office Building.

Greenhouse Users--Reminder: Today is a clean up/watering day. Your cooperation is appreciated by all greenhouse users.

Holiday Party--Reminder to mark your calendars for the Agronomy and Plant Genetics Holiday Party to be held on Thursday, December 17, 1998 from 12:00 to 2:00 p.m. in 306 Borlaug Hall. The party will be potluck (bring your favorite dish) and also will include Food Drive Donations.

Toys for Tots--Put a smile on a child's face by bringing an unwrapped toy to the Agronomy Dept. main office, 411 Borlaug Hall, December 1st until December 18th.

Farewell--Mary Ann Palmer, Department of Entomology, has accepted a position as Principal Assistant to Ramsey County Commissioner Jan Weissner. Please join in celebrating her many years of outstanding contributions to the University and to wish her well in her new venture. A reception will be held in 310 Alderman Hall from 10:00 a.m. to noon on Thursday, December 10, 1998.

## SEMINARS

December 7 Floriculture Breeding and Genetics candidate in Horticultural Science Dept., Dr. Neil O. Anderson, PanAmerican Seed Company, "Breaking New Crop Barriers," 10:00-11:00 a.m., 310 Alderman Hall.

Plant Pathology, Dr. Robert Nyvall, "Research on Cultivated Wild Rice Diseases," 2:30 p.m., 365 Borlaug Hall.

December 9 Floriculture Breeding and Genetics candidate in Horticultural Science Dept., Winthrop B. Phippen, Purdue Univ. "Genetic Instability in Plant Pigmentation: The Greening of Purple Ornamental Basil," 10:00-11:00 a.m., 310 Alderman Hall.

Weeds Discussion Group

December 14 John Zhang, Weed Soil Seed Bank,  
12:00 noon, 306 Borlaug Hall.

**POSITION ANNOUNCEMENTS**

(Posted in notebook in 411 Borlaug Hall)

**AGRACETUS CAMPUS, MONSANTO COMPANY**

Crop breeder or geneticist located in Middleton, WI.  
M.S. in plant breeding or a B.S. degree with at least two  
years experience in applied plant genetics.

Closing date: December 31, 1998

**USDA/ARS**

Research Agronomist/Plant Physiologist in Morris, MN.  
Comprehensive knowledge of basic principles of crop  
production, plant physiology, crop ecology, and soil-  
plant-water relations, and/or directly work-related  
experience required, along with a general knowledge of  
soil science, statistics, and plant genetics; Ph.D. is  
desirable.

Closing date: December 28, 1998

**UNIVERSITY OF MINNESOTA**

Assistant Vice President for Research and Associate  
Dean of the Graduate School. This is an internal search.  
The selected individual must be a tenured member of the  
Univ. of Minnesota faculty and must hold full-member  
graduate faculty status in a graduate degree program. A  
terminal degree is required and the Ph.D. degree is  
preferred.

Closing date: December 23, 1998

**KANSAS CROP IMPROVEMENT ASSOCIATION**

Field Services Supervisor, Manhattan, Kansas. Required  
B.S. in Agronomy or related field; preferred M.S. in  
Agronomy or related field.

Closing date: January 15, 1999

**CLEMSON UNIVERSITY**

Tenure-track faculty position at the level of Assistant  
Professor in Biochemistry with interest in general area of  
enzymology. Postdoctoral experience is required.

Closing date: January 15, 1999

**CLEMSON UNIVERSITY**

Tenure-track faculty position at the level of Assistant  
Professor in Cell Biology. Seeking a broadly educated  
cell biologist whose research is based on a fundamental  
interest in the integrative, comparative, or evolutionary  
biology of organisms.

Closing date: January 15, 1999

# Agronomy Gleanings

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December 14, 1998

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## ANNOUNCEMENTS

**Holiday Potluck Party**, Department of Agronomy and Plant Genetics--Bring Your Favorite Holiday Dish to Share with Friends. Food Drive Donations will be accepted.

When: Thursday, Dec. 17th

Where: 306 Borlaug Hall

Time: 12 Noon-2:00 p.m.

Price: \$2.00

Please bring your food, with a serving spoon, to 306 Borlaug Hall between 8:00-9:00 a.m.

Join us for a full fare of:

Food! Friendship! Fun! Festivities!

**"Toys for Tots"** Reminder--This is the last week to bring your unwrapped "Toys for Tots" to 411 Borlaug Hall. Pick-up day is Friday, December 18th.

**Cookie Party**--The office staff will hold their annual cookie party on Monday, Dec. 21 from 9:00 a.m. to 12 noon in the main office. Everyone is welcome.

**Pesticide Applicator's License**--Attention persons renewing their pesticide applicator's license. I will be processing one check for persons in our department renewing their pesticide license. When you receive your renewal form in the U.S. mail, complete and return to me indicating which CUFS # I am to pay your application fee from. Thank you for your cooperation. Marilyn Swanson

**Postage Rate Increase**--A postage rate increase will go into effect on January 10, 1999. First-Class stamp will be 33 cents. New rate information is available on the Internet at <http://www.usps.gov/>. Select the following options: 1) Business, 2) Rate Case Information, 3) January 10, 1999 Rate Change Information, 4) Rate Tables.

**Weeds Discussion Group**--John Zhang, Weed Soil Seed Bank, Monday, Dec. 14, 12 noon, 306 Borlaug.

**Outstanding Community Service Awards**: Nominations Due January 29--The newly established University Outstanding Community Service Award will be given to honor community outreach and community service activities of faculty, staff, and members of the greater University community. This first-time award recognizes outstanding contributions and accomplishments of faculty, staff or community members who have devoted their time and talent to make substantial enduring contributions to the community and to improving public life and the well-being of society. Five University Outstanding Community Service Awards will be given this year for the Twin Cities Campus. Awards given to faculty or staff will carry a permanent salary supplement of \$1500 annually during their employment at the University of Minnesota. Any person or group may make a nomination. The original and six copies of nomination materials should be submitted by Friday, January 29, 1999 to the University Outstanding Community Service Award Committee, c/o Linda Blake, Office of Human Resources, Room 16, Morrill Hall.

**December Faculty Meeting**--The next Department faculty meeting will be Tuesday, December 15, 1:00-3:00 p.m. in 306 Borlaug Hall.

**Greenhouse Users**--I will be gone on Wednesday, December 16th. Everyone needs to do their own watering. Thanks, Pam.

## SEMINARS

December 14

Dept. of Agronomy and Plant Genetics, Corn Breeding and Genetics candidate, Susanne Groh, Postdoc, Univ. of Minn., "Genetic Analysis of Multiple Borer Resistance in Tropical Maize," 9:00 a.m., 306 Borlaug.

Dept. of Hort. Science, Floriculture Breeding and Genetics candidate, Marietta Loehrlein, Dept. of Hort., W. Illinois Univ., "Floral Initiation of Regal Pelargonium," 10:00 a.m., 310 Alderman Hall.

December 16 Dept. of Horticultural Science,  
Floriculture Breeding and Genetics  
candidate, Sven Verlinden, Dept. of  
Hort. and Land Arch., Purdue Univ.,  
"Ethylene and Flower Senescence,"  
10:00 a.m., 310 Alderman Hall.

**POSITION ANNOUNCEMENTS**  
(Posted in notebook in 411 Borlaug Hall)

**THE UNIVERSITY OF TENNESSEE,  
KNOXVILLE**

Post-Doctoral Research Associate, non-tenure track.  
Earned doctorate in animal science or  
agronomy/crops or closely related fields with major  
emphasis in beef cattle nutrition and management  
and/or forage crops ecology and management. A  
strong background and experience in statistics, linear  
mixed models, production systems modeling is  
essential.

Closing date: January 31, 1999

**UNIVERSITY OF CALIFORNIA, RIVERSIDE**

Assistant Professor of Environmental/Resource  
Economics. Must have strong training in  
environmental/resource economics, a Ph.D. degree in  
Environmental Economics, Resource Economics,  
Agricultural Economics or Economics and  
familiarity with policy and management issues  
associated with agriculture, natural resources, and the  
environment.

Closing date: January 11, 1999

**MICHIGAN STATE UNIVERSITY**

Assistant Professor, Cropping Systems Agronomist,  
tenure system. Ph.D. in agronomy or a closely related  
field is required.

Closing date: February 15, 1999

**MICHIGAN STATE UNIVERSITY**

Extension Agriculture and Natural Resources Agent,  
Gratiot County, Ithaca. At least a Bachelors Degree  
(Masters preferred) in Crops and Soils Sciences,  
agriculture economics, or related area with course  
work in agronomy, farm financial management, and  
marketing.

Closing date: December 18, 1998

**SOUTH DAKOTA STATE UNIVERSITY**

Extension Agent, Agriculture in Butte County, Belle  
Fourche, SD. Earned Bachelor's Degree in  
Agriculture with a major in an agricultural field  
including course work and/or experience in Plant  
Science and irrigation. Master's Degree, farm  
background and practicum with an Extension Agent,  
4-H experience, teaching of agriculture, or  
experience in an agricultural oriented business is  
preferred. A major in Animal and Range Science,  
Agriculture Extension, Plant Science/Agronomy,  
Agriculture Education, or Ag/Commercial  
Economics is desired.

Closing date: January 1, 1999

**UNIVERSITY OF WISCONSIN, MADISON**

Scholar in the field of ethics and biotechnology,  
tenure-track. Rank and home discipline and  
department are open. Any relevant discipline,  
including the natural and biological sciences, social  
science, the relevant professions (including law,  
medicine, and engineering), and relevant humanities  
disciplines, such as philosophy.

Closing date: January 15, 1999

**PIONEER HI-BRED INTERNATIONAL, INC.**

Research Manager, Product Development Late  
Maize, Tallahassee, FL. Ph.D. or equivalent in plant  
breeding, genetics, or related field with a strong  
background in molecular and whole plant genetics  
and supporting sciences.

**PIONEER HI-BRED INTERNATIONAL, INC.**

Research Manager, Product Development Late  
Maize, Delmas, South Africa. Ph.D. or equivalent in  
plant breeding, genetics, or related field with a  
strong background in molecular and whole plant  
genetics and supporting sciences.

MW  
8/19/84

# Agronomy Gleanings

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December 21, 1998

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## ANNOUNCEMENTS

University Holiday--December 24-25, University offices closed.

Gopher Crops and Soils Club new officers for 1999:

- President - Tom Buller
- Vice President - Matt Schleicher
- Recording Secretary - George Morris
- Corresponding Secretary - Adam Hart
- Crops Kit Chair - Melissa Huhn
- Crops Kit Co-Chair - Nathan Winter
- Treasurer - Chris Lee
- Ag Board Rep - Chris Overbo
- Historian - Sean Collins
- Photographer - Matt Watrin

Lamberton Research and Outreach Center--Traditional major events to be held at the Station in 1999:

- February 4 - Crop and Soils Day
  - April 7 - Horticulture Day
  - June 23 - Summer Field Day
  - July 21 and 22 - Hail School
  - September 8 - Fall Field Day
  - August 17 - Ag Lender
  - September 21 and 22 - Fall Elementary Field Day
  - October - FFA Soil Judging
- The Station will host the Agricultural Professional School during the week of July 12.

Samples--I found three samples mixed in with some of mine from this past summer. They had been in the "seedhouse" drying ovens in July. They are identified as follows:

- 301-4 BDGR 5 cm 1 FX; 403-4 GR 2 1 PW;
- 403-4 GR 2 2 VL

If anyone wants to claim them, call Keith at 5-4291.

Greenhouse Users--This is a reminder that we will begin the new year with a clean up/watering day. On Monday, January 4th all users need to do some clean up in their greenhouses. Thanks for your help!

Grant Writing Workshop--The Northrup King Development Committee in the Dept. of Agronomy and Plant Genetics invites all U of M faculty, staff, postdocs, and graduate students to attend the USDA-CREES National Research Initiative Competitive Grants Program Workshop, January 7, 1999, 9:00 a.m. to 4:00 p.m., Room 135 Earle Brown Center. Presenters: Dr. Mark Bailey, Program Director of Markets, Trade and Rural Development, and Dr. Mary Purcell, Program Director of Entomology/Nematology and Biologically Based Pest Management. To register for this free workshop, e-mail Marilyn Swanson at holex001@tc.umn.edu or phone 624-1268.

The Alfalfa Project is looking for someone to hire on a FULL-TIME basis for 6 months. The work primarily involves

1. Sample preparation; leaf/stem separations, weighing and grinding.
2. Running samples through Near Infra Red Spectrometer.
3. Assisting in lab procedures.
4. Helping in Greenhouse, caring for plants and crossing alfalfa plants.

The pay is \$8.20/hr and starts in January, 1999. If you know of anyone who might be interested, please call Keith Henjum at 5-4291.

### Courses--

Plant Biology 8910, Journal Club, Section #2, Winter Quarter, 1999, "Plant Molecular, Cellular and Developmental Biology," Tuesdays, Noon-1:00 p.m., BioSciences 648, St. Paul Campus. Instructor: Dr. Neil Olszewski, Assoc. Prof., Dept. of Plant Biology.

Plant Biology 8910, Journal Club, Section #3, Winter Quarter, 1999, "Plant Community Structure with Emphasis on Plant-Fungal Interactions," Thursdays, Noon-1:00 p.m., BioSciences 756, St. Paul Campus. Instructor: Iris Charvat, Dept. of Plant Biology.

## SEMINARS

- December 21 Dept. of Agronomy and Plant Genetics, Corn Breeding and Genetics candidate, Chongqing Xie, Post-doc, Univ. of Calif., Riverside, "Mapping Quantitative Trait Loci Using an IBD (identical-by-descent) Based Variance Component Approach," 9:00 a.m., 306 Borlaug Hall.
- December 22 Dept. of Agronomy and Plant Genetics, Corn Breeding and Genetics candidate, Daryl Hexum, Director, Corn Research, Growmark, Williams, Iowa, "Experiences of an Applied Corn Breeder," 9:00 a.m., 306 Borlaug Hall.
- December 23 Dept. of Agronomy and Plant Genetics, Corn Breeding and Genetics candidate, Vernon Gracen, Research Director, Cargill, Minneapolis, "Plant Breeding Needs for a Changing Industry," 9:00 a.m., 306 Borlaug Hall.

## POSITION ANNOUNCEMENTS (Posted in notebook in 411 Borlaug Hall)

### MICHIGAN STATE UNIVERSITY

Assistant Professor and Extension Specialist: Cropping Systems Agronomist, Dept. of Crop and Soil Sciences. Ph.D. in agronomy or a closely related field is required. Experience in applied research and extension education is highly desirable.

Closing date: February 15, 1999

### UNIVERSITY OF MISSOURI-COLUMBIA

Endowed Associate/Full Professorship, Soybean Breeding and Genetics, Delta Research Center, Portageville. Ph.D. in Agronomy, Plant Breeding, Plant Genetics, or related discipline is required. A strong background in plant breeding, genetics, statistics, and familiarity with molecular techniques is required. Extensive experience in soybean breeding is preferred.

Closing date: As soon as suitable candidate identified.

### UNIVERSITY OF NEBRASKA-LINCOLN

Graduate Research Assistant, Integrated Weed Management. Program focus is on developing Integrated Weed Management (IWM) for cropping systems in eastern Nebraska.

Available immediately.

### ARKANSAS STATE UNIVERSITY

Director of Environmental Sciences Program. Candidates for the associate or full professor position must possess a Ph.D. in environmental science or a related discipline; demonstrate significant research expertise and external funding in environmental sciences (the specific area of interest is flexible), administrative experience, and experience with environmental policy and policy-making bodies.

Closing date: January 6, 1999

### UNIVERSITY OF MINNESOTA

Data Professional, the College of Human Ecology. BA/BS plus six months experience, or combination of education and experience, in computer programming and database management.

### USDA, ARS

Biological Science Laboratory Technician, U.S. Dairy Forage Research Center, Madison, WI (temporary, full-time).

Closing date: January 4, 1999

### WYFFELS HYBRIDS

Corn Breeder, Geneseo, IL. Ph.D. or equivalent in Plant Breeding with a strong background in whole plant genetics and supporting sciences, with a minimum of 2 years relevant experience.

Closing date: before January 31, 1999

### KANSAS STATE UNIVERSITY

Assistant Professor/Tenure Track (12-month appointment), Dept. of Horticulture, Forestry and Recreation Resources. Ph.D. in Horticulture with an emphasis in Woody Plant Materials.

Closing date: March 1, 1999

### KANSAS STATE UNIVERSITY

Assistant Professor/Tenure Track (9-month appointment), Dept. of Horticulture, Forestry and Recreation Resources. Ph.D. in ornamental horticulture with an emphasis in landscape design (teaching experience necessary) or B.S. degree in Ornamental Horticulture with a MLA degree and 5 years experience in the Nursery industry.

Closing date: March 1, 1999