

twig bender

Volume 12 - #1 - January 7, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

MON- PIBr Seminar, Crop/Weed Gene Flow: High Risk or Natural Phenomenon, Paul Meints, 3:30 p.m., 306 BorH.

TUE- Department coffee hour, 9:30 a.m., 398 AlderH. Treats by Evonne Kuyper and Martha Piechowski.

Faculty meeting, 10:00 a.m., 394 AlderH.

PBS Colloquium, Erwinia chrysanthemumi and Pseudomonas syringae: plant pathogens trafficking in extra-cellular virulence proteins, Dr. Alan R. Collmer, Dept. Plant Pathology, Cornell University, 3:30 p.m., 335 BorH.

Hort Club Meeting, 6:00 p.m., 394 AlderH. "Hanging baskets...the do's and don'ts."

WED- Department Seminar, Arboretum youth education: future scientists grown here, Sandy Tanck, Manager of Youth Education, Minnesota Landscape Arboretum, 3:30 p.m., 415 AlderH.

THR- M.S. Thesis Defense Seminar, The influence of cultivar, temperature, and ethylene on blackspot development in tubers of Solanum tuberosum, Richard Peasah, 9:00 a.m., 394 AlderH.

GCB Seminar, Molecular Farming: Who Will Control the Image of Ag-Biotechnology, Sheldon Krimsky, Tufts University, 3:00 p.m., 110 Green Hall.

FRI- DEADLINES FOR: Civil Service Employee Outstanding Performance nominations; ASHS Student Travel Grants; E. Ted Sims, Jr. Memorial Scholarship nominations (undergraduate)

January, 1994

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COMMISSION ON WOMEN....announces a special grants program to support projects which further the Commission's goals: to improve and enhance the working and learning environment for University women. They welcome all proposals to improve the working conditions for women (special events, publications, speakers' series, curriculum change, and workshop, program or conference planning). This year the Commission especially encourages proposals on mentoring (successes through encouragement, support and/or advocacy). Application form available from Jessica Morgan at 624-8283. Deadline February 2.

FTD STUDENT DESIGN CONTEST.....theme is "Floral Fireworks". Students may interpret the theme any way they choose. Design contest rules are posted in student lounge. Submit a color photograph of your entry. All entries must be received by February 25, 1994. Prizes awarded will be plaques and design books valued at approximately \$150, \$100 and \$75 respectively.

COMPUTER ROOM....Rebecca Brown wants to know who has the Omnikey keyboard from the Northgate computer. Please return it. Also if your project is storing equipment in the room, please remove it as the space is needed.

MAP.....car won't start? Lock out? Got a flat?
Call Motorist Assistance Program (7 a.m. to
midnight M-Th and til 10 pm on Fridays)
625-6566

BEDDING PLANTS FOUNDATION,
INC....has scholarships for undergraduate,
graduate, non-traditional students and
vocational students as well as work/study
opportunities abroad. Application materials
are available from Evonne Kuyper in the main
Hort office. Instructors should announce this
to your classes and have students see me for
further information.

THE AMERICAN RHODODENDRON
SOCIETY.....announces that grants for research
on rhododendrons and azaleas will be made by
July 1, 1994 in amounts up to \$3000 to
deserving proposers. Applications must be
received by April 4, 1994. See Evonne
Kuyper for a copy of the format and other
supplemental information.

HORT CLUB NEWS...with the start of
another quarter comes Hort Club activities.
Meetings and activities winter quarter will be
on Tuesday nights. Now is the best
opportunity for you to get involved with the
club whether it be in MACHS planning,
running for an office (elections at the end of
winter quarter), growing greenhouse crops,
coordinating sales or simply by coming to
meetings and activities. With everyone's help,
we can make this the best quarter for Hort
Club, and MACHS ever. Our 1st meeting is
Tuesday January 11 at 6 pm in 394 with
President Scott Endres, Greenhouse
Coordinator Jason Jacobs and advisor Mark
Strefeler giving a presentation on "Hanging
baskets, the do's and don'ts." You won't want
to miss this educational meeting. Afterwards
we will go to the greenhouse to start our own
baskets for the SPRING SALE.

OLE wasn't feeling so hot. So he finally
visited his doctor. "Tell me where it hurts,"
said the doctor. "It hurts here!" said Ole, as he
touched his knee. "And here!" he groaned
touching his ankle. "And here!" as he painfully
touched his stomach. "Hm m m m," said the
doctor. "I bet you're Norwegian." "Ya sure,"
replied Ole. "How did ya know?" "You have
a broken finger."

Greenhouse News
Roger Meissner

RECYCLING...the horticulture
greenhouse has been set up with two
quad recycling systems. One quad is
located towards the north end of the
headhouse next to the Pepsi machine.
The other quad is located in the back
of room 172 (classroom). Please
recycle.

TEACHING...classes using the
classroom and greenhouse during
winter quarter:

- HORT 1036 - Plant Propagation, Peter
Ascher.
- HORT 1023 - Indoor Plants and
Landscapes, Deb Brown.
- HORT 3001 - Growth Regulation of
Horticulture Plants, Bud
Markhart, Emily Hoover.
- HORT 3002 - Horticulture Cropping
Systems, Bert Swanson.
- HORT 5042X - Turf Grass Science,
Don White.
- HORT 5047 - Nursery Scheduling and
Enterprise Development, Bert
Swanson.

PESTICIDE APPLICATION...in the
greenhouse will remain on Friday
afternoons. Your support and
cooperation have been great.

twig bender

Volume 12 - #2 - January 14, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

January, 1994				
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MON- University Holiday

TUE- Department coffee hour, 9:30 a.m., 398 AlderH. Treats by Betsy Zimmerman and Jerry Pierson.

Graduate Studies Committee, 10:30 a.m., 398 AlderH.

Computer Pals, 1:00 p.m., 415 AlderH.

Faculty Consultative Committee, 2:00 p.m., 398 AlderH.

PBS Colloquium, Phytochromes: their increasing family size and expression, Dr. Lee H. Pratt, Dept. of Botany, University of Georgia, 3:30 p.m., 335 BorH.

WED- Diversity in the Workforce, staff training workshops, 8:30 a.m.-4:30 p.m., HHH room 184. Call Julie at 624-9547 to register.

Flower Trials Meeting, 11:00-3:00, 398 AlderH.

Department Seminar, Stability of insect resistance in transgenic plants: some research questions, Dr. David Andow, Dept. of Entomology, U of M, 3:30 p.m., 415 AlderH.

Forest Resources Seminar, Photoperiodism in Black Cottonwood, Glenn Howe, Research Associate, 3:00 p.m., 203 Green Hall.

THR- Prelim Exam, 8-4, graduate students pick up question from Evonne Kuyper.

Scholarship Committee, 9 a.m., 398 AlderH.

GCB Seminar, Genetics of Axis Specification in the Zebrafish, Charles Kimmel, GSA-Invited Speaker, Institute of Neuroscience, U of Oregon, 3:30 p.m., 335 BorH.

Hort 8066 cancelled. Please see Alan Smith to get on the winter / spring schedule which he is putting together. There are several open dates.

FRI- Undergraduate Affairs Committee, 12 noon, 398 AlderH.

MISSING.....Alan Smith's favorite hand-crafted wooden lab stool from room 335 AlderH. Please return - no questions asked.

RUMOR HAS IT.....the department owns a Cyclotec Grinder (orange and white). I would like to borrow it for a few days. If you know where it is please contact me. Daniel Warnock (358 AlderH).

VIDEO TAPE.....the Andersen Horticultural Library has a copy of the tape Canadian Peat and the Environment which "...examines methods of reintroducing and accelerating sphagnum peat moss growth in harvested bogs.... is packed with expert sources..." If you would like to view this video, please make advance arrangement with the Library by calling 443-2460 ext 955. Sandra Gatzke Stevenson.

over

CONFERENCE.....The Indiana Horticultural and New Crops Conference will be held January 25-27. A van will depart for Indianapolis on January 25th and be back in St. Paul the 28th. Conference registration is \$30. Transportation is free and room and board are on you. To look at the conference agenda or discuss travel plans, see Chris Hanson, Center for Alternative Plant & Animal Products, 340 AlderH (4-4217).

M A Pphone number is 625-6566. If your car won't start, locked out, got a flat....CALL.

UPDATE.....on Dave Olson as per Laura Kalisch on 1-14-94. The surgeons removed a majority of the tumor and is expected to live long enough to "pay off the bill" as surgeons would put it. We are thankful that Dave came through with flying colors. You're in our prayers, Dave.

CAR ACCIDENT REPORT.....a number of car accidents this winter include Kath Lloyd, who will be recovering at home for awhile, Dave Plank totaled his car one morning on ice and Bert Swanson's son was involved in an accident also. Any more reports, let the twig bender editor know. We can run one column for accidents.

WELCOME.....to Terri Withers, who resides at Kath Lloyd's desk while Kath recovers. She currently resides in Minneapolis but she hails from Madison (another Badger fan in our midst). Bear with us Terri while we gloat over the Gophers in front of you. Thanks for watering the plants, they were looking mightly peaked.



!GO GOPHERS!

twig bender

Volume 12 - #3 - January 21, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

SUN- Channel 6 MCN, 9 am & 9 pm,
Houseplant Propagation: Grow your
own indoor jungle.

MON- January Thaw Picnic, 11:30-1:00, 3rd
floor AlderH. All are welcome. Bring
meat to grill, dish to share, beverage,
lawn chair, sunglasses and sunscreen.

TUE- Department coffee hour, 9:30 a.m., 3rd
floor Alderman Lobby. Treats by
Maria Janssen and Jerry Pierson.

Computer Pals, 1:00 p.m., 415 AlderH.

PBS Colloquium, The Ecology of
Vegetation in Java, Dr. Edward J.
Cushing, Dept. of Ecology, Evolution
and Behavior, U of M, 3:30 p.m., 335
BorH.

Hort Club Meeting, 6:00 p.m., 394
AlderH.

WED- Department Seminar, Flowering in
Pharbitis, Cheryl Reese, 3:30 p.m.,
415 AlderH.

THR- Joyce Foundation, COA, IAFHE
present a seminar series, Quantifying
Ecological Risks of Transgenic Plants
in Industry Research, Dr. Norman
Ellstrand, Dept. of Botany & Plant
Sciences, University of California,
Riverside, 3:00 p.m., 33 McNeal.

FROM AL SMITH.....lab, room 335 has the
following orphan chemicals: Tolvene, 8 pints;
Perchloric acid, 2 bottles, 500 mls each; 2
methoxyethanol, 5 bottles, 500 mls each.
These are unopened bottles. See Betsy
Zimmerman if you want any of them.

AND

There are some well-aged tissue culture plates
in room 366 that are getting moldy. They are
marked "T.P.". Please take care of them,
whoever owns them

REMINDER....to graduate students who are
planning to attend the ASHS meetings in
Corvallis this coming summer that travel grants
of \$200 are available from ASHS if you are
presenting a paper at the meetings. The
deadline is February 15. See Evonne for
details.

COMPUTER PALS GROUP....will work with
Bud Markhart at the Jan 25th meeting to put
together a presentation for the department.
Many people are connected to ethernet but
some of us are not. What we want to do is give
everyone the information they need to make it
work. Please contact Bud (4-7705) or Jerry
Pierson (4-1218) with questions and concerns
about ethernet connections. The presentation
to the department is scheduled for the
February 1st meeting at 1 pm in 415 AlderH.

WHY GOD NEVER RECEIVED TENURE .
. . . (1) because God had only one major
publication, (2) and it was in Hebrew, (3) and
it had no references, (4) and it wasn't
published in a refereed journal, (5) and some
even doubt God wrote it personally, (6) it may
be true that God created the world, but what
has God done/published since, (7) God's
cooperative efforts have been quite limited (8)
the scientific community has had a very rough
time trying to repeat God's results. Bob Mullin

January, 1994				
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Volume 12 - #4 - January 28, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

February, 1994					
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MON- Soil Science Seminar, Evaluation of the physical properties of ornamental substrates and their relation to plant growth, Suzanne Allaire, Ph.D. student from Quebec, 3:00 p.m., 375 BorH.

TUE- Department coffee hour, 9:30 a.m., 3rd floor Alderman Lobby. Treats by D. Newman and E. Zimmerman.

Graduate Studies Committee, 10:00 a.m., 398 AlderH.

Computer Pals, 1:00 p.m., 415 AlderH.

Faculty Consultative Committee, 2:00 p.m., 398 AlderH.

MACHS Planning Meeting, 5:15 p.m., 394 AlderH. Open to all interested people.

Recognition Reception for civil service and bargaining unit staff members with 20, 25, 30, 35, 40, and 45 years of service, 3-6 pm, Frederick R. Weisman Art Museum.

WED- Department Seminar, Role of branch stations in horticulture research and outreach programs, Gary Lemme, Superintendent, Morris Experiment Station, 3:30 p.m., 415 AlderH.

THR- CS Awards Committee, 12 noon, 398 AlderH.

Hort 8066, debate concerning the exotic versus native species controversy, Dr. Ann Hanchek, organizer; Drs. Mark Strefeler &

Florian Lauer, anti-exotic view; Drs. Harold Pellett & Neil Anderson, pro-exotic view, followed by discussion of the January 20 prelim exam, 4:05 p.m., 394 AlderH.

GCB Seminar, Regulation of Factor VIII Expression and Activity, Randall Kaufman, Howard Hughes Medical Institute, University of Michigan Medical School, 3:30 p.m., 335 BorH.

FRI- Undergraduate Affairs Committee, 1:00 p.m., 398 AlderH.

PBS Colloquium, Testing the adaptive significance of phytochrome in green plants, Dr. Johanna Schmitt, Graduate Program in Ecology, Brown University, 3:30 p.m., 335 BorH.

STOP.....using the 377-16XX budgets as they have been closed since September 30. Thanks, Accounting Office Staff.

MUCH HAPPINESS.....to Peter Velguth and Susan Naeve Velguth who were married on December 11.

ELECTION RESULTS...Civil Service 1993-94 Committee Alternates, 1994-95 Committee Representatives:

FCC - D. Olson
Grievance - L. Brudvig
Computer - J. Pierson
Fac Mtg - R. Meissner
CS Awards - A. Klidzejs & D. Schwarze

DELIVERY AND RECYCLING...of Mpls white and yellow pages on Wednesday, February 2, 305 AlderH. Turn in your old models along with your name to make sure you get a new model.

PARTY....the Hort Graduate Students are hosting a party! **Everyone** (graduates & undergraduates, faculty, staff, bring your family or a friend!) is invited to attend on Friday February 11 at 6:30 p.m. at the Commonwealth Terrace Community Center. Bring a dish to pass (sign-up sheet in back hall). BYO (beverage and eating utensils). Games and entertainment will be provided.

NEWS FROM KATHY LLOYD...."Thank you so very much for the beautiful flowers and the many cards and calls. It was wonderful to open the cards and read your kind thoughts. I really miss everyone! Being ill is very boring! Hope to see all of you soon."

REUSE PROGRAM...for office supplies equipment, etc. Items are FREE to University department. A current list of material can be viewed through the Gopher network or at the Como Recycling Facility located at 3009 Como Avenue between 8-11 and 11:30-2:30 M-F. If you have further questions, call Dana Donatucci, facilities Management at 4-8507.

REMINDER...to the Enhanced Natural Control Working Group that LCMR proposals are due February 4.

GREENHOUSE NEWS

Roger Meissner

PESTICIDE REPORT....pesticides used in the greenhouse during the week of 1-17-94:

- 1) DuraGuard PT1325
- 2) Banrot 40WP

UPDATE....Occupancy of the St. Paul Campus Agricultural pesticide Storage Building is just around the corner (March). The Policy and Procedures

GH NEWS continued.....

for Operation and Maintenance Manual is nearing the final draft. If anyone would like a tour of this facility, please give me a call and I would be happy to give you a tour. To make the move from our present storage facility to the new facility go as smooth as possible, there are a few things that could be taken care of in advance

- 1) Box up and manifest any pesticide dated prior to 1991. Any pesticide dated before 1991 will not be allowed in the new facility or the present one.
- 2) A complete inventory should be made of pesticides that will be moved.

When the time comes for occupancy, departments will have 30 days to complete their move. If you have any questions regarding the use of the new agricultural pesticide storage facility, disposal of unwanted pesticide or any other issues regarding the move from our present storage room, please give me a call.

VEHICLE USE NOTICE....during the winter months, it is very important to keep the fuel tank as full as possible to prevent gas line freeze. Remember to fill the tank before you return the vehicle. Thank you.

BROKEN GLASS....if you encounter any broken glass in the greenhouse, the following steps should be taken:

- 1) Dispose of glass in the white dumpster only. **DO NOT DISPOSE** of any glass in any other waste container.
 - 2) Notify the greenhouse personnel of the location where the broken glass was found.
 - 3) Be safe. Be careful.
-

twig bender

Volume 12 - #5 - February 11, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

MON- Hort Club Valentine's Day Sale, 9-5,
SPSC.

PB Seminar, Blueberry breeding, Greg
Gingera, Ph.D student, 3:30 p.m., 306
Borlaug.

TUE- Department coffee hour, 9:30 a.m.,
Lobby. Treats by Gary Gardner and
Evonne Kuyper

Computer Pals, 1 p.m, 415 AlderH.

Plant Biological Sciences Colloquium,
Evolutionary relationships within the
genus, *Lactarius*, Patrick Leacock,
Ph.D. Research Proposal, 3:30 p.m.,
335 Borlaug.

WED- Department Seminar, The Horticultural
Program at the North Central Research
Station, David Wildung, 3:30 p.m., 415
AlderH.

Staff Training, Diversity in the
Workforce, 8:30-4:30, HHH Room 184.
Call Julie to register (4-9547).

THR- Graduate Studies Committee, 9:00
a.m., 398 AlderH.

Hort 8066, Research Proposal: Isolation
of an ABA receptor Involved in the
Induction of Maize Chilling Tolerance,
Wen-Ping Chen, Ph.D. student, 4:05
p.m., 394 AlderH.

GCB Seminar, Protein Folding and
Dynamic Structure, Claire Woodward,
Dept. of Biochemistry, 3:30 p.m., 335
Borlaug.

FRI- Undergraduate Affairs Committee,
1:00 p.m., 398 AlderH.

DON'T FORGET.....the Graduate Student
Party this evening at the CTC, 6 p.m.
Everyone is welcome and urged to come!
Sign-up and maps in the back hall.

February, 1994

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VALENTINE'S DAY SALE.....Hort Club
members invite everyone to see the signs of
spring at their sale on Monday, Feb 14, 9-5,
SPSC. Modified stems and leaves in a wide
variety of color! We will also be selling
various selected foliage plants along with grape
and apple jelly grown and made at the Hort
Research Center. See you there! Jason Jacobs.

COA DEAN'S LIST.....for Fall Quarter (at least
12 credits with 3.7 GPA or higher).
Congratulations to:

Carla Anderson, Melanie Cervin, Terrel
Davison, Paul Gifford, Marguerite Jaster,
David Lewis, Timothy Linder, Flora Mercil,
Brain Netzt, Faye Propsom, Adrienne Riley,
Heather Kreidermacher.

1994 INTERNSHIP...Undergraduate student
may apply for this PEP internship focusing on
integrated pest management at the Minnesota
Landscape Arboretum and Horticultural
Research Center. FFI/application instructions,
contact Peter Moe at 443-2460 ext 663.
Interview are being schedules on Feb 23 at the
COA Placement Office. (See posting).

CONGRATULATIONS.....to Paul Johnson for
being named to a J.R. Watson Fellowship
sponsored by The Toro Company and The Golf
Course Superintendents of America. Fellows
were selected in a national competition of
Ph.D. candidates in turfgrass science. Fellows
were honored at the annual International
Meeting in Dallas, Texas on February 4 & 5.

FRIENDLY COMPETITION.....to beat Morrill
Hall in saving energy. UBEEP has 12 bldgs

competing. Occupants in Alderman Hall are encouraged to switch off unnecessary electrical items like lights and computers when not in use during the weeks Feb 7-25. Thanks.

LIFE SCIENCES.....grad students, post-docs, MS degree recipients are needed to serve as coordinators for noon-hour seminar series for undergraduate research students for summer 1994. Five hours/week from June 13-August 19 at \$10/hr. Call Linda Daghestani in CBS at 625-2275 for application before 3/4/94.

DEVELOPMENT OFFICER POSITION.....in the COA has been filled by Mr. Stan Sinsky. Mr. Sinsky has extensive and valuable experience in the development field, having held several positions with national fundraising organizations. His office is in 277 Coffey Hall. Please join Richard Jones in welcoming Stan to our College.

KUDOS.....to Angie Klidzejs who has been elected to the Board of Directors of the Cufs User Network.

SIEHL PRIZE.....for Excellence in Agriculture has been awarded to Aldrich Bloomquist, Bert Enestvedt and William Larson in 3 categories respectively: production ag, agribusiness and agriculture-related academics. The Seihl Prize, awarded every 2 years, fulfills the wishes of Eldon Siehl, a Minnesota businessman, farmer, and philanthropist who wanted a portion of his estate to go to the U of Mn Foundation to establish a prize recognizing excellence in agriculture. Each will receive \$50,000 in recognition of their extraordinary contributions to agriculture. Bloomquist, a consultant for the American Crystal Sugar Co. of Moorhead, played a role in forming America's first sugar beet cooperative, which virtually saved the sugar beet industry in the Red River Valley. Enestvedt, a farmer from Sacred Heart, specialized in certified seed production and production programs through a variety of statewide organizations. Larson, a University of Minnesota soil science professor emeritus from Shoreview, is internationally known for his numerous contributions to soil science and farm management practices, including the reduction of soil erosion through conservation tillage techniques. The 3 will receive their awards during a "Salute to Agriculture" ceremony March 17 at the Radisson Hotel Metrodome in Minneapolis.

WORD PROCESSING SECRETARY.....pt, M-F, flex around student's class schedule. WP, DOS, MSWorks/Windows exp. 40+ WPM, gd spell & gram. Duties include file & database maintenance. 15 hr/wk, \$6.75/hr, Call Jan, 645-7066 MN State Hort Soc.

SEARCHING.....for qualified experts to lend technical assistance on a volunteer basis to farmers, farmer organizations, and agricultural institutions in various developing countries through the USAID-funded **Farmer-to-Farmer Program**, an initiative funded by the United States Agency for International Development and administered by Winrock International. The program pays for travel (+visas, passports, medical exams), meals, and lodging. Volunteer experts donate their time & expertise. The program has been in existence for the past two years in Mexico, Nicaragua, Panama, Poland and Hungary. FFI call (501)727-5435, ext 264, Thomas L. Bauer.

GREENHOUSE NEWS

Roger Meissner

PESTICIDE REPORT.....pesticides used in the greenhouse during the week of 1-27-94 and 2-4-94:

Kelthane 35W
Knox-Out
Plantfome 103
Resmethsin PT 1200
Cleary 3336 F
Subdue 2E
Banrot 40WP
Duraguard PT 1325 ME

Please remember to toss unneeded plants away immediately. Greenhouse section floors and benches should be swept on a weekly basis. With tighter pesticide application laws upon us, we must use sanitation as the first and most important step in our pest control. Thanks for your support.

NOTE: If you no longer wish to receive this publication, please notify Evonne Kuyper 624-4242. Thank you.

twig bender

Volume 12 - #6 - February 18, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

SUN- Channel 6 MCN, 9 am & 9 pm,
Conservatory Plants: Visit the
Minnesota Landscape Arboretum's
Meyer-Deats Conservatory.

MON- PB Seminar, DNA fingerprinting in
genetic identification and analyses,
David DeKoeper, 3:30 pm, 306 BorH.

TUE- Spring Quarter Registration Begins

Department coffee hour, 9:30 a.m.,
Lobby. Treats by Greg Gingera and
Debby Newman.

Civil Service staff meeting to discuss
input into the strategic plan for
Horticulture, 10 a.m., 398 AlderH.

Computer Pals, 1 p.m., 415 AlderH.

Plant Biological Sciences Colloquium,
Understanding the interaction between
Rhizobium and alfalfa in symbiotic
nitrogen fixation, Dr. Ann Hirsch,
Dept. of Biology, University of
California-Los Angeles, 3:30 p.m., 335
Borlaug.

WED- Department Seminar CANCELLED

THR- Prelim Exam, 8-4. Pick up question
from Evonne in main office.

Special Seminar, Developmental
Regulation of Fruit Specific Genes,
Dr. Timothy W. Conner, Monsanto
Corporate Research, Plant Gene
Expression Group, St. Louis, MO,
10:40 -11:40 a.m., 306 Borlaug.

Hort 8066, Research Proposal:
Alternative Weed Control Strategies for
Strawberries in the Establishment
Years, Charlotte Herman, 4:05 p.m.,
415 AlderH (NOTE ROOM CHANGE)

Informal discussion group with Dr.
Timothy Conner, 3:30-4:30 pm, 394
AlderH.

February, 1994

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WANTED.....teaching assistant for Hort 1010,
Hone Horticulture, spring quarter 1994. Paid
position for 10 hr/wk. Qualifications: graduate
or undergraduate student with knowledge of
horticulture and interest in teaching. Contact
Wes Hackett, 252 AlderH, Ph # 624-9212.

AVAILABLE....old computer equipment: HP
plotter model #7470A. See Don White, Paul
Johnson or Alex Ellram if interested. They are
located on 4th floor (Rooms 440,455,456).

SCHOLARSHIP....Federated Garden Clubs of
Minnesota, Inc. is offering scholarships to
University students for the next academic
year. You must have a minimum GPA of 3.0
and be at least a 2nd year student in Forestry,
Horticulture and/or Landscape Design.
Applications are available from Deda Jenkins
in 277 Coffey Hall. Deadline: March 15.

VIDEO CONFERENCE....."Journey to
Personal Power", a satellite video conference
will be downlinked to all University campuses
2/24/94 at 12:30 - 4:30 p.m. It is intended for
anyone interested in leadership and
empowerment, but is especially tailored for
support staff. It is sponsored by the Minnesota
Extension Service Civil Service Committee. To
register, call 624-1241.

twig bender

Volume 12 - #7 - February 25, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

MON- Course Evaluation Time, see Evonne to get your course scheduled if you haven't already done so.

PB Seminar, Breeding to improve oil quality, Flavio Capettini, 3:30 pm, 306 BorH.

TUE- Department coffee hour, 9:30 a.m., Lobby. Treats by Curtis Reese and Lynette Brudvig.

Computer Pals, 1 p.m., 415 AlderH.

Faculty Consultative Committee, 2:00 p.m., 398 AlderH.

Kermit A. Olson Memorial Lecture, What did the Dinosaurs eat? Evolution of early land plants, Dr. Patricia Gensel, Paleobotanist, University of North Carolina at Chapel Hill, 4:00 p.m., 110 Green Hall. Scholarship awards presented at 3:30 pm with a reception following the lecture in the lobby of Alderman Hall.

WED- Department Seminar, Breeding strategies for improved resistance to corn leaf rust in sweet corn, Gregory Gingera, PhD student in Plant Breeding, 3:30 p.m., 415 AlderH.

THR- Graduate Studies Committee, 10 a.m., 398 AlderH.

Hort 8066, Research Proposal: Alternative Weed Control Strategies for Strawberries in the Establishment Years, Charlotte Herman, 4:05 p.m., 394 AlderH.

GCB Seminar, Pattern formation and germline determination in *Drosophila*, Ruth Lehmann, Whitehead Institute for Biomedical Research, Cambridge, MA, 3:30 p.m., 335 Borlaug.

FRI- Undergraduate Affairs Committee, 1:00 p.m., 398 AlderH.

February/March 1994

<u>28</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
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MID-AMERICA COLLEGIATE HORTICULTURE SOCIETY'S (MACHS)....annual meeting will be held at the University of Minnesota, Department of Horticultural Science, March 23, 24. Our Hort Club students will be hosting other Hort students from 12 Mid-American States to partake in industry tours, horticultural seminars, paper and poster presentations and plant judging competition. Much help is needed and faculty, staff, and graduate students are encouraged to participate. Information will be put in your mailbox soon. Please help make this a worthwhile experience for all attending. Also, available for sale will be souvenir t-shirts and coffee mugs. Details to follow. Thanks....Scott Endres, MACHS Chairperson and Hort Club President.

DR. PATRICIA GENSEL.....please see Kathy Lloyd to schedule a discussion time with Dr. Gensel on either February 28 or March 1. Graduate students who wish to participate in a brown bag lunch with Dr. Gensel are encouraged to do so on Tuesday, March 1 at 12 noon, 394 AlderH. Information discussion to follow with Hort faculty/students at 1 p.m., 394 AlderH.

ANNOUNCING.....the appointment of Professor Charles F. Louis to the position of Assistant Vice President for Research and Associate Dean of the Graduate School. Dr. Louis is an active member of the faculty of the College of Veterinary Medicine.

BABY GIRL.....born to Maria Jensen and Egbert Spaans on 2/23 at 17:23, U of M Hospitals. Weighing in at 5 lb 6 oz (2430 grams) and 19" (48 cent) tall. Best wishes to your new family.



PACKAGES.....members of department are reminded to check for delivery of packages in the back hall frequently. They need to be removed immediately. Thanks... LK

COMPUTER ROOM NEWS.....we now have an IBM PS-2 386, courtesy of Brad Pedersen. It has wordperfect 5.1 and will shortly have Quatro Pro and perhaps other software. Come check it out! Old IBM computers, some dot matrix printers, 2 teletype machines and assorted other items which are available to anyone who wants them. If interested, contact Rebecca Brown or Bud Markhart before March 10. At that time, any remaining items will be sent to Como Yard. Rebecca Brown.

ISWOP.....International Student Work Opportunity Program is currently accepting applications for financial assistance for the 1994-95 academic year. To be eligible for this assistant, international students must meet the following criteria: 1) have been in attendance at the U of M for at least 12 months; 2) have at least 21 credits completed at this University; 3) have demonstrated financial need, certified by the Office of International Education; 4) must be in the final stages of a degree program; and 5) must be registered for 7 credits (course or thesis credits). If you meet the requirements, please see Laura Kalisch for the application material.

FUTURE DATES ANNOUNCED.....

Graduate School's Guy Stanton Ford Memorial Lecture for 1994, Tuesday, April 19, at 12:15 p.m., SPSC North Star Ballroom.

Lab Fest '94 - April 20 from 10-4.

Philip C. Hamm Memorial Lecture, Thursday, April 28, 3:30 p.m.

SUN- MCN Channel 6, 9 am & 9 pm, Garden Birds: Attract feathered friends to your feeder and garden.

March 1994				
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MON- PB Seminar, Ecological combining ability and the genetics of plant competition, Philip Schwab, 3:30 pm, 306 BorH.

TUE- Department coffee hour, 9:30 a.m., Lobby. No one has signed up to bring treats.

Computer Pals, 1 p.m., 415 AlderH.

Plant Biological Sciences Colloquium, Plant molecular systematics: interfacing molecules, morphology and ecology, Dr. Kenneth Sytsma, Dept. of Botany, University of Wisconsin-Madison, 3:30 p.m., 335 Borlaug.

WED- Department Seminar, Cultivation of grafted vegetables, Dr. Jung Myung Lee, Visiting Professor from South Korea, 3:30 p.m., 415 AlderH.

THR- Hort 8066, Discussion of the February 24th Prelim Exam, 4:05 p.m., 394 AlderH.

GCB Seminar, Primordial Germ Cells and the Formation of the Gonad in Mouse Embryos, Christopher G. Wylie, Institute of Human Genetics, U of M, 3:30 p.m., 335 Borlaug.

FRI- Undergraduate Affairs Committee, 1:00 p.m., 398 AlderH.

ANNOUNCING BABY BOY to Fei Wang & Mae Mei, born March 2, named Eric, weighing 8 lb 4 oz, 21". Congratulations!



EXTRA.....extra, the new University Storehouse & Midwest catalog - Martha Piechowski in 305 AlderH has extras.

THANKS....from Kath Lloyd to everyone who helped make the Kermit Olson reception a success - Deb Schwarze for assistance, Neil Anderson for the beautiful arrangement, and Hort Club, who provided the bulbs and garden boxes. They were very beautiful.

NEED HORTICULTURE HELP? Join in for a whole day of garden learning and fun. Saturday, April 16, 9:30 am-noon before the Specialty Garden Lecture at the University of Minnesota, West Central Experiment Station, Morris. This is co-sponsored by the West Central Experiment Station, Area Master Gardeners, Minnesota State Horticultural Society. There will be on-site demonstrations of pruning ornamentals, spring lawn care, propagating plants and more!

GRAD STUDENTS....the Curtis Howard Dearborn Memorial Horticultural Scholarship is announced. Pick up an detailed application from Evonne Kuyper in 305 AlderH. Deadline to apply is June 1, 1994

FACULTY....the Fulbright Scholar Competition for 1995-96 will open March 1. There are brochures available from Evonne.

SUMMER INSTITUTE....for African Agricultural Research, June 12-July 1, 1994, University of Wisconsin, Madison. Details posted on easel in lobby.

ALUMNI OF GREEK FRATERNITIES & SORORITIES.....to further strengthen the connection between the Greek system on campus (as per President Hasselmo's renewed commitment to support the Greek system's effort) and an improved sense of community for students, Mike Thofson, President of the FarmHouse Fraternity is seeking a list of faculty members who are alumni of such fraternities & sororities to help with this effort. If interested in becoming involved again with your fraternity or sorority, write Mr. Mike Thofson, President, FarmHouse Fraternity, 1505 Cleveland Avenue North, St. Paul, MN 55108.

SPRING CONFERENCE.....sponsored by the Minnesota Landscape Arboretum and the Minnesota Chapter of the American Society of Landscape Architects. *Planting on the Edge: and in the Middle Too.* This conference will focus on plants in nontraditional environments, addressing such topics as design of artificial exterior planting environments, raised highway median strips, the deck area over tunnels, planters, parking lots and behind high retaining walls. Morning key note speaker Hans Littooy, design landscape architect for the Washington State Department of Transportation, will address "I-90 Seattle Corridor Urban Design & Roadside Landscape Development". Afternoon keynote speaker Dr. H.B. Tukey, Jr., Senior Fellow, Center for Urban Horticulture, Seattle, WA, will discuss "Urban Horticulture: Potential for Plant Manipulation". Other speaker include Dawn Gibbis of Summitt Environsolutions, Sue Ramseth and Paul Walvatne of MnDOT, and Gary Mueller also of MnDOT. Panel members will be Jim Hagstrom, Harvey Buchite, Mary McGuire Lerman, Bob Mugaas, and Kathy O'Connell. Contact Carol Spandl at 443-2460 ext. 772 for more information and registration form. Friday, April 8 is the date from 8:00 a.m., - 4:45 p.m., Minnesota Landscape Arboretum, \$40 includes lunch, \$15 for students. Deadline to register April 1, 1994.

twig bender

Volume 12 - #9 - March 11, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

March 1994				
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GRADUATE SCHOOL TUITION SCHOLARSHIP.....announces the continuation of its program for 1994-95. These single-quarter partial or full tuition waivers are one of a number of financial resources available through the Graduate School to help students offset the cost of graduate education. Graduate students who are interested should check out the poster across from their mailboxes for specific details.

MON- Master's Defense Seminar, Component traits in common bean for improved nitrogen fixation: germplasm screening, and early genereti on selection, Rita Pasini, 10:00 a.m., 394 AlderH.

TUE- FCC meeting, 2:00 p.m., 398 AlderH.
Computer Pals, 1:00 p.m., 415 AlderH.

THR- St. Patrick's Day
Faculty meeting, 9:00 a.m., 394 AlderH. (*Will Gary bring green beer?*)

FRI- UAC meeting, 1:00 p.m., 398 AlderH.
Third Friday Horticulture Social Hour, 4:00 p.m., Alderman Hall lobby. (*These will be held every 3rd Friday throughout Spring Quarter*)

SCHEDULE.....Spring Quarter Final Exam week is March 14-19. Break is March 21-25. March 25 is a University Floating Holiday. Spring Quarter classes begin March 28.

WELCOME.....(back) to Mary Meyer, who has been hired as Assistant Professor for the Environmental Horticulture position, effective April 1, 1994 (*no April fools*). Mary got her Ph.D. in horticulture with an emphasis in ornamental grass. Her office will be in 354 Alderman and also at the Minnesota Landscape Arboretum.

HORT CLUB NEWS

Reminder:
If you plan to attend any of the activities for the upcoming Mid-America Collegiate Horticulture Society (MACHS) meetings, registration forms must be turned into Scott Endres' mailbox A.S.A.P. Registration is free for all undergraduate students, graduate students, civil service, and faculty, courtesy of the Hort Club, but we need to know if you are participating in order to make final meal, space, and transportation arrangements. It would be nice to have our department well represented....Scott Endres, MACHS Chairperson.

HORT CLUB ELECTION RESULTS 1994-95 Officers beginning SQ

President	Jason D. Jacobs
Vice President	Mary Dzandzara
GH Coordinator	Dean Engelmann
Treasurer	Robert Quene
Secretary	Melanie Cervin
UAC Rep	Jason D. Jacobs
COA Rep	Dean Engelmann
Faculty Advisor	Mark S. Strefeler

Congratulations! ! !

....over...

**Greenhouse News
Roger Meissner**

1. Spring is upon us and that means warmer temperatures. Cooling pads are in the process of being installed. If anyone has any questions regarding the heating/cooling system of the greenhouse, please contact me.
2. Pesticide application will take place on Saturday, March 12 at 4 p.m. Please take note.
3. Martha Laudert has started experimenting with the biological insect control in sections: K-4, K-5, K-6 and H-3. She is releasing whitefly and thrip predators along with taking weekly soil samples and monitoring average daily temperature.
4. Next week is finals week so that means greenhouse sections, prep rooms, and cabinets should be cleaned out by March 20. Beginning March 21st, the greenhouse staff will be preparing these areas for Spring Quarter classes. Thank you for your cooperation. The teaching faculty and assistants should have received space assignments this past week. If you have any questions, please contact me. The following courses are schedules to use the classroom during Spring Quarter:

1010 Home Horticulture
3072 Turf Management
5034 Commercial Vegetable Agriculture
5048 Nursery Management
5054 Commercial Floriculture Production

twig bender

Volume 12 - #10 - March 18, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

TODAY- Third Friday Happy Hour, 4 p.m.,
Alderman Hall Lobby.

SUN- Channel 6 MCN, 9 am & 9 pm,
African Violets: Easy to grow and so
colorful!

March 1994				
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University Spring Break, March 21-24.

University Floating Holiday, March 25.

MACHS '94 - March 23-26.

DISCOVER HORTICULTURE.....brochure
has been printed and is available for recruiting
of students at the undergraduate level.
Interested persons may pick up the brochure
from Evonne Kuyper in the main Hort office.

BPFI.....is funding research proposals from
horticulturalists/researchers in related sciences.
Deadline is April 1 - contact Center for
Alternative Plant & Animal Products for
details, 342 Alderman Hall or call 624-4217,
Judy Day.

CIVIL SERVICE MEETING.....rescheduled
for Monday, March 28, 9 a.m., 394 AlderH.
Check your memo for list of agenda items. L.
Kalisch.

CONGRATULATIONS.....to the four highest-
scoring undergraduate students competing to
represent the department at the national flower
judging competition (sponsored by Pi Alpha
Xi and the American Floral Endowment). The
judging team will consist of Scott Endres,
Dean Engelmann, Flora Mercil, and Theresa
Prior. Neal Anderson

WARNING - JOKE APPROACHING.....did
you hear about the first fullblooded Norwegian
to win the Indianapolis 500? He made 50 pit
stops, two for gas and oil and 48 for directions!
Submitted by Martha Piechowski

ARTICLES WELCOME.....if you have a new
and/or visiting person in your lab, please write
up a brief introductory article and submit it to
Evonne Kuyper by Wednesday for publishing
in the Friday twig bender. Thank you.

twig bender

Volume 12 - #11 - March 30, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

MAR 31- Hort Club Easter Plant Sale, 9-5, SPSC, featuring Easter Lilies, indoor foliage plants, Hydrangeas.

Pesticide Handling-Worker Protection Standards Workshop, 9:30 a.m., 155 EBC.

PBS Colloquium, Testing the adaptive significance of phytochrome in green plants, Dr. Johanna Schmitt, Graduate Program in Ecology, Brown University, 3:30 p.m., 335 BorH.

Hort 8066, Research Proposal, Consequences of intraspecific hybridization between a native species and cultivar, Tami Van Gaal, 4:05 p.m., 394 AlderH.

APR 1 Hort Club Easter Plant Sale, 9-5, SPSC, featuring Easter Lilies, indoor foliage plants, Hydrangeas.

Last day for Graduate School students who want to participate in spring commencement ceremony to apply for graduation.

APR 3 Channel 6 MCN, 9 am & 9 pm, Cool-Season Vegetables at Home & Market: Get an early start on your garden.

APR 4 PlBr Seminar, Breeding for intercropping systems, Tobb DeHaan, 3:30 p.m., 306 BorH.

APR 5 PBS Colloquium, Acetyl-CoA carboxylase: A rate-limiting step in fatty acid biosynthesis? Eon Seon J. Lee, Ph.D. student, Plant Physiology Program, U of M, 3:30 p.m., 335 BorH.

APR 7 Hort 8066, Auxin structure and function, Dr. Volker Magnus, 4:05 p.m., 394 AlderH.

Last day for undergraduates to apply for spring quarter graduation.



EARLY REGISTRATION....for Fall Quarter, 1994 begins May 16, so now is a good time to promote your courses. You can send flyers to other departments via our department weekly mailing of this newsletter. If you had low enrollment last fall or have a new course, advertise the course now. See Evonne for help.

WELCOME....Mr. Jan, Ling-chen, Professor and Head of Cytology Laboratory at the Institute of Botany, Academia Sinica, Beijing, China, has joined the Laboratory of Plant Hardiness for a year of research. He has been involved in environmental stress research for many years. He works hard to improve his English proficiency, and you are welcome to meet with him on the 2nd floor and/or in room 364 AlderH.

April, 1994						
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JOKE....The great German mathematician, Peter Dirichlet, never wrote a letter or communicated in any way with his friends. Except on one occasion when his 1st child was born, he broke his silence and wired his father-in-law a message: $1+1 = 3$. Submitted by Don White and the Executive Speechwriter Newsletter.

RETREAT.....the civil service retreat is planned for Tuesday, April 12 at the Minnesota Landscape Arboretum. The topic will be interpersonal relationships. All civil service from the department (this includes campus and Arboretum employees) are invited to attend. Lunch will be provided and catered by the Arboretum. This is a great opportunity to meet and get to know our fellow employees in the department.

GUEST SPEAKERS.....Ken Johnson and Ken Fields will be guest speakers in the Hort 3040, Landscape Design and Implementation class, 1-3 p.m., Thursday, April 7. Their topic will include a perspective of the landscape design/build business and the specifics of engineering wood products into the landscape. ALL students, faculty, staff are welcome for 1 or 2 hours of the discussion in room 405 AlderH. Brad Pedersen, Instructor.

GARDEN PLOT NEWS.....Spring is coming and it's time to start planning our gardens. The sign-up sheet for plots is posted across from the faculty mailboxes. Faculty, staff, and students of the department are eligible on a first-come, first-serve basis. Also I am looking for an assistant garden plot coordinator. This person would assist with plot preparation and assignment this spring and take over for me when I finish my degree. See me if interested. Rebecca Brown



KUDOS.....to Rita Pasini, who passed her Master's final exam recently. Rita will be with us into the summer as husband, Danielle, works to complete his degree.

AND TO

Allan Brown, who will receive his BS this spring in Animal & Plant Systems, COA. He has been awarded an RA at New Mexico State in graduate study involving breeding of peppers.

twig bender

Volume 12 - #12 - April 8, 1994
Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

APR 10- 9 am & 9 pm, Channel 6 MCN,
Sweet, sweet corn: Growing the new
super-sweet corn.

APR 12- Retreat for civil service staff, post-docs,
and research associates at the
Minnesota Landscape Arboretum from
9:00 a.m. to 3:00 p.m.

PBS Colloquium, Population biology of
Leedy's roseroot, an endangered plant,
Joel Offelt, Ph.D. Research Proposal,
Dept. of Plant Biology, 3:30 p.m., 335
BorH.

Hort Faculty Consultative Committee, 1
pm - 12 am, 398 AlderH. Faculty Review
Marathon.

APR 14- Hort faculty meeting, 9 a.m., 394
AlderH.

Hort graduate faculty meeting, 11 a.m.,
394 AlderH.

Hort 8066, Research Proposal: Sedge
Meadow Revegetation in Restored
Wetlands, Dr. Susan Galatowitsch, 4:05,
394 AlderH.

APR 15- 3rd Friday Happy Hour, 4 p.m.,
Alderman Lobby.

April, 1994						
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GIVE-AWAYS.....Monroe 3140 electric desktop
calculator; box of 2-part computer paper (NCR
type); box of 2-part computer paper (with
carbons). Please see Angie in the Accounting
office if your office or lab can use these items.

SAVE....1 liter plastic pop bottles for use by the
turf project. Drop them off in 455 Alderman.
Thanks from Alex Ellram.

KUDOS....to Doug Foulk, who passed his oral
prelims.

AND

Margaret (Jones) Alms, B.S. 1976 in Horticulture,
who has been named president-elect of the
National Alliance of Independent Crop
Consultants, and also was honored recently as
the Midwest Region 1993 American Cyanamid
Consultant of the Year.

MACHS.....congratulations to Scott Endres, P.
David Gifford and Flora Mercil for their
accomplishments during the Mid-America
Collegiate Horticulture Society's Plant Judging
Competition. In addition to the University of
Minnesota Team placing first overall, P. David
Gifford also won the individual's category. With
eight universities and over 45 top students
competing, this is truly an outstanding
accomplishment, and evidence of the quality
undergraduate students we have in our
department. Also, congratulations to Jason
Jacobs, who was elected MACHS
Communications Officer for 1994-95.

GOOD LUCK...to the University of Minnesota
Flower Judging Team: Scott Endres, Dean
Engelmann, Flora Mercil, and Theresa Prior, as
they compete this week in the National Flower
Judging Competition in Lexington, Kentucky.

FAXES....please note the new sign above the Fax
table which reminds us all to record the number
of copies we fax in the black book. In March
there were over 290 unaccounted faxes. Lets
turn over a new leaf for April and record our
faxes. Thanks for your cooperation in advance
from the accounting staff.



"You have to graduate...Students don't get tenure."

Greenhouse News
Roger Meissner

Pesticide Application Change: Starting Saturday April 16 and continuing every Saturday through October, pesticide application in the greenhouse will take place. Please follow the two guidelines below:

- 1) On Friday afternoons, projects should make sure that their greenhouse sections are swept and plants well watered.
- 2) No one is allowed in the headhouse or greenhouse until 10 am on Saturdays.
- 3) No one except the pesticide applicator and weekend water person will be allowed to enter the greenhouse section that was sprayed that morning for 24 hours.

A posting of the greenhouse sections to be sprayed will be located outside the greenhouse office. You will also find the pesticide applications for the last 30 days, a WPS safety poster and emergency telephone numbers. If you have any questions about the above procedures, give me a call.

Greenhouse Cooling: Cooling pads are now in place and pad pumps have been activated. I will be applying whitewash to the greenhouse sections beginning April 10. If you would like whitewash applied to your section, let me know which week. Drop that request in my mailbox, voicemail or e-mail.

Propagation Mist Space: propagation mist space is at a premium for spring quarter. Only the left hand bench in G1-A is open for general research. If you need space under mist, let me know.

Pesticide Storage Building: the St. Paul Campus Pesticide Storage and Handling Facility is now open for occupancy. Projects which have pesticides in our present storage room should move these pesticides to the new facility anytime from April 4 through May 1. After May 2nd, any pesticides left will be discarded. If you have not received an updated operations manual (4/93), please contact me. To obtain a key to the new facility and the horticulture department storage cage, contact Tom Warnke or Vince at 5-1228.

AABGA (American Association of Botanical Gardens and Arboreta) STUDENT TRAVEL AWARDS....students who wish to explore careers at public gardens, to meet professional horticulturists and to participate in behind-the-scenes tours should consider attending the AABGA Regional Meeting in their area this year. As an added incentive, the AABGA awards stipends to full-time students to cover all their meeting fees and a portion of their travel and lodging expenses. To receive guidelines and an application, send a SSAE to AABGA, 786 Church Rd., Wayne, PA 19087. The deadline for completed application is May 1, 1994.

PEOPLE FOR PARKS....has published a list, "Where are the Daffodils blooming in the Minneapolis Parks?" If interested call 661-4778, Lara Keeley.

WORKSHOP: Bringing International Faculty, staff and Scholars to Your Department on Tuesday, April 26 from 8:30 a.m.-11:30 a.m., Dale Shephard Room, Campus Club, Coffman Memorial Union. When you invite international faculty, staff, or scholars to your department, there are issues concerning their legal entrance and stay in the US of which you should be aware. The purpose of this workshop is to help you understand these issues and the role of International Student & Scholar Services in the process associated with obtaining the proper visa status. Call Becky Reyer at 626-7452 to attend.

twig bender

Volume 12 - #13 - April 15, 1994
Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

April, 1994						
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MON- Computer Applications Committee, 1:00 p.m., 398 AlderH.

TUE- Faculty Consultative Committee, 2:00 p.m., 398 AlderH.

PBS Graduate Group, Faculty & Student Annual Meeting, 3:30 p.m., 335 Bor.

Guy Stanton Ford Memorial Lecture, God's Utility Function, Dr. Richard Dawkins, Oxford University, 12:15 p.m., SPSC, North Star Ballroom.

WED- Lab Fest '94, annual Scientific Product Show of 60+ scientific vendors and University department with lab-supporting function, Radisson Hotel Metrodome on Washington Ave SE, 10 am - 4 pm.

THR- Prelim Exam, 8-4, graduate students pick up the question from Evonne in 305 AlderH.

Graduate Studies Committee, 8:30 a.m., 398 AlderH.

Greenhouse Committee, 10:00 a.m., 394 AlderH.

Hort 8066, Research Proposal, Susan Fuerstenberg, 4:05 p.m., 394 AlderH.

NEW ARRIVAL....at the Fritz' home, Benjamin Nathanael Fritz, 19 lbs 6 oz. Barb, Vince, and Brandon greeted Ben at the airport on March 31. What an Easter present! Congratulations!



REMINDER....starting Saturday, April 16, the greenhouse/headhouse will be closed to all personnel because of pesticide application. See article on greenhouse news in April 8 Twig.

REPORTED MISSING.....herbaceous perennials that belong to the TRÉ project have disappeared from E4 in the greenhouse. It would be greatly appreciated if these plants were returned. Thank you in advance from Jim Calkins and Debby Newman (4-9231).

UBEEP.....Alderman Hall reduced its energy consumption during the You Can Beat Morrill Hall Contest by 17.2%. On Wednesday, April 20, cookies will be delivered to 305 Alderman to celebrate our achievement. Everyone in the building is welcome to stop by for treats.

RETIREMENT LUNCHEON.....to honor those who have provided support and service to the St. Paul Campus, May 24, noon, Earle Brown Center. The program is at 12:30. Tickets can be purchased for \$6 from Kathy Lloyd in 305 AlderH.

COA STUDENT BOARD.....announces Spring Family Day, May 1, St. Paul Campus. Selected labs and teaching facilities will be open for self-guided tours from 12:30-2:30 p.m. COA students and their families are invited to attend. For details, call 524-3009.

SIREN.....St. Paul Internal Routing Emergency Network has been established to enhance campus security, prevent theft and other crimes and improve St. Paul campus communication. It is an internet-style mailing list for emergency purposes to disseminate problem reports to St. Paul campus departments. To request a membership, send e-mail message (type Subscribe in the subject line) to:
siren-request@mail.unet.umn.edu

MESSAGE....to the University Community from Regent Jean B. Keffeler, Chair, Board of Regents. They invite feedback regarding the proposed University Budget Plan (copy available from the Regents' Office, 612-625-6300). Ways to facilitate communications include:

- send in writing to 220 Morrill Hall
- fax at 624-3318
- e - m a i l a t I N T E R N E T : muesing@mailbox.mail.umn.edu
- request time to speak at open forum, 7 p.m., April 26 (see posting across from faculty mailboxes).

3RD FRIDAY DEPT HAPPY HOUR TODAY (4/15) AT 4:00 IN ALDERMAN LOBBY

WORKSHOP (Instructional Multimedia) for Agricultural and Veterinary Faculty, June 12-17, Iowa State University, Ames. The purpose of this workshop is to provide agricultural and veterinary faculty with the knowledge and skills necessary to use digital technologies in their instructional program. They are particularly interested in identifying teaching faculty who are using computers but who either have not had opportunity to digitize teaching slides and transparencies or have not utilized digital files for classroom presentation. For further information and application materials, contact, Donald R. Adams, 515-294-7710; FAX 515-294-3932; e-mail dadams@cvm01.vvm.iastate.edu

VIDEOCONFERENCE....on communicating with the public about biotechnology and food. May 12 from 1-3 pm. Extension agents, community leaders, educators and others interested in biotechnology education are invited to participate in a video satellite program, Biotechnology and Food* A Public Issue for Extension Education. The program will include written materials, case studies that compare and contrast different public responses to several foods and drugs that are produced with biotechnology, and an introduction to BCEPP, the Biotechnology Education and Public Policy computer list server that connects Extension personnel and others working on biotechnology education across the country. The case studies will examine Bovine Somatotropin (BST), an anti-cancer drug called Taxol, the Flavr Savr tomato and Chymosin, and rennet used in cheesemaking. Participants can compare and contrast the different public responses to biotechnology created by each of these examples. For more information about the video satellite program, contact Bill Schafer, Extension Food Technologist, so that a Minnesota downlink list may be sent to Wisconsin 624-4793.

twig bender

Volume 12 - #14 - April 22, 1994
Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

SUN- Channel 6 MCN, 9am & 9pm, Feeding Your Lawn: Learn environmentally-safe ways to have a great lawn.

April, 1994						
S	M	T	W	T	F	S
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TUE- Faculty Consultative Committee, 9 am, 398 AlderH.

Hort Faculty Meeting, 10 am, 394 AlderH.

Computer PALS lunch, 11:15 am. RSVP to Jerry Pierson at piers004@maroon.tc.umn.edu or drop him a note in his mailbox.

THR- "Bring Your Daughter(s) to Work Day" sponsored by The College of Agriculture

Hort Public Relations Committee, 9 am, 398 AlderH.

Philip C. Hamm Memorial Lecture, The Scenery Beneath the Greenary: Roots and Rhizosphere, Dr. Margaret E. McCully, Biology Department, Carleton University and Ottawa-Carleton Centre for Graduate Studies, Canada, 3:30 reception (McNeal Lobby), 4:00 lecture, 33 McNeal.

Hort 8066, Research proposal: Development of Sweet Corn with Resistance to European Corn Borer, Daniel Warnok, Ph.D. student with Dr. David W. Davis, 4:05 pm, 394 AlderH.

Greenhouse News Roger Meissner

MISSING....from the teaching prep room:

- 1) Mettler Scale valued at \$1600
- 2) A.W.Sperry digital lightmeter
- 3) FLUKE digital thermometer

Please contact me if you know the whereabouts of these items.

REMINDER...on pesticide move. This is the last week projects will have to move their pesticides to the new Pesticide Storage Building. After May 2, all pesticides left in our present storage room will be up for grabs. If you need any info on moving your project pesticide, contact me.

FIELD PLOT IRRIGATION...The field plot irrigation was activated on Thursday, April 21. When driving around the field plots, be watchful for the irrigation stand pipes.

PESTICIDE APPLICATIONS remember to check the blackboard across from the greenhouse office each Friday to see which greenhouse section will be sprayed on Saturday. No one should use the headhouse facility when spray application is in progress.

GRAD STUDENTS.....a reminder that funds for travel to meetings provided in the form of a fellowship are available. Submit your application to Evonne by April 29. Contact Francis or Holly at Daisy Travel- 481-1660 for help on estimating your travel budget. (*time to take advantage of the Northwest airfare reductions*). That Northwest reduction in airfare is good until April 27. ACT NOW.

..... HAVE A GOOD WEEKEND

twig bender

Volume 12 - #15 - April 29, 1994
Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

ASK THE EXPERTS, May 2-6, KARE 11 News, 5-7 p.m., Master Gardeners will be answering consumer questions. Be sure to tune in.

May, 1994						
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29	30	31				

MON- Quarterly Extension Faculty Meeting, 8:30 a.m., Earle Brown Center (135AC)

Biological Forum, Who's Controlling Whom? Geneticists and the Atomic Energy Commission in the Fifties and Sixties, John Beatty, Department of Ecology, Evolution and Behavior, 7:00 p.m. social, 7:30 p.m. program, 306 Borlaug.

THR- Graduate Studies Committee, 8:30 a.m., 398 AlderH.

Hort 8066, Discussion of the April 21 prelim exam. Drs. Hoover, Smith, and White, 4:05 p.m., 394 AlderH.

MISSING....300' measuring tape with large orange handle labeled 'FRT'. Return to fruit group or contact J. Luby or just plain return.

RECYCLING...of used toner cartridges can be done by returning them to UStores via Campus Mail. For questions on procedure, contact Martha Piechowski in main office.

GRANT WRITING TRAINING OPPORTUNITY. . . workshop presented by The Grantsmanship Center is being offered in Burnsville, May 16-20. This is an intensive 5-day workshop covering all aspects of researching for grants, writing grant proposals, and negotiating with funding sources. During class you will search out funding for your agency using the materials available in the

workshop. With a team you will develop a proposal for your agency or help a classmate prepare a proposal. This training program has been conducted since 1972, with over 50,000 people from non-profit and government agencies attending. The cost is \$545.00. For more information, contact Kay Anderson, Grants Development Coordinator, phone: 612-624-3452 or e-mail: kanderson@mes.umn.edu., or call the Grantsmanship Center at 1-800-421-9512.

STUDENT/STAFF DIRECTORY....within the next two weeks, all faculty and staff will receive a Staff Demographic Information Update Form. You will be instructed to check the accuracy of the information and turn them into Laura Kalisch for verification by department. Employees who do not receive a form may pick one up from Laura Kalisch.

MISSING....Volume 4, number 7 of Plant Cell. Did I lend this to anyone? Please return it if you've got my copy. Cindy Tong

GORDON L. STARR AWARD....for University faculty or staff members who have made a significant contribution to student life. It is not a teaching award. See Evonne for details. Deadline is May 3.

WANTED....brown grocery bags that you may have accumulated over the winter months for Hort Club. Drop them off in the Hort Club Lounge. FFI contact Jason D. Jacobs, Pres.

U M HORT CLUB *Spring Plant SALE*...May 12, 13, (9-5) 14 (9-noon), SPSC (BIG TENT outside). There will be hanging baskets, herbs, shrub roses, climatis, strawberries, perennials, annuals, azaleas and yes...RASBERRIES (like Lawrence Welk would say).



Twig Bender

Volume 12 - #16 - May 6, 1994
Editor: Martha Piechowski

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

May 8 - 9 a.m. & 9 p.m. Channel 6 MCN
Conservatory Plants: Visit the Minnesota
Landscape Arboretum's Meyer-Deats
Conservatory.

May, 1994						
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29	30	31				

WED- Departmental E-Mail Training 3:30
p.m. in 415 Alderman conducted by
Phil Schwab of Agronomy. Everyone
is encouraged to attend.

Biochemistry/Pharmacology "Gene
Regulation by Growth Factors", Dr.
Edward Ziff (NYU Medical Center),
2-530 Moos Tower, 4:15 pm

THR- Faculty Meeting 9:00 a.m. 394
Alderman

Hort Club Spring Plant Sale. 9-5 today
and tomorrow & Saturday in front of
the Student Center. Remember to
bring your paper sacks for Jason.
They are needed for the plant sale.

Hort 8066, *A Novel Water Potential
Sensor: Development with Industry*,
Dr. Bud Markhart, 4:05 p.m., 394
AlderH.

Genetics & Cell Biology/Agronomy &
Plant Genetics "Seeing Genes in
Action", Oscar Miller, Jr. (U VA-
Charlottesville) 335 Borlaug Hall, 3:30
p.m.

FRI- 3:30 Plant Growth & Development
Meeting, room 394

An AT&T International Fax Dialing Guide is
available to help us in sending foreign faxes.
It is located near the fax machine in 305
Alderman.

There is a suggestion box near the vending
machine on 3rd floor of Alderman. Please
suggest that they install a change machine.
Thanks, Kathy L.

Please save styrofoam peanuts and other
packing material for Alex Ellram (Rm 455).
Thanks!

Summer employment with the USDA Gypsy
Moth Survey is available full time starting
June 3. The pay is \$8.09 per hr. Experience
and education requirements for this position
are posted on the bulletin board.

The following are some examples (submitted
by John Carter) of how English is being used
in different parts of the world. Here goes.

In a Bucharest hotel lobby: *The lift is being
fixed for the next day. During that time we
regret that you will be unbearable.*

In a Paris hotel elevator: *Please leave your
values at the front desk.*

In a hotel in Athens: *Visitors are expected to
complain at the office between the hours of 9
and 11 a.m. daily.*

In a Yugoslavian hotel: *The flattening of
underwear with pleasure is the job of the
chambermaid.*

In a Japanese hotel: *You are invited to take
advantage of the chambermaid.*

In an Austrian hotel catering to skiers: *Not to
perambulate the corridors in the hours of repose
in the boots of ascension.*

On the menu of a Swiss restaurant: *Our wines
leave you nothing to hope for.*

twig bender

Volume 12 - #17 - May 13, 1994
Editor: Evonne Kuyper

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

MAY 12 - Summer registration began for currently enrolled students.

JUNE 3 - Last day of instruction.

4 - Study day.

6-11 - Final examinations.

May, 1994						
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22	23	24	25	26	27	28
29	30	31				

MON- Early registration for fall 1994 begins.

Student lunch seminar on mentoring, Navigating the Transitions from graduate student/post doc to professional, Dr. Sue Geller, Dept of Mathematics & Dept. of Veterinary Anatomy and Public Health, Texas A & M University, 11:30-1:00, Mississippi Room. Reservations required, Wendy Grebner 4-1317 or grebn002@maroon.tc.umn.edu.

Open faculty forum on mentoring, moderator, Dr. Sue Geller, 3:00-4:30 p.m., 155 EBC. RSVP to Wendy Grebner at 4-1317 or grebn002@maroon.tc.umn.edu.

TUE- FCC, 1 pm 398 AlderH.

THR- GSC, 8:30 a.m., 398 AlderH.

Hort 8066, Research Proposal: Biological Control of *Phythium* Related Damping Off of Shrunken 2 Sweet Corn Seedlings, Curt Reese, MS student, 4:05 p.m., 394 AlderH.

FRI- 3rd Friday Happy Hr, 4 p.m., Lobby.

E-MAIL TRAINING.....on June 1 and June 8 in 415 Alderman at 3:30 p.m. Topics covered will be GOPHER, TELNET AND FTP. Have

your questions answered about sending enclosures and creating aliases. Training is also available for the individual or your lab group. Sign up in the main hort office. Appointments are available on Friday afternoons. Phil Schwab.

THOUGHT.....there's a line on the ocean where you lose a day when you cross it. There's a line on most highways where you can do even better.

AG AWARENESS DAY....Sunday, May 22 from 2-5 p.m. at West Central Experiment Station, Morris. The activities and displays were developed to create a full-filled, family atmosphere geared toward telling the story of modern agriculture to children. There will be demonstrations and displays related to all eight active areas of research (Agronomy, Ag Econ, Beef, Dairy, Horticulture, Sheep, Soils, and Swine). Take a Sunday afternoon drive in rural Minnesota and visit the WCES.

ID PHOTOS.....for student/staff can be taken at 130 Coffey Hall from 9-4 weekdays. The cards must be obtained in Williamson Hall on Mpls Campus.

ERRORS/ADDITIONS/CORRECTIONS...in the fall quarter class schedule will be corrected in a supplement published in August.

SCHOLARSHIP AVAILABLE.....Ph Chapter of Epsilon Sigma Phi, the National Honorary Extension Fraternity, announces four \$250.00 scholarships. For the graduate education category (individuals seeking advanced degrees) one need not be a member if Epsilon Sigma Phi. For the professional development category (not seeking advanced degree), Epsilon Sigma Phi membership is required. The application deadline is June 1, 1994. Applications available from Deb Zak, Extension Educator, Pennington County, 218-681-2116.

A vigorous walk will do more good for an unhappy, but otherwise healthy adult than all the medicine and psychology in the word.

JOB POSTINGS.....MSHS is seeking a well-organized person to coordinate and supervise volunteers who represent the Society in many settings. This is a full-time permanent position.

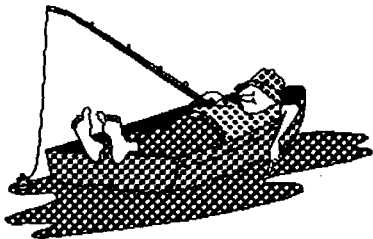
MSHS seeking persons for sub-contract assignments outreach, to implement youth-oriented project and Minnesota Green Community Gardening assistance.

Please send letter of interest with related experience or resume by June 9 to Minnesota State Horticultural Society, 1755 Prior Ave No., Falcon Heights, MN 55113

RENOWNED GARDEN AUTHORS COMING IN JUNE.....English gardeners Christopher Lloyd and Rosemary Verey will present beautiful slides and exciting garden ideas on June 16 at 7 p.m., at the Earle Brown Center. Reservations by calling MSHS 645-7066; \$17 for members; \$20 for non-members. Sponsored by MSHS and MLA.

WHAT WOULD THEY THINK.....big ole has been having trouble making the payments on his pickup truck. One day he got a letter from the finance company asking. "What would your neighbors think if I came by and repossessed your car?" Within the week Ole had a letter back to the company. "Ay shekced vit dem all and de all agree dat it would be a lousy trick," Ole wrote back.

Happy _____ Opener!



FRACTURED FLORAL DICTIONERY

Jasmine: An underground tunnel where people dig hot music.

Marigold: To find a rich spouse.

Balsam: As in the expression, "I pine for you and balsam."

Stephanotis: Fear of people named Stephan.

Gladiola: Gladiator health food.

Sweetheart Rose: What sweetheart did when she sat on the dog.

Hollyhock: Pawnbroker's Christmas greens.

Carnations: Japan, U.S., Germany, etc.

Curly Willow: Pussy willow that uses L'Oreal.

Mistletoe: What a good place kicker has.

Dandelion: The one who works for MGM.

Freesia: Indicating cold, as in "This weather'll freesia buns."

Shamrock: When the Grateful Dead fake it.

Chrysanthemum: Columbus and his mother.

Tulips: The best thing to use for a wet kiss.

Hyacinth: What you say to a sinth.

Fungi: The life of the party.

Ting-Ting: A childish expression for using the bathroom, "I go ting ting."

Disaster: In Brooklyn, answer to the question, "Which aster do you want?"

twig bender

Volume 12 - #187 - May 20, 1994
Editor: Evonne Kuyper kuype001@maroon.tc.umn.edu

Department of Horticultural Science
305 AlderH., St. Paul, MN 55108

SUN- Channel 6 MCN, 9 am & 9 pm, Fruits & Berries: Grow delicious fruit & berries in your own backyard.

May, 1994						
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29	30	31				

MON- COA Curriculum Committee, 10:30 a.m., 401 Coffey Hall.

WED- Dept. Seminar, growth chambers and capabilities by EGC, 3:30 p.m., 415 AlderH.

THR- Hort 8066, Research Proposal, Chen Yi Hung, 4:05 p.m., 394 AlderH.

COURSE EVALUATION.....time....to schedule an appointment with Evonne to have your students fill out evaluations. This begins on May 23 and ends June 3.

WELCOME.....to Nicolas Currier, senior at St. Paul Academy, who is undertaking an internship in the department prior to graduation. Nicolas will be majoring in biology at Carlton or Brandeis. Submitted by D. Davis.

CONGRATULATIONS....Jim Luby has been promoted to full professorship and promotion to associate professor/tenure to Alan Smith. All effective July 1, 1994.

FUMEHOOD/EXHAUST FAN SERVICING....5-19 thru 5-25, building 394 will be shut down for about 15 minutes for servicing. If a problem notify Norma Velde at 4-2288.

GARDEN PLOT FEES.....are due by May 25 to either Greg Gingera or Rebecca Brown.

COA DEAN'S LIST REPORT....for winter quarter 1994. The undergraduate students have taken 12 credits or more and received a GPA of 3.7 or higher. Please join us in commending them for their outstanding achievement.

Carla Anderson (Strefeler), Melanie Cervin (Swanson), Dean Engelmann (Swanson), Peter Felland (Pedersen), Lance Himmelwright (Swanson), Franklyn Hoffman (Pedersen), Mary Houge (Swanson), Marguerite Jaster (Swanson), Heather Kreidermacher (Strefeler), Flora Mercil (Swanson), Brian Netzt (White), Faye Propsom (Swanson), Laurie Robinson-Hipple (Swanson).

VISA LOTTERY.....foreign students and post-docs who would like to stay in the U.S. permanently, there is a visa lottery from June 1 to June 30. If you are a native of certain countries you can win an immigrant visa. For more information contact Kerstin Concibido (266 AlderH).

ANNUAL TRAVEL AWARDS, 1993-94 . . . Mary Haga Award to defray some costs of female graduate students for travel to national or other major scientific meetings where they are presenting the results of their research. Applications due June 15....Posted by grad mailboxes.

BE A PART U of M HISTORY.....please join friends, alumni, and faculty of the CBS at a ceremony and celebration to open the botany building time capsule (sealed May 27, 1926) and the sealing of the ecology, evolution and behavior/botany time capsule, May 27 at noon, first floor, Ecology Building (speakers, exhibits, music, surprise guests).

WARNING LABELS THAT ARE P.C. (physically correct)....

WARNING: this product attracts every other piece of matter in the Universe, including the products of other manufacturers, with a force proportional to the product of the massed and inversely proportional to the distance between them.

Have a good week!

twig bender

Volume 12 - #19 - May 27, 1994
Editor: Evonne Kuyper kuype001@maroon.tc.umn.edu

Department of Horticultural Science
305 AlderH., St. Paul, MN 55108

May/June, 1994						
S	M	T	W	T	F	S
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MON- Memorial Day
Holiday. Classes
excused and
University offices
closed.



TUE- PBS Thesis Defense
Seminar, Effects of acidification on
leaf litter decay and utilization in a
whole-ecosystem experiment, Brian C.
L. Shelley, PhD candidate, PBS, 1
p.m., 495 Hodson.

FCC, 2 p.m., 398 AlderH.

WED- Growth Chamber Discussion, 3:30
p.m., 415 AlderH. See memo/survey
of May 24 from Wes Hackett to
prepare for discussion.

THR- Public Relations Committee, 9 a.m.,
394 AlderH.

GSC, 8:30 a.m., 398 AlderH.

Hort 8066, Approaches to
Understanding Competence for
Adventitious Root Initiation, Dr.
Wesley P. Hackett, 4:05 p.m., 394
AlderH.

FRI- Last day of Spring Quarter instruction.



REMINDER....do NOT send
foreign reprints in first class
envelopes. Rather use the
plain ones and office staff
will mark them printed
matter if you designate as
such.

PICNIC TABLE FUND DRIVE....has
accumulated \$17.00. Members of Hort Club
have volunteered to construct it. Please see
Kath Lloyd to pledge. Deadline is June 10.

MESSY KITCHEN....room 369 is a pig sty.
Persons who leave dirty dish are asked to clean
it up. It is inconsiderate to others when you
leave dirty dishes. This room must be kept
clean or risks being closed/locked to persons
who wish to cook and gather there.

BABY BOY....to Jerry, Janet
& big brother Andrew
Pierson. They named him
Zachary John, weighing in
at 7 lb 2 oz and 20" tall.
Zachary was born on May
23. Best Wishes!



MISSING.....plants from the cold frames taken
without permission from project leaders.
These plants are for use in the
research/learning garden and cannot be taken
for your personal gardens. Check with project
leader regarding any plant materials.

SOTA TEC....is a technology research fund
sponsored by the Blandin Foundation whose
mission is to strengthen rural Minnesota
communities. The Fund selects research
projects to be funded and provides flexible
support from the times begin until their results
are used to create jobs with rural Minnesota
enterprises. Interested persons can check the
"Reading File" located in the faculty mailbox
area for details.

CALLPoints....has had a contract with the
University for several years and has a wide
variety of specialty services to offer. You may
have recently found their roll-o-dex card in
your mailbox. See Laura Kalisch for more
details.



June, 1994						
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19	20	21	22	23	24	25
26	27	28	29	30		

SUN- COA Commencement Ceremonies, 3 p.m., Northrup.

Channel 6 MCN, 9 am & 9 pm,
Beekeeping: The benefits of bees and what is involved in keeping a hive.

FINAL EXAM WEEK

MON- Biological Forum, Do Animals Avoid Inbreeding?, Anne Pusey, Dept of Ecology, Evolution & Behavior, 7-7:30 pm social, 7:30-9:00 pm program, 306 Borlaug Hall.

WED- COA Faculty Assembly Meeting, 1-3 p.m., SPSC Theatre. Reception at 12:30.

THR- Hort Faculty Meeting, 10 a.m., 394 AlderH.

Hort 8066, Research Proposal, Expression of rol C in *Petunia hybrida*, Christi Holeman, 4:05 p.m., 394 AlderH.

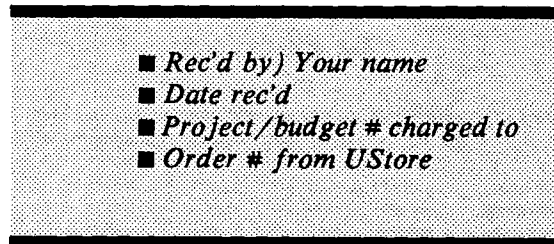
"You can't turn back the clock. But you can wind it up again". Bonnie Prudden

KEYS.....Kath Lloyd has taken on disbursement of Alderman Hall keys. Please help spread the word to everyone. EK

SUMMER SESSION I - June 14-July 19
SUMMER SESSION II- July 21-August 24

TRAVEL TRAINING FELLOWSHIPS....GSC has sufficient funds to cover one or two more experiences. See memo from Jim Luby regarding specifics. Deadline June 10.

ACCOUNTING UPDATE.....U Stores will be barcoding all cylinders beginning June 16 before shipping to departments. In August U stores will do a University-wide inventory to barcode all cylinders, therefore, if you have any old cylinders sitting around, please return them ASAP. By returning old cylinders now, you're saving rent expenses and the hassle of August' inventory. Starting June 1 all packing slips/invoice slips from U Stores, Midwest or Fisher Scientific must have the following information on them before turning into accounting office:



If you have any questions, stop and see Esther or Angie in the Accounting Office.

AABGA 1994 MIDWEST REGIONAL MEETING.....July 27-30, Indianapolis, Indiana. Posted in main lobby.

!HAVE A GOOD SUMMER!

June, 1994						
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26	27	28	29	30		

TUE- Spring Quarter grades are due by noon.

WED- Winter Quarter 1995 course offering turnaround documents returned to Scheduling.

THR- Spring Festival, U of M/AFSCME St. Paul Campus Community invites everyone for food, speakers, music, puppets, 11:00 a.m. to 1:30 p.m., SPSC North Star Courtyard. Sponsored by AFSCME Clericals, Technicals & Professionals.

Hort 8066, Research Proposal: Development of sweet corn with resistance to European corn borer, Daniel Warnock, 4:05 p.m., 394 AlderH.

FRI- 3rd Friday Happy Hour, 4 pm, Lobby.

CONGRATULATIONS.....**Doug Foulk** has received the Graduate School Dissertation Fellowship for 1994-95. He was one of 50 selected out of 174 nominations. It is not only an honor for you but for our program.

GRANDPA & GRANDMA AGAIN....The Widmer's welcome a new grandson born June 3. Andrew Harrington, weighed 8 lbs 1 oz and was 22 inches.

CEE SUMMER SESSION I classes begin Monday, June 13.

RETIREMENT PARTY...for Reynold P. (Reese) Dahl on June 24, 2:30-4:40 p.m. at the Earle Brown Center. Reese Dahl will be retiring from the Department of Agricultural and Applied Economics on July 1, 1994.

STROKE COUNT....Big Ole is quite a golfer. He loves the game, but one day he was really having trouble. Finally his golf ball landed in a sand trap. "Uff-Da!" he exclaimed, as he hacked away at the ball. "It's a darn good ting dat da hill is hiding me from da udder fellas." Finally he extricated himself from the hidden bunker and rejoined his friends. "How many strokes, Ole," asked Lars. "Tree strokes," replied Ole. "But ve heard six," said Lars. "Yust tree," insisted Ole. "Da udder tree must have been echoes."

E-MAIL.....information sessions will continue for faculty, staff & students during the summer on Wednesday afternoons. Appointments will be taken beginning on June 15. If Wednesday's do not work for you, c o n t a c t P h i l S c h w a b (schwa015@maroon.tc.umn.edu) to work out another time.

twig bender

Volume 12 - #22 - June 17, 1994
Editor: Evonne Kuyper kuype001@maroon.tc.umn.edu

Department of Horticultural Science
305 AlderH., St. Paul, MN 55108

June, 1994						
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26	27	28	29	30		

SUN- Channel 6 MCN, 9 am & 9 pm, Garden Photography: How to take professional photos of your garden.

CONGRATULATIONS.....to Tami M. Van Gaal. Tami was selected by the Graduate Studies Committee to receive the **Outstanding New Graduate Student Award**. Tami has completed her three rotations as part of the Open Research Assistantship program with D. White, J. Erwin and H. Pellett. Her research integrates floriculture and genetics (Strefeler) and landscape ecology (Galatowitsch). Through this cooperative research, she has contributed greatly to the cohesiveness of the department. Her two teaching experiences include being a science mentor to junior high school students and being a teaching assistant for Hort 1022 for Anne Hanchek. Best of success with your future activities and research.

LOST KEYS.....belonging to the turf group. A large number of keys on a key ring. If found, please return to room 455. Alex Ellram.



Accounting Office reminds all to be sure all Beckwith orders have a description on them before sending them out. Please check the price as there has been some discrepancies in billing lately. Esther Thorpe.

SEEKING.....eight undergraduate or graduate students to serve as **Tour Guides** in the Horticulture Building at the State Fair. Apply at Student Employment Center, 120 Fraser Hall, Job #C4 75621.

Greenhouse News Roger Meissner

VEHICLE CHECKOUT....please remember to fill out the vehicle mileage sheet found in each vehicle after each use. All mileage must be accounted for. Following is the list of vehicles for use by department staff:

3471 Full size blue station wagon
3546 blue 5 passenger cargo van
3706 silver 3/4 ton pickup with liftgate and 4-wheel drive
3721 one tone blue 4-wheel drive truck with dump

Besides the mileage sheet, you will find an accident report form, service and gas info form, and small first aid kit. The keys and checkout calendar for these vehicles are located in the greenhouse office

NEW CREDIT CARDS...for gasoline can now be picked up at the St. Paul Maintenance Shop. All projects which own their own vehicles should turn in their old credit card (which expired 6/94) and pick up their new one. Any questions, contact me.

GREENHOUSE REGLAZING.....will take place this summer. This involves removal of the glass and replacing with Exolite (double skinned acrylic) which should save about 40% on our heating bill and cut maintenance cost about 90%. The original builders of our greenhouse complex, Albert Lauer, Inc., will do the work. The N.W. Gibbs greenhouse complex glass roof will be replaced with double poly at this time also. If you have any questions, again, please contact me.

SUMMER VACATION....I will be absent the following days: June 23, 24, 27, 30, July 1, 5, 6, 7, 8, August 8, 15, Greenhouse Meetings in New Jersey, July 20-22.

Date: Fri, 15 Jul 94 11:05:27 CST

From: "" <kuype001@maroon.tc.umn.edu>

To: m-asce@staff.tc.umn.edu, FBusta@staff.tc.umn.edu,
hcheng@soils.umn.edu, Crook002@staff.tc.umn.edu,
fist001@staff.tc.umn.edu, ggardner@staff.tc.umn.edu,
geodr001@staff.tc.umn.edu, j-houc@staff.tc.umn.edu,
Phill@puccini.crl.umn.edu, rvmorey@gaia.ageng.umn.edu,
perso001@staff.tc.umn.edu, Irwin@molbio.cbs.umn.edu,
bwhalstr@maroon.tc.umn.edu, lhayes@staff.tc.umn.edu,
rjones013@maroon.tc.umn.edu, marti053@staff.tc.umn.edu,
gmiller@staff.tc.umn.edu, dimen001@staff.tc.umn.edu,
asche001@maroon.tc.umn.edu, brenner@mailbox.mail.umn.edu,
brown015@maroon.tc.umn.edu, carte004@maroon.tc.umn.edu,
davis007@maroon.tc.umn.edu, erwin001@maroon.tc.umn.edu,
ggardner@maroon.tc.umn.edu, hacke003@maroon.tc.umn.edu,
hanch001@maroon.tc.umn.edu, hoove001@maroon.tc.umn.edu,
lauer002@maroon.tc.umn.edu, lixxx008@maroon.tc.umn.edu,
lubyx001@maroon.tc.umn.edu, amarkhar@maroon.tc.umn.edu,
meyer023@maroon.tc.umn.edu, olin002@maroon.tc.umn.edu,
peder006@maroon.tc.umn.edu, pelle002@maroon.tc.umn.edu,
rosen006@maroon.tc.umn.edu, alan@molbio.cbs.umn.edu,
estadelm@maroon.tc.umn.edu, stref001@maroon.tc.umn.edu,
swans040@maroon.tc.umn.edu, c-tong@maroon.tc.umn.edu,
white007@maroon.tc.umn.edu, vafritz@maroon.tc.umn.edu,
zinsx002@maroon.tc.umn.edu, brudv001@maroon.tc.umn.edu,
johns388@maroon.tc.umn.edu, lkalisch@maroon.tc.umn.edu,
a-klid@maroon.tc.umn.edu, lloyd002@maroon.tc.umn.edu,
m-piec@maroon.tc.umn.edu, thorp004@maroon.tc.umn.edu,
j-day@maroon.tc.umn.edu, granx001@maroon.tc.umn.edu,
hanso207@gold.tc.umn.edu, larso070@maroon.tc.umn.edu,
me008@maroon.tc.umn.edu, meiss003@maroon.tc.umn.edu,
olson024@maroon.tc.umn.edu, piers004@maroon.tc.umn.edu,
plank001@maroon.tc.umn.edu, schwa027@maroon.tc.umn.edu,
wenke001@maroon.tc.umn.edu

Subject: Horticulture TWIG BENDER Volume 12, #23
X-POPmail-Charset: English

BIRTH ANNOUNCEMENTS....Don White's welcomed a new grandson, Aaron Michael, 8 lbs 5 oz, 21", born June 21 to Nora and Tim White. Shirley Munson welcomes a new granddaughter on June 3, 6 lbs 14 oz Kiera Ruth. Chad Fin & Barb Fick a baby boy on July 4, named Ian, 8 lbs 8 oz, 22".
Congratulation!

NEW DEPARTMENT HEAD....in Plant Pathology is Professor Neil Anderson.

WACKER BACKER.....The University of Minnesota Men's Athletic Department is offering discounted tickets to all of the Big Ten home games. Their goal is to unite the University staff, faculty, and students by getting at least one group from each department to a game. Friends and family are welcome. Call Teresa Dusbabek at 624-7028. Thanks for your support of Golden Gopher Football

MARKETING COORDINATOR POSITION....MN State Horticultural Society is seeking applications for a marketing coordinator. This is full-time with benefits through the State of Minnesota. Submit resume with cover letter by August 12 to MSHS, 1755 Prior Avenue North, Falcon Heights, MN 55113 or call 645-7066.

JOINING HANDS....Minnesota State Horticultural Society, Minnesota Landscape Arboretum, and Otten Bros. Nursery & Landscaping invite gardeners

From all around the state to attend the 1994 Annual Educational Conference on July 29-31. Reserve space by July 22 by calling 645-7066.

NORTHWEST AIRLINES REDUCED FARES....Tickets at a 10% discount for people 62 and over.

FALL 94 CAMPUS-WIDE TEACHING ASSISTANT ORIENTATION AND WORKSHOPS.....held September 15 through September 20.

MINNESOTA LANDSCAPE ARBORETUM NEWS.....

UPCOMING EVENTS

August 2, 7-8 - University of Minnesota Band
August 6&7, 12noon to 3 pm - 15th Annual Children's Harvest Fair.
August 7, 1-4 pm - Midsummer China Festival
August 13, 8:30-3 pm - Minnesota Prairie Day
August 16, 5-8 pm - Membership Ice Cream Social
August 25,26 & 27 - Tenth Annual Herb Symposium

CLASSES

August 2, 10-12 noon - Decorating a Straw Hat with Flowers and Herbs
August 6, 10-12 noon - Hostas for the Garden
August 11, 10-12 noon - Working with Grapevine in Crafts
August 16 & 23, 10-12 noon - Creating Floral Centerpieces
August 18, 6-8 pm - Landscaping your Entryway

Grounds Open 8am to sunset daily. Gate fees: non-members \$4 adults 16 and older; \$1 children 6-15; children 5 and under free. Members admitted free. Memberships available at gatehouse and lobby desk or call 443-2460. Over and out.....

HAVE A GOOD WEEKEND FROM HORTICULTURAL SCIENCE

Date: Fri, 22 Jul 94 10:42:11 CST

From: "" <kuype001@maroon.tc.umn.edu>

To: cherring@mes.umn.edu, ander048@maroon.tc.umn.edu,
m-asce@staff.tc.umn.edu, FBusta@staff.tc.umn.edu,
eng@soils.umn.edu, Crook002@staff.tc.umn.edu,
ehst001@staff.tc.umn.edu, goodr001@staff.tc.umn.edu,
j-houc@staff.tc.umn.edu, rvmorey@gaia.ageng.umn.edu,
perso001@staff.tc.umn.edu, Irwin@molbio.cbs.umn.edu,
bwahlstr@maroon.tc.umn.edu, lhayes@staff.tc.umn.edu,
rjones0mailbox.mail.umn.edu, marti053@staff.tc.umn.edu,
gmiller@staff.tc.umn.edu, dimen001@staff.tc.umn.edu,
ylini001@maroon.tc.umn.edu, brudv001@maroon.tc.umn.edu,
johns388@maroon.tc.umn.edu, lkalisch@maroon.tc.umn.edu,
a-klid@maroon.tc.umn.edu, lloyd002@maroon.tc.umn.edu,
m-piec@maroon.tc.umn.edu, thorp004@maroon.tc.umn.edu,
ander044@maroon.tc.umn.edu, wiegr001@maroon.tc.umn.edu,
zimme009@maroon.tc.umn.edu, velgu001@maroon.tc.umn.edu,
murra004@maroon.tc.umn.edu, sheng002@maroon.tc.umn.edu,
asche001@maroon.tc.umn.edu, brenner@mailbox.mail.umn.edu,
brown015@maroon.tc.umn.edu, carte004@maroon.tc.umn.edu,
davis007@maroon.tc.umn.edu, erwin001@maroon.tc.umn.edu,
ggardner@maroon.tc.umn.edu, hacke003@maroon.tc.umn.edu,
hanch001@maroon.tc.umn.edu, hoove001@maroon.tc.umn.edu,
lauer002@maroon.tc.umn.edu, lixxx008@maroon.tc.umn.edu,
lubyx001@maroon.tc.umn.edu, amarkhar@maroon.tc.umn.edu,
meyer023@maroon.tc.umn.edu, olinx002@maroon.tc.umn.edu,
peder006@maroon.tc.umn.edu, pelle002@maroon.tc.umn.edu,
rosen006@maroon.tc.umn.edu, alan@molbio.cbs.umn.edu,
estadelm@maroon.tc.umn.edu, stref001@maroon.tc.umn.edu,
swans040@maroon.tc.umn.edu, c-tong@maroon.tc.umn.edu,
te007@maroon.tc.umn.edu, vafritz@maroon.tc.umn.edu,
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granx001@maroon.tc.umn.edu, hanso053@maroon.tc.umn.edu,
larso070@maroon.tc.umn.edu, macke008@maroon.tc.umn.edu,
meiss003@maroon.tc.umn.edu, olson024@maroon.tc.umn.edu,
piers004@maroon.tc.umn.edu, plank001@maroon.tc.umn.edu,
schwa027@maroon.tc.umn.edu, wenke001@maroon.tc.umn.edu

Subject: TWIG BENDER, VOLUME 12, #24, Dept of Horticultural Science

X-POPMail-Charset: English

DEAN'S LIST.....for Spring Quarter, 1994. Seven students from the Animal & Plant Systems major with a hort emphasis have taken 12 or more credits and received a GPA of 3.7 or higher. Please commend our students for their outstanding achievement: Carla Anderson, Allan Brown, Melanie Cervin, Lori Czynscon, Marguerite Jaster, David Lewis.

HORT TOUR....at NCES in Grand Rapids is set for August 31.

EDUCATIONAL FIELD DAY..... is August 11 at Staples.

OPEN FORUM.....to discuss reorganization of central administration, called by Vice President Gene Allen, for faculty, staff, students and friends of the Institute of Agriculture, Forestry and Home Economics, Wednesday, July 27, 3:30-5:00, 335 Borlaug Hall.

INFANTE.....announces the appointment of Dr. Mark Brenner as Acting Vice President for Research and Acting Dean of the Graduate School effective July 16, 1994. Congratulations!!

MINNESOTA GARDENING SHOWS on Channel 6 MCN, July 24, 9 am & 9 pm, Lilies:

Date: Fri, 5 Aug 94 10:39:47 CST
From: "" <kuype001@maroon.tc.umn.edu>

Subject: TWIG BENDER, Volume 12, #25, Dept. of Horticultural Science
X-OPMail-Charset: English

----- Forwarded message begins here -----

From: kuype001@maroon.tc.umn.edu <kuype001@maroon.tc.umn.edu>
Fri, 5 Aug 94 10:23:19 CST

Subject: TWIG BENDER, Volume 12, #25, Dept. of Horticultural Science

MINNESOTA GARDENING SHOWS, August 7 - 9am & 9 pm, Channel 6 MCN, Using
Flowers From Your Garden: Arranging and using cut flowers.

SYMPATHY....is offered to Dr. Paul Li for the death of his father.

CONGRATULATIONS....to Anne Hanchek on the publication of Minnesota
Gardening 1994 Calendar. It was selected to receive an Extension
Educational Aids by the American Society for Horticultural Society. She
will be recognized at the Annual ASHS meetings at Oregon State University.

OSLO-CSL - Office of Special Learning Opportunities - Community Service
Learning Programs is conducting a statewide Faculty Institute on Community
Service-Learning on September 30, 9-4 pm, Augsburg College, 2211 Roversode
Avenue, Minneapolis, MN. FMI call Mary True, Augsburg, 612-330-1775.

BOYNTON HEALTH SERVICE...has a small clinic, open during fakk, winter, and
sng quarters, in Coffey Hall. New hours will be M-F, 1-5 pm.

NEW MEMBERS NEEDED FOR GRADUATE SCHOOL RESEARCH AND FELLOWSHIP
COMMITTEES....hort faculty interested should contact either Gary M.
Gardner (4-3606) or James J. Luby (4-3453). Committees include the
General Research and Health Sciences Research Advisory Committee, the
Faculty Summer Research Committee, the McKnight Land-Grant Professorship
Committee, and the Graduate School Fellowship Committee. There are many ad
hoc committees formed during the year for various purposes. Please
volunteer yourself. Let Gary or Jim know of your interest by September 15.

CALL FOR PROPOSALS: Ohio Floriculture Foundation Research Grants announce
the availability of research funds and requests submission of proposals
which address the critical areas of study: marketing, plant breeding, pest
and disease control, physiology, greenhouse structure, retail marketing.
Proposals must be postmarked no later than September 4, 1994 to be
considered for funding during 1995. See Laura Kalisch (4-3039) for
details.

MINNESOTA LANDSCAPE ARBORETUM.....classes/workshops for August, 1994

Workshops:

Minnesota Prairie Day, August 13, 8:30-3:00.
Membership Ice Cream Social, August 16, 5:00-8:00.
Tenth Annual Herb Symposium, August 25,26,27.

Classes:

Working with Grapevine in Crafts, August 11, 10-12 noon.
Creating Floral Centerpieces, August 16 & 23, 10-12 noon.
Landscaping Your Entryway, August 18, 6-8 pm.
Later Summer Watercolor Workshop, September 1 & 8, 9:30 am - 12:30 pm.

Call 612-443-2460, ext. 106 for more information and prices.

HAVE A GOOD WEEKEND FROM HORTICULTURAL SCIENCE

ellra001@maroon.tc.umn.edu,
granx001@maroon.tc.umn.edu,
hanso053@maroon.tc.umn.edu,
larso070@maroon.tc.umn.edu,
macke009@maroon.tc.umn.edu,
meiss003@maroon.tc.umn.edu,
newma011@maroon.tc.umn.edu,
olson024@maroon.tc.umn.edu,
piers004@maroon.tc.umn.edu,
plank001@maroon.tc.umn.edu,
schwa027@maroon.tc.umn.edu,
wenke001@maroon.tc.umn.edu,
cherrig@mes.umn.edu

Subject: TWIG BENDER, Vo. 12, #26, Dept. of Horticultural Science

CONGRATULATIONS.....to Dick and Murial Widmer on the July 8 birth of their new granddaughter, Rachel Elizabeth Dekanik. She weighed 7 lbs. 9ozs., 20 1/2 inches long.

SOCIAL SECURITY INFO....Due to the large volume of foreign nationals without social security numbers who have accepted University of Minnesota employment beginning fall quarter, a representative from the Social Security Administration Office will be available on September 19 to process social security applications directly from the Payroll Department. This will eliminate a trip to the Social Security office for an in-person interview. LOCATION: U of M Payroll Department, 1300 So. 2nd Street, Suite 545, Mpls. TIME: 9:00 AM - 11:30 AM and 1:00 PM - 3:30 PM., Monday, September 19.

TONER CARTRIDGES...Please put your name, dept., address, phone no., cuffs no. and account no. on your used toner cartridge when returning it to Stores so that you may be credited the \$15.00 deposit. Indicate that the toner is used and save the packing material making sure the cartridge is packaged so that it is not bouncing around in the box. Thanks, Martha.

RESEARCHERS AND ALL USERS OF ROOM 201 ALDERMAN...As soon as all the paperwork settles, we will start to receive shipment of our new growth chamber units. Although this will be several months from now, it is none to early to start the process of cleaning out and organizing this much used commons work area. In the past couple of years, with retirements, lab area reorganizations and equipment failures where no funding for repair had been procured, room 201 has become a junkyard for discarded equipment and material. This has seriously cut into the safe, usable workspace available. In response to this creeping accumulation, September is being declared Room 201 Cleansing Month. To kick off this festival of building lightening, the Phantom Technician will identify, by brightly colored 1/4 sheet tags marked remove, any dead equipment that is scheduled to become feedstock for the scrap metal furnaces at Northstar Steel. If you have objection to any specific designation be sure to notify the P.T. before the end of September, when all such items will be wrestled from their space. Any small items will be placed in the hall just outside room 201 for their owners to claim...NOT TO RETURN TO 201! Any unclaimed items are to be put up for departmental salvage experts. More details of this part of the cleanup will be forthcoming when the work occurs. Please check 201 prior to the cleanup for any stray equipment you or your's may have forgotten there. With the new equipment and a thorough cleanout, we should be left with a facility that will be a joy to use. The first item on the skids; a 6' ice cream freezer, must be purchased and moved to your lab area. Needed to move above beast--4 bodies; 2 Johnson bars and 2 dollies.

TONER CARTRIDGES...Please put your name, dept., address, phone no., cuffs and account no. on your used toner cartridge when returning it to Stores so that you may be credited the \$15.00 deposit. Indicate that the toner is used and save the packing material making sure the cartridge is packaged so that it is not bouncing around in the box. Thanks, Martha.

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GREENHOUSE REGLAZING UPDATE -- Roger Meissner

Two down and three to go. Sections E & F have been reglazed with Exolite and the G Section should be finished on Tuesday 8/16. Section H is in the process of being stripped of its glass and the K-Section stripping will start 8/18. Completion date for all 5 sections is September 15. If you have any questions regarding this reglazing project contact Rog.

Correction to the space assignments handout you received last week. Fall quarter 16 benches N.W. Gibbs should have read DWD and not DBW. If you did not receive a greenhouse space assignment handout and would like one contact Roger.

Received: from [128.101.131.10] by maroon0.tc.umn.edu id SMTP-0012e4ba9c6a03872;
Message-Id: <7782e4ba921a09186@gold0.tc.umn.edu>
Received: by gold0.tc.umn.edu; Fri, 12 Aug 94 11:53:53 -0500
Date: Fri, 12 Aug 94 11:53:53 -0500
From: MAILER-DAEMON@gold0.tc.umn.edu
To: m-piec@maroon.tc.umn.edu
cc: Postmaster@gold0.tc.umn.edu
Subject: Undeliverable mail

Date: Fri, 19 Aug 94 11:47:38 CST

From: "" <kuype001@maroon.tc.umn.edu>

To: cherring@mes.umn.edu, ander048@maroon.tc.umn.edu,
asce@staff.tc.umn.edu, FBusta@staff.tc.umn.edu,
ageng@soils.umn.edu, Crook002@staff.tc.umn.edu,
fenst001@staff.tc.umn.edu, goodr001@staff.tc.umn.edu,
j-houc@staff.tc.umn.edu, rvmorey@gaia.ageng.umn.edu,
perso001@staff.tc.umn.edu, Irwin@molbio.cbs.umn.edu,
bwahlstr@maroon.tc.umn.edu, lhayes@staff.tc.umn.edu,
rjones@mailbox.mail.umn.edu, marti053@staff.tc.umn.edu,
gmiller@staff.tc.umn.edu, dimen001@staff.tc.umn.edu,
ylini001@maroon.tc.umn.edu, brudv001@maroon.tc.umn.edu,
johns388@maroon.tc.umn.edu, lkalisch@maroon.tc.umn.edu,
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m-piec@maroon.tc.umn.edu, thorp004@maroon.tc.umn.edu,
ander044@maroon.tc.umn.edu, wiegr001@maroon.tc.umn.edu,
zimme009@maroon.tc.umn.edu, velgu001@maroon.tc.umn.edu,
murra004@maroon.tc.umn.edu, sheng002@maroon.tc.umn.edu,
asche001@maroon.tc.umn.edu, brenner@mailbox.mail.umn.edu,
brown015@maroon.tc.umn.edu, carte004@maroon.tc.umn.edu,
davis007@maroon.tc.umn.edu, erwin001@maroon.tc.umn.edu,
ggardner@maroon.tc.umn.edu, hacke003@maroon.tc.umn.edu,
hanch001@maroon.tc.umn.edu, hoove001@maroon.tc.umn.edu,
lauer002@maroon.tc.umn.edu, lixxx008@maroon.tc.umn.edu,
lubyx001@maroon.tc.umn.edu, amarkhar@maroon.tc.umn.edu,
meyer023@maroon.tc.umn.edu, olinx002@maroon.tc.umn.edu,
peder006@maroon.tc.umn.edu, pelle002@maroon.tc.umn.edu,
rosen006@maroon.tc.umn.edu, alan@molbio.cbs.umn.edu,
estadelm@maroon.tc.umn.edu, stref001@maroon.tc.umn.edu,
ans040@maroon.tc.umn.edu, c-tong@maroon.tc.umn.edu,
white007@maroon.tc.umn.edu, vafritz@maroon.tc.umn.edu,
zinsx002@maroon.tc.umn.edu, j-day@maroon.tc.umn.edu,
granx001@maroon.tc.umn.edu, hanso053@maroon.tc.umn.edu,
larso070@maroon.tc.umn.edu, macke008@maroon.tc.umn.edu,
meiss003@maroon.tc.umn.edu, olson024@maroon.tc.umn.edu,
piers004@maroon.tc.umn.edu, plank001@maroon.tc.umn.edu,
schwa027@maroon.tc.umn.edu, wenke001@maroon.tc.umn.edu
Subject: TWIG BENDER, Vol 12, #27, Dept. of Horticultural Science
X-POPmail-Charset: English

MINNESOTA GARDENING SHOWS.....August 21, 9 am & 9 pm, Channel 6 MCN, "Herb Gardening: Tips and tricks on growing herbs in Minnesota".

AVAILABILITY OF COMPUTER RESOURCES-Labor Day Weekend (9/3/94-9/5-94). All AIS computer resources (LUMINA, CIFS, PROFS, STUDENT SYSTEMS) will be unavailable from 6 pm Sept 3 until 6 pm Sept 5. Any questions, call 624-1076.

ACCESS TO ST. PAUL CAMPUS DURING MN STATE FAIR.....Folwell & Cleveland will be your only access to campus during OFF hours. This gate will be attended by an individual authorized to allow access only to those showing a valid U of M ID. Buford Ave, in front of the SPSC, will serve as the exit from campus. U of M Police will lock other entrance gates at 6 pm and open them at 6 am each normal work day.

FOR REPORTS TO DISPLAY AT THE 1994 ANNUAL PRODUCE MARKETING ASSOCIATION (PMA) CONVENTION AND EXPOSITION. PMA is providing the U.S. Dept. of Ag Economic Research Service space for an exhibit at its annual convention, October 23-25, 1994, San Antonio, Texas. The purpose is to display current research reports to familiarize those engaged in the fruit,

Date: Fri, 2 Sep 94 13:31:50 CST
From: "" <kuype001@maroon.tc.umn.edu>
To: Date: Fri, 2 Sep 94 11:04:09 CST
From: "" <kuype001@maroon.tc.umn.edu>

cherring@mes.umn.edu, ander048@maroon.tc.umn.edu,
m-asce@staff.tc.umn.edu, FBusta@staff.tc.umn.edu,
hcheng@soils.umn.edu, Crook002@staff.tc.umn.edu,
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j-houc@staff.tc.umn.edu, rvmorey@gaia.ageng.umn.edu,
perso001@staff.tc.umn.edu, Irwin@molbio.cbs.umn.edu,
bwahlstr@maroon.tc.umn.edu, lhayes@staff.tc.umn.edu,
rjones@mailbox.mail.umn.edu, marti053@staff.tc.umn.edu,
gmiller@staff.tc.umn.edu, dimen001@staff.tc.umn.edu,
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piers004@maroon.tc.umn.edu, plank001@maroon.tc.umn.edu,
schwa027@maroon.tc.umn.edu, wenke001@maroon.tc.umn.edu
Subject: Subject: TWIG BENDER, Vol. 12, #28, Dept. of Horticultural Science
X-POPmail-Charset: English
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TWIG BENDER, Vol 12, #28, Dept. of Horticultural Science
X-POPmail-Charset: English

INTERNAL SECURITY....custodial services has indicated that internal security is the responsibility of each department. This means that when you leave your office or lab in the evening, make sure they are locked. If a custodian needs to open the doors to enter an office or lab, they will close it; however, if it isn't locked before they enter and they forget to close it upon leaving, the responsibility returns to us. Please be sure that all doors and windows are secured before you leave each evening and if you come in on the weekend, make sure all outside doors remain locked AT ALL TIMES. Thanks for your cooperation with this important issue.....Laura K. Kisch, Horticulture Administrator.

MINNESOTA GARDENING....September 4 - 9 am & 9 pm, Channel 6 MCN TV, Growing Peppers in Minnesota: A look at the range of color, size & types of peppers you can grow in Minnesota.

MINNESOTA LANDSCAPE ARBORETUM.....September 17 & 18 - Arb Flower & Garden Show. Open to the public to enter or just to enjoy colorful displays of beautiful flowers and tasty vegetables grown by amateur gardeners. Call 4-2460 for entry guidelines or for more information.

September 24, 10-3 - Fall Festival....annual fall extravaganza of color and activities for the entire family. Sales and demonstrations of crafts and food items, fall bulbs and gardening supplies. Entertainment and children's activities. Arboretum Auxillary sale of one-of-a-kind dried flower arrangements and decorations.

September 30, October 1 & 2 - Andersen Horticultural Library Book Sale.....annual sale to benefit the Arboretum's library.

HORTICULTURE DEPARTMENT PICNIC....faculty, staff, students (including families and guests) are welcome to attend on Saturday, September 10 from 11-3 at Roseville Central Park JC Shelter (located off Lexington, south of C). Bring meat to grill (coals ready at noon), table serving, salad, side dish, or dessert to pass. Beverages (juice, lemonade) provided, volleyball courts nearby. Questions? Contact Emily Hoover 4-6220 or Sue Galatowitsch 4-3242.

REMINDERS FROM ACCOUNTANT IN HORT SCI...#1 All PO's and packing slips are to be put in my mailbox or turned into me immediately after ordering or receiving your order. #2 You can now order equipment w/o leaving your office! The bookstore has a new hotline # to call your IV/PO in and then fax a copy to them. Refer to letter on bulletin board across from mailboxes. #3 If you are ordering from Fisher Scientific, please list on a page of paper catalog #, your name & budget to charge and turn into me. I will order it "online" which is alot faster & less paperwork for all involved. Thanks for your cooperation....Esther Thorp

GRANTS-IN-AID of Research, Artistry and Scholarship for 1994-95 is now available to apply for! All proposals must be submitted to Graduate School by October 3.

THE HERB SOCIETY OF AMERICA, INC. announces research & education grants. The purpose is to further the knowledge and use of herbs and contribute the results of the study and research to the records of horticulture, science, literature, history, art, and/or economics. Persons with a proposed program of scientific, academic, or artistic investigation of herbal plants are encouraged to apply. See Evonne Kuyper for eligibility, restrictions and procedure. Deadline is January 31.

DISABILITY SERVICES....on St. Paul Campus is provided by the University of Minnesota to promote program and physical access for students, staff, and faculty with hidden and visible disabilities. They offer a wide range of services, free of charge, to all members of the University community: -disability documentation, -information & referral, -reasonable accommodation assessment, -academic/work assistance, -sign language interpreting, -test accommodations, -document conversion, -career development, -training & consultation, -support and advocacy. Call 626-1333 to arrange an appointment.

UNIVERSITY HOLIDAY - September 5.

Thank goodness the State Fair is almost to an end and this campus can get back to normal. Have a safe holiday weekend from Horticultural Science.

TWIG BENDER

Volume 12, #29, 9-16-94, Editor: E.Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

From the Editor: If you are missing a few issues of the Twig over the summer, check your e-mail. You should get familiar with your e-mail as lots of department memos and information will continue to be sent over the wires during the upcoming school year. Contact Bud Markhart for assistance.

DEPARTMENT CALENDAR/NEWS FOR SEPTEMBER 18-24, 1994

September, 1994						
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>
25	26	27	28	29	30	

SUN - Minnesota Gardening, Channel 6 MCN, 9 am & 9 pm, Ornamental Grasses: New decorative plants that are hardy in Minnesota.

WED - 12:00 noon - orientation for incoming

graduate students in 394 Alderman Hall. Lunch provided - please RSVP to Evonne.

WED - 3:30 p.m. - Reception for incoming graduate students and new faculty, postdocs, visitors. Everyone is welcome and should meet in Alderman Hall foyer. Former graduate students are asked to help bring desserts. *See Robert Quene to help on the clean-up committee.*

THR - Fall Quarter classes begin
Faculty Consultative Committee, 2:30 p.m., 398 AlderH.

FRI - Get acquainted brats party for students/staff/faculty at the horticulture greenhouse, 12:00 noon. Cost is \$2.00, please bring a potluck item also. (*Wisconsin brats by Pete Ascher*).

BABY BOY - Jacob Thacker, born to Patricia & Toby, in Washington, D.C., on Sept 6, weighing 9 lb 10 oz, 22 inches, grandson of Don White. Congratulations!



CONGRATULATIONS.....to Dr. Florian Lauer who has been named Honorary Life Member of the Potato Association of America (PAA). It was announced during the annual meeting held in Calgary, Alberta, July 24-28, 1994.

GREENHOUSE UPDATE.....(1) The last piece of Exolite was installed on September 14. Projects may move into their assigned sections now. Vent controllers for houses H & K are on back order and should be here and installed by the first week of October. (2) Cooler Clean Out.....198-C will be cleaned out and sanitized on September 20 (Tuesday). If you have material in this cooler and you want to keep it, please label with your name and date it. This cooler has been assigned for teaching use. R. Meissner

FIRST ANNUAL HORTICULTURE GOLF OUTING....was held despite wind/rain on September 12. Five hardy souls showed up (S. Lund, K. McNeil, J. Lutz, J. Pierson & myself) to golf. I understand they all finished but no scores have been turned into me. I will try to schedule another one on a nice weather day. Thanks for turning out....Roger Meissner

VIDEOTAPE INDEX GUIDE available for your perusal from Evonne Kuyper in the main office. It was compiled by Crop Science Society of America Crop Science Teaching Improvement Committee. The use of videotapes in the classroom as well as in various industry training programs has increased significantly the past several years. Videos are particularly useful for supplementing course material in both lecture and laboratory portions of various agriculture-type courses. Topics include: alternative crops, biotechnology and genetics, botany, cereal crops, environment, equipment, fertilization, fiber crops, forage crops, general, irrigation, pesticides, pests, production, soil, soybean/oil crops, sustainable agriculture, tillage, training, turfgrass/landscape.

MINNESOTA LANDSCAPE ARBORETUM EVENTS/CLASSES FOR OCTOBER

Japanese Tea Ceremony & Art Sale, October 2 (1-4)
Members Luncheon, October 6 (11:30-1:00)
Rose Tipping Day, October 15
Ornamental Grasses for Minnesota, October 4 (10-noon) \$15/20 - member/non-member fee
Seed Art: Crafting with Seeds Workshop October 8 (10-noon) \$25/30
English Country Basket Centerpiece, October 19 (10-noon or 1-3) \$30/35
Garden Pathways, October 22 (10-noon) \$15/20

UNIVERSITY NEWS

RESIGNATION ANNOUNCED....E. F. Infante, Professor, Senior Vice President for Academic Affairs, with mixed emotion announces the resignation of Dr. Marvalene Hughes as Vice President for Student Affairs effective July 31, 1994. She will become President of California State University at Stanislaw. Dr. John (Jack) Q. Imholte, a faculty member at U of M-Morris, was approved to fill that position at the September 8 Board of Regents meeting.

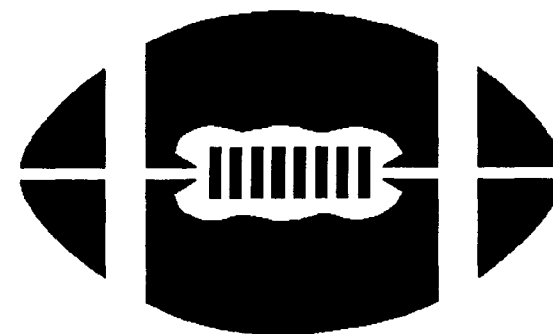
CLOSED.....effective September 30, the University Laundry Services Department.

ANNOUNCEMENT FOR INSTRUCTORS.....all general purpose classrooms now contain overhead projectors. Included in that listing is 415 Alderman Hall.

PANEL DISCUSSION....Session I: Rwanda - A Nation in Turmoil, October 7, 2:30-4:30, 365 Borlaug Hall, sponsored by Dept. of Plant Pathology and the Office of International Agriculture Programs.

SYMPOSIUM.....in Developmental Biology "Cell Interactions in Neurodevelopment", October 31-November 1, 1994, Radisson Hotel Metrodome, U of MN Mpls Campus. Sponsored by U of MN Cancer Center, CBS, Council of Biological Deans, Grad School, Institute of Human Genetics, Medical School, Depts of Biochem (CBS), Biochem (Med), cell biology & Neuroanatomy, Genetics & Cell Biology, Lab Medicine and Path, Medicine, Division of Oncology, Neurology, Neurosurgery, Pediatrics, Pharmacology, Physiology, Plant Biology, Psychiatry, Veterinary Pathobiology.

GRANT OPPORTUNITY....the USDA National Research Initiative Competitive Grants Program has issued its request for proposals for 1995. Program areas are Natural Resources and the Environment (including Fores/Range/Crop/Aquatic Ecosystems and Soils and Soil Biology), Nutrition, Food Safety, and Health, Pest Biology, Biological Control, and Integrated Pest Management (including Assessing Pest Control Strategies), Plants (Genetics, development, metabolism), Markets, Trade and Rural Development, Enhancing Value and Use of Agricultural and Forest Products, and Agricultural Systems. Earliest deadline is November 14. Call 202-401-5022 for get the request for proposals.



GO GOPHERS

TWIG BENDER

Volume 12, #30, 9-23-94, Editor: E.Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR/NEWS FOR SEPTEMBER 26-30, 1994

September, 1994						
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MON- Plant Breeding Seminar, Nitrogen Efficiency Under Low Input Conditions, Dr. Gunther Seitz, University Hohenheim, 3:30 pm, 306 BorH.

TUE - PBS Colloquium, Genetic Interactions

Controlling Trichome Development in *Arabidopsis thaliana*, John Larkin, Post Doc., 3:30 pm, 335 BorH.

THR - Horticultural Science Seminar, Recent Aspects of Coconut Micropropagation, Dr. Roland Hornung, Wye College, University of London, 3:30 pm, 415 AlderH.

THR - COA Curriculum Committee, 1:30-3:00 pm, 101 Coffey Hall.

FRI - COA Prospective Student Services sponsors high school visit day.

CONGRATULATIONS.....to Don and Jean White who are the proud grandparents of Kaitlin Marie McCoy, born to Lori and Tom McCoy on September 18 at 2:49 a.m. Kaitlin Marie weighed 8 lbs 5 oz, 21 1/4" tall.

URGENT REMINDER.....graduate faculty are urgently needed to volunteer for the Graduate School Research and Fellowship Committees. Please turn yourself in to either Jim Luby, DGS, or Gary Gardner.

TRAINING.....the Sexual Violence Program, located at 253 Nicholson Hall, will be conducting another Volunteer Sexual Assault Training October 10-November 7, 1994. This training is specifically designed to educate students, staff, and faculty who are interested in being prospective volunteer Sexual assault Advocates who will be working in the Sexual Violence Program on issues pertinent to working with sexual assault victims/survivors. If anyone is interested in becoming a Sexual Assault Advocate, see Laura Kalisch in the main Hort office for details about the program.

VOLUNTEERS NEEDED! The annual chrysanthemum seed line evaluations will be held next week, September 26-October 1. All members of the department, as well as your friends and relatives, are welcome to participate. It will take 30 minutes of your time, at most. Pick up evaluation forms in your mailbox and return them to Neil Anderson. Thank you for your participation!

ATTENTION UNDERGRADUATES

ATTENTION UNDERGRADUATES

The 6th District Horticultural Society has extended their scholarship application deadline to December 1. An award of \$500 (for tuition) will be made to a hort student from the district which consists of Wadena, Cass, Crow Wing, Aitkin, Todd, Morrison, Mille Lacs, Kanabec, Pine, Stearns, Benton, Meeker, Wright, and Sherburne Counties. Undergrad advisors, please bring this to the attention of any students from this district. Please make an announcement to your class. Application forms can be picked up from Evonne Kuyper (305 Alderman) or Deb Brown (158 Alderman).

TWO INTERNSHIPS.....Minnesota State Horticultural Society (MSHS) community gardening program, MN Green, has an opening for an assistant during the school year. The position is available through May, 1995. Twelve hrs per week; stipend of \$5.00 per hr. A variety of work includes clerical work; conference coordinating; applicant screening; coordinating plant donations and assisting with filing needs for environmental and horticulture-related information. The second internship is for a student with knowledge of practical gardening skills for a 100-hr project during the upcoming year. This intern will update horticulture-related slide presentations, adding practices of sustainable landscaping and integrated pest management for an audience of non-technical hobby gardeners. He/she will also develop scripts to be read aloud by users. Volunteer positions are always needed for events and special projects. Apply by letter to Dorothy Johnson, Center for Northern Gardening, Minnesota State Horticultural Society, 1755 Prior Avenue N., Falcon Heights, MN 55113. Their facility is located about 1/2 mile north of Alderman Hall. Application deadline is October 1.

AG CAREER DAY..... is scheduled for Wednesday, October 26 from 10-3. Initial sign-up for interviews is scheduled for Mondays at 8 am on the week preceding the scheduled interview. Register with Career Services by completing their computerized resume forms located in room 17 COB.

- over -

College Placement Annuals have arrived. Seniors should stop by Career Services to receive their complimentary copy. Jean Underwood, Coordinator, Career Services at 624-2710.

ATTENTION UNDERGRADUATES ATTENTION UNDERGRADUATES

1995 REQUEST FOR PROPOSALS.....North Central Regional Center for Rural Development is seeking innovative and creative research or education program development proposals in priority rural development areas. Deadline is October 1, 1994. See details across from faculty mailboxes.

THE LUCE SCHOLARS PROGRAM..... of Professional Apprenticeships in Asia is available to eighteen young Americans of outstanding promise and who have not yet reached their thirtieth birthday of September 1. Campus deadline is November 1. Contact the Graduate School Fellowship Office, 625-7579

The End

DEPARTMENT CALENDAR/NEWS FOR OCTOBER 2-8, 1994

October, 1994						
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

MON- Plant Breeding Seminar, Statistical Applications in Queensland Plant Breeding Programs, Dr. Robert Stucker, 3:30 pm, 306 BorH.

TUE- PBS Colloquium, Evolution, Revolution and

monophyly: Molecular Systematics and Basidiomycete Classification, Eric Swann, Post Doctorate, 3:30 pm, 335 BorH.

WED- Department coffee hour, 9-10 am, 394 Alderman. Treats brought by Elizabeth Zimmerman.

Department Seminar, Gene expression during anther and pollen development, Dr. Alan Smith, 3:30 pm, 415 AlderH.

THR- FCC, 2:30-4:00 pm, 398 AlderH.

FRI- UAC, 3:00 pm, 398 AlderH.

Looking Ahead

October 10 - Greenhouse Committee, 9 am, 172 HrG
- GSC, 1:00-2:30 pm, 398 AlderH.

Welcome New People: Svetlana Kanevshaiza is visiting from Russia with Florian Lauer. She came in mid-June and will be here until the end of October and has been learning all aspects of seed-potato production from in vitro maintenance to delivery of seed-potatoes to production growers. ConAgra International Agricultural Programs and the Minnesota Department of Agriculture are coordinating her training program. Her office is 320 Alderman.

Dr. Andrew (Andy) James is a Post Doctoral Associate. He received his B.Sc. (Honors) and Ph.D. degrees from Wye College, University of London, England. His research interests are in woody plant phasic development,

adventitious root initiation and in vitro micropropagation. During his stay in our department, he is working with Wes Hackett and Al Smith on the English ivy rooting project. Andy is an avid gardener and has travelled extensively. Stop by his office, 364 Alderman, and ask him about gardening and horticulture in other parts of the world.

Kerry Strobe writes that she grew up on a small family farm near St. Thomas, Missouri (population 263). St. Thomas is located near Jefferson City in Central Missouri. She helped with the care of both hogs and cattle plus lent a hand with hay baling and plowing. She received her Bachelor's degree from the University of Missouri, Columbia. In her spare time, she enjoys playing volleyball and country-western dancing. Kerry is here for a Masters degree. Say hello to Kerry in 352 Alderman.

Ami Beaver is a Wyoming native. She helped her family tend to 10 acres of land east of Casper, Wyoming. Her Bachelors of Science degree is in botany from the University of Wyoming. For an honor's thesis, she worked with Dr. Thomas Vegelmann on the photosynthetic responses of plants exposed to ultra violet β radiation. I plan to continue research on aspects of plant adaption to multiple environmental stresses. For fun, I love to go hiking, especially in the mountains, but I shall make do with the Northern Minnesota Forests while I am here. Ami has a desk in room 352 Alderman. Stop in!

CLOSED.....the Hort Accounting Office will be closed on Wednesday, October 5, all day. The staff will be attending the University-wide CUFS User Network Annual Conference on the other campus. Business as usual on Thursday. A. Klidzejs, Accountant.

CORRECTION.....to department phone list distributed to your mailbox last week.....D. Filler phone number is 5-4292. Sorry for any inconvenience that has caused. *We're only human*

FALL FOLIAGE HOUSEPLANT SALE.....U of M Hort Club is having the sale on October 6 & 7 from 9-5 in SPSC 108 & 110. The sale will feature a variety of easy to care for foliage plants for your office, dorm, or home. Be sure to come and tell your friends about it. See you there!

ATTENTION GRADUATE STUDENTS....October 3 is the deadline to apply if you wish to attend the Graduate School's fall commencement ceremony on December 5. Submit the proper forms to 316 Johnston Hall. Ph.D. students must have an approved Thesis Proposal Form on file and submit a copy of

the title page of their thesis. Master's Plan A, an approved Degree Program on file and submit the title page of their thesis. Master's Plan B, an approved program on file. FFI 625-3490.

1994-95 GRADUATE STUDENT OFFICERS

President	To be determined
Graduate Studies Committee	Tami VanGaal Paul Johnson Sopheak Sim (alt)
Council of Graduate Students	Eric Zdilla
Seminar Representative	Wen-ping Chen
Alderman Project	Kerstin Concibido Christi Holeman Chen-Yi Hung
Card Fund	Amy Moberg
Computer Committee	Steve Lund (IBM) Alfredo Robleto (Mac)
Social Committee	Charlotte Herman Robert Quene
Public Relations Committee	Richard Reineke
Grievance Committee	Paul Bucciaglia
Faculty Meeting Rep	Ken McNeil

GARDEN WRITERS FOUNDATION....announces scholarships available. \$2000 in scholarships will be awarded directly to the institution(s) on behalf of a student(s) to encourage students who major in horticulture to develop their skills with further education toward a career in home garden media communications. The scholarship award is intended as an aid in the purchase of text books, garden books, special horticultural projects, or as a tuition aid to further a student's horticultural journalism skills. Eligible students include: Jr/Sr majoring in horticulture and/or plant science with an interest in writing. Applications deadline is December 1. Recipients will be announced by January 31, 1995.

TOP 10 REASONS TO CALL DIAL-U THIS WINTER
by Deb Brown

10. The hammering you heard last night was carpenter ants remodeling your bathroom.
9. Talking to your plants just isn't working anymore.
8. The bats in your belfry are driving you crazy.
7. Fleas have chased your dog out of the house.
6. The powdery mildew on your indoor plants is so thick, it looks like snow.
5. Your African violets haven't bloomed since they left Africa.
4. Cockroaches just carried off your refrigerator.
3. You need super glue to keep the leaves in your crabapple tree.
2. You want to grow the biggest tomatoes in the neighborhood
1. We're open 9 to 1 weekdays, and we're lonely.

Please refer non-commercial hort, ent, and plant path questions to Dial U. We're open 9 to 2 weekdays; There's an automatic \$2.99 charge when people call in. Our phone number is 1-900-988-0500, good state-wide.

TWIG BENDER

Volume 12, #32, 10-7-94, Editor: E.Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR/NEWS FOR OCTOBER 10-14, 1994 University of Minnesota Homecoming Week

October, 1994						
S	M	T	W	T	F	S
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

MON- Greenhouse Committee Meeting, 9 am, 172 HrG.

GSC, 1:00-2:30 pm, 398 AlderH.

Plant Breeding Seminar, Public Plant Breeding Programs: A n

Economist's Perspective, Dr. Michael Martin, Associate Dean, COA, 3:30 pm, 306 BorH.

TUE- PBS Colloquium, Genetic Dissection of Flowering Tim in Maize, Dr. Ron Phillips, Professor, Agronomy & Plant Genetics, 3:30 pm, 335 BorH.

WED- Department coffee hour, 9-10 am, 394 Alderman. Treats brought by Wes Hackett & Ed Stadelmann. At 9:45, there will be a drawing for a Community Campaign Fund t-shirt. All who attend coffee hour will be eligible for the prize. You need not have contributed to the campaign to be eligible for the t-shirt.

Department Seminar, Stability of phenotypic characteristics associated with progressive development in the woody Australasian shrub, *Solanum aviculare* Forst, Dr. Andrew James, Post Doctoral Associate, 3:30 pm, 415 AlderH.

THR- Hort 8066, Woody Plant Agriculture, Chris Hanson, Administrator/Masters student, Center for Alternative Crops & Products, 4:05 p.m., 394 AlderH.

SAT- Gopher vs Northwestern Homecoming Football Game, 6:00 pm, Metrodome. Tickets are available at \$21.00 or \$9.00. Call 624-8080.

USER LISTS....Esther Thorpe needs the names of the persons who are authorized to purchase items on your journal voucher down at the Bookstore. Faculty should turn these lists into Esther no later than October 10.

EXAM DATES ANNOUNCED.....Hort graduate students should take note of the following dates for the prelim examination for 1994-95:

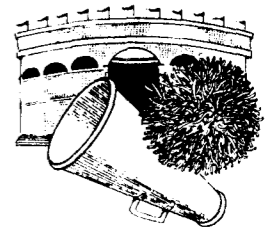
October 27 November 17 January 19 February 23 April 20

The resource material will be available on October 13 for the October 27 exam. Please see Evonne Kuyper for these materials and/or questions.

CONGRATULATIONS.....to Daniel Warnock on his acceptance of the Office of President for the Horticulture Graduate Students for 1994-95.

GARDEN PLOTS.....Be sure to harvest that last minute produce and clean up your garden plots by October 16. DO NOT LEAVE any stakes, mesh, plastic mulch, etc. Thank you from Roger Meissner and Greg Gingera, Plot Coordinators.

GO GOPHERS



TWIG BENDER

Volume 12, #33, 10-14-94, Editor: E.Kuyper (kuyper001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR/NEWS FOR OCTOBER 17-21, 1994

October, 1994						
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23	24	25	26	27	28	29
30	31					

MON- UAC, 8:30 a.m.,
398 AlderH.

COA Curr.Com, 1:30-3:00
p.m., 101 Coffey.

PB Seminar, Breeding
Legumes for Sustainable
Agriculture, Dr. Nancy
Ehke, 3:30 pm, 306 Bor.

TUE- Office Safety and Ergonomics, 8 am, 335 Borlaug.

PBS Colloquium, Regulation of nitrogen metabolism in
Chlamydomonas, Rogene Schnell, Post Doctorate, Molecular, Cellular
& Developmental Biology and Genetics, 3:30 pm, 335 BorH.

WED- Office Safety and Ergonomics, 8 am, 110 Peters.

Department coffee hour, 9-10 am, 394 Alderman. Treats brought by
Lynnette Brudvig & Evonne Kuyper.

Department Seminar, Biochemical and molecular basis of the stability
of maturation related characteristics in *Hedera helix* L., Dr. Wesley
Hackett, 3:30 p.m., 415 AlderH.

THR- FCC, 2:30 p.m., 398 AlderH.

Hort 8063, Application of Chi-squared statistic, Gustavo Robleto, 3:00
p.m., 394 AlderH.

GCB Seminar, Regulatory mechanisms controlling expression of gene
transfer functions in *Enterococci*, Dr. Gary Dunny, Dept. of
Microbiology, 3:30 p.m., 335 BorH.

FRI- Maroon & Gold Casual Friday - pick up a 20% discount coupon from
Evonne to purchase your M & G apparel at U of M Bookstores.

October 15- Gopher vs Northwestern Homecoming Football Game, 6:00
pm, Metrodome. Tickets are available at \$21.00 or \$9.00.
Call 624-8080.

October 17-20 Annual Extension Conference,

October 21- 3rd Friday Happy Hour, 4:00 p.m., Lobby.

HORT GREENHOUSE NEWS
Roger Meissner



FIELD PLOT IRRIGATION.....water lines to all field
plots will be turned off and blown out on October 24.

VEHICLE UPDATE.....say goodbye to 3546 (blue cargo van) and 3706 (silver
lift gate pickup). These two vehicles will go to the auction block on
November 1 for sale on November 12. To replace these vehicles the
department will be buying a 1988 Plymouth Voyager and should receive this
vehicle sometime in late December. The department currently owns two
other vehicles - 3471 (blue station wagon) and 3721 (1 ton blue truck with
dump box). Keys and check out calendar are found in the greenhouse office.
If you have any questions, call me.

AG EXP STATION....has set up a contract with Merrick Community Services.
They specialize in getting physically and mentally challenged persons into the
job market. These persons perform such tasks as sweeping, pot washing
and weeding. Many positive comments not only from Merrick Community
Services but also from department such as Agronomy, Plant Path and
Horticulture who are currently utilizing this program. If your project is
interested, please contact me.

FALL IS HERE.....during the next two weeks, cooling pad pumps will be
drained and pads removed. Upper ridge vents and controllers are installed
and working. Goodbye summer, hello winter!

OPEN ENROLLMENT.....October 16-November 15 - the medical plan provider directories for your perusal are located on round table in 305 Alderman.

ATTENTION CIVIL SERVICE STAFF.....there is a wide variety of motivational and self-improvement tapes available for check-out in the Horticultural Office Library (temporarily located in 305a Alderman Hall). Soon, we will also have a selection of books also available for check out. If you have any questions, suggestions, or requests regarding specific titles, please contact Patrice (4-1284).

PEACE CORPS RECRUITER.....will be at the SPSC October 25 from 9-4.

UNDERGRADUATE AWARDS

Junior or senior undergraduate students, for excellence in agricultural or food chemistry research, awarded a trip to the fall ACS meeting to present his/her research and receive \$250 cash award/certificate. Deadline to apply: Feb 1, 1995. Contact Dr. H. E. Swaisgood, North Carolina State University, Department of Food science, Raleigh, ND 27695-7624.

UROP and U-SEARCH are offering 8 UROP Research awards. Deadline: October 24, 1994. Undergraduate students can earn a stipend (up to \$800) and expense allowance (up to \$250). Awards are offered for research, scholarly, or creative projects undertaken in partnership with a faculty member. U-SEARCH fosters environmental stewardship by encouraging hands-on environmental research projects about the University community. Contact U-SEARCH at 625-6389 for complete guidelines.

HAVE A GOOD WEEKEND

GO GOPHERS



DEPARTMENT CALENDAR/NEWS FOR OCTOBER 24-28, 1994

October, 1994						
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<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>
30	31					

SUN- Channel 6 MCN, 9 am & 9 pm, Minnesota Gardening, Forcing Bulbs: Bring springtime indoors this winter. A look at starting bulbs to bloom all winter.

MON- FCC, 1:00 p.m., 398 AlderH.
GSC, 3:00 p.m., 398 AlderH.

PIBr Seminar, Breeding for protein in cereals, Gilberto Sosa, 3:30 p.m., 306 BorH.

TUE- PhD. Defense Seminar, Genetic relationships and geographic differentiation of Strawberry (*Fragaria spp.*), Rick Harrison, 9:00 a.m., 394 AlderH.

PBS Colloquium, Genetic analysis of ethylene-regulated development in *Arabidopsis*, Dr. Tony Bleecker, Professor, University of Wisconsin, 3:30 p.m., 335 BorH.

WED- Dept. Coffee Hour, 9-10 am. Treats by Paul Li & Martha Piechowski

Hort Seminar, The role of the University in the professional integration of international students and scholars, Dr. Teresa Harrell, Institute of International Studies and Programs & International Students and Scholar Services, 3:30 p.m., 415 AlderH.

COA "Career Day 1994", 10 am - 3 pm SPSC North Star Ballroom.

THR- Prelim Exam, 8-4, grad students pick up the question from Evonne in 305 AlderH.

Hort 8063 - Greg Gingera, 3 p.m., 394 AlderH.

LOOKING AHEAD

Nov 2- UAC, 8:30 am
Regular Faculty Meeting, 1:00 pm
Nov 7- Greenhouse Meeting, 9:00 am
GSC, 10:45 (time change for this mtg only)
Promotion & Tenure (P&T) Mtg to evaluate assistant professors, 1 pm
Nov 9 P & T Faculty Mtg to evaluate assistant professors (cont.), 1 pm
Nov 14 P & T Mtg to evaluate associate professors, 1pm
Nov 16 UAC, 8:30 am
Nov 18 FCC, 10:00 am
Nov 21 GSC, 3 pm

WELCOME NEW PEOPLE.....Leslie Yetka. I grew up in the Twin Cities and have a B.A. in biology from Macalester College. After that, I worked as a lab technician here in the Ecology Dept. under Dr. Eville Gorham for about three years. Through the experience, I became interested in wetlands, and wetland plants in particular. I am now looking at various aspects of wetland revegetation, including rhizome establishment and tolerance of oxygen and water stress in various wetland sedges out at the Arboretum. In my spare time, I enjoy reading, working in my yard, and taking long walks with my husband and our beagle Bailey. Please stop and see me in room 452 or 218.

ATTENTION.....Ed Stadelmann has a tall file cabinet that he would like to exchange for two short file cabinets. Call him to make a deal.

WHOMEVER ordered a PA system megaphone from Midwest Business Products the order (#341054) was cancelled as the item is no longer available. Please reorder something else. Thanks, Esther.

ALDERMAN Hall's cooling tower must be shut down for modification and this will take place Wed., Oct. 26th approx. 8:30 am, unless there is some experiment in a growth chamber that absolutely may not be interrupted. The connection between the tower and the chambers, being, that the tower cools most of the chambers. This interruption should take about 1-2 hours, after which, the chambers will be started and run without further stoppage. If anyone has a problem with this plan they should contact Dave Olson at 4-

TWIG BENDER

Volume 12, #34, 10-28-94, Editor: E. Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR/NEWS FOR OCTOBER 31-NOVEMBER 4, 1994

October/November, 1994						
S	M	T	W	T	F	S
<u>30</u>	<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
6	7	8	9	10	11	12
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20	21	22	23	24	25	26
27	28	29	30			

MON- Halloween - prize for the best costume! Judging at 10 a.m. in the lobby.

TUE- COA Faculty Assembly, 2:00-4:30 p.m., 335 BorH.

TUE- PBS Colloquium, Limited effects of soil nutrient heterogeneity on plant population structure, Brenda Caspar, Professor, University of Pennsylvania, 3:30 p.m., 335 BorH.

WED- Undergraduate Affairs Committee, 8:30-10:00 am, 398 AlderH.

Dept. Coffee Hour, 9-10 a.m. 394 AlderH. Treats by Ami Beaver and Kerry Strope.

Hort Faculty Meeting, 1:00-3:30, 394 AlderH.

Hort Seminar, Genetics and physiology of flowering in selected *Poa annua* L., Paul Johnson, Ph.D. graduate student, 3:30 p.m., 415 AlderH.

THR- A Global Event, presented by COA & MN Ag Project, Linking Global Trade and the Environment: Issues and Policies, 8:30-3:30. Call 624-3009 to reserve your place. Cost: \$20.

Hort 8066, Research Proposal, Sopheak Sim, 4:05 p.m., 394 AlderH.

CONGRATULATIONS.....to Rick who passed his exam this past Tuesday. Dr. Harrison and wife will be leaving for Scotland where he has a post-doc position. Talk to Rick for details.

REMINDER....to all faculty/staff from Esther Thorpe in Accounting. BECKWITH ORDERS....fill in the job description box on all Beckwith Copy Request Forms. For teaching purposes, she needs the course number, whether its exam or syllabi, etc. Copying charges not clearly stated will be charged to your project. FAX ORDERS....if your are faxing purchasing (PO) to a small, new, or non-contract U of M vendor, please do the following: make a copy of the back of the (white) first page and fax it with the PO to the vendor. This explains our tax exempt status and payment terms. If you have any further questions, contact Esther, 4-0794.

GREENHOUSE NEWS.....from Roger Meissner. Justin Solt is employed as the weekend waterer. He is freshman and is majoring in Animal Science. He comes to us from a farm down in Worthington. Welcome Justin.

COMPUTER HELP.....Michael Balak, who currently provides computer support to Rhetoric and the College Office, has accepted the position of User Services Specialist to assist departments with software and hardware issues, coordinate college-wide training of departmental users, and to participate in a collegiate assessment of information systems needs. Mike's appointment will begin on November 1, 1994. Great News!

GRANDMA BROWN.....Deb announces her 1st grandchild, Max, child of Susan and Peter Brown weighing in at 7 lbs 12 oz, 19 1/2" born on October 19, 1994. Congratulations on your beautiful grandchild, Deb.

LOST/FOUND....a ring in the mens restroom on October 26. See Kathy in 305 Alderman to claim.

UMMTC names executive director. Dianne H. Bilderback is a native of Wheaton, MN and will be responsible for managing and directing the Upper Midwest Manufacturing Technology Center's activities, developing programs in response to industry needs, and helping to evaluate the Manufacturing Technology Center's impact on industry. She has degrees from St. Catherine and St. Thomas. Minnesota Technology is located at 111 Third Avenue South, Suite 400, Minneapolis MN 55401 (612-338-7722).

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for November, 1994
Call 443-2460, extension 106 for information

Nov 13 Here, There and Everywhere, MN History Center, 12 noon -5 pm.

Nov 20 Family Trees, Arboretum, 1:00-3:00 pm.

Classes:

Nov 1 Permanent Flower Swag Workshop, 10-noon or 1-3 pm, \$30/35.

Nov 10 Weave a Dream Catcher, 9-noon or Nov 12, 9-noon, \$20/25.

Nov 15 Forcing Bulbs Workshop, 10-noon, \$25/30.

Nov 18 Building Homes for Birds and Animals, 10-noon, \$25/30.

Prices quote are for \$member/\$non-member.

HOT OFF THE FIRST FLOOR PRESS.....by Dave Olson

This is an old story I am about to relay, but it is none-the-less applicable to any of you who will be spending any quantity of your hard to come by project dollars! Someone has just decided to purchase a piece of equipment and this item costs \$500.00 or more. All of the competitive items have been sifted through and the lowest price has been assured, all is well with the world. All that is needed is patience to wait for the delivery of the goods. But wait, what is it that Dave Olson has been trying to get departmental purchasers to do, for several of his nearly 20 years looking after all of the departmental "things"?... Be sure that on any bid that there is the statement that: no bid will be accepted without the goods being accompanied by a full service manual. Without this manual, you are at the mercy of the supplier/manufacturer when something goes wrong, and eventually it will! Remember; you have the most influence with these "robber-barrons" before you agree to make the purchase! Just say after me: "No service manual, No sale." This attitude should also work for items that don't go out on bid. The customer is always right!

The Cleanout of room 201 will begin Tuesday Nov.1 with the tagging, for disposal, of many useless and unused pieces of equipment and piles of materials in the room. A brightly colored piece of paper with the "bye bye" printed on it will be fastened to the goods that are about to be set out

in the hall for their owner to take them to a more suitable home. Tuesday the 2nd, the items in question will move from 201 to the hall just outside for the "reviewial". Any items not claimed and resituated by noon the 3rd will find themselves on a truck bound for Como Yard. Their next stop is likely a large scrap heap in The Yard, then to Northstar Steel, to be squirted into band, rod and angle iron. What an end for such noble research tools! Dave and Roger will be moving the last remains. Oh, anyone finding anything of use in the hallway selection on the 3rd, before it's last trip, is more than welcome to come and salvage...but it can not go back into room 201! Some have been heard to say that this is better than Christmas!...It won't show up on your Visa statement. To go along with the cleanout in room 201, we are offering to remove any unwanted lab items, as long as they show up in the hall, outside your lab, with a bye bye tag on them. (chemicals cannot be accepted). All of which leads to the object of all this activity, the arrival, sooner or later, of our new growth chambers. Anyone having suggestions as to the arrangement of this facility is encouraged to lay their thoughts on Dave Olson ASAP, the plans are taking shape and are still plastic. One last item, about a year ago, I was asked by a department person, who I cannot remember, if a small freeze drier in room 201 was ever used and if not, could it be put out on loan to another department. As we had not used it in 15 years, the item was hauled off. Since then, situations have changed and both of our driers have fallen on hard times. Now, the old freeze drier itself is still useless to us, due to it's lack of shelf temperature control, but the vacuum pump that went along with it would be extremely useful in getting our drying ability back. Oh please help me get our pump back, the alternative would have us coming up with many more dollars than we can, especially in these tight times! "reviewial"



BORDER BATTLE # # # # GO GOPHERS!

TWIG BENDER

Volume 12, #35, 11-04-94, Editor: E. Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR/NEWS FOR NOVEMBER 6-12, 1994

SUN- Minnesota Gardening, Plants are Therapeutic: Plants help you feel better, work better and get well faster, Channel 6 MCN, 9 am & 9 pm.

November, 1994						
S	M	T	W	T	F	S
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<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

MON- Greenhouse Meeting, 9 am, HrG.

GSC, 10:45 am, 398.

Promotion & Tenure Faculty Meeting, 1 pm, 394.

MON- PIBr Seminar, Marker-Assisted Breeding - Is It Practical?, Dr. Mark Sorrells, Cornell University, 3:30 p.m., 306 BorH.

TUE- PBS Colloquium, Mating type locus of *Chlamydomonas*, Ursula Goodenough, Professor, Washington University, 3:30 p.m., 335 BorH.

WED- Coffee Hour, 9-10 am, 394 AlderH. Treats by Bud Markhart & Cindy Tong.

Advisor training of on-line registration, 3:00 p.m., 33 McNeal.

P & T Faculty Meeting, 1:00-3:30 p.m., 394 AlderH.

Hort Seminar, Horticulture as therapy: The healing art of plants, Jean Larsen, Minnesota Landscape Arboretum, 3:30 p.m., 415 AlderH.

THR- FCC, 2-4 pm., 398 AlderH.

Hort 8063, Discussions in Hort Plant Breeding, Daniel Warnock, Ph.D. graduate student, 3:00 p.m., 394 AlderH.

Hort 8066, Reducing Deer Damage to Woody and Herbaceous Plants, James Lutz, Masters grad student, 4:05 p.m., 394 AlderH.

Advisor training of on-line registration, 3:00 p.m., 33 McNeal.

TRAINING.....Lab Safety Training will be held on November 15 at 8 AM in 335 Borlaug. The same program will be repeated on November 17 at 8 AM in 335 Borlaug. Hort Dept. employees who work in a lab HAVE to attend one of these sessions or attend a make-up session. Please sign up for a safety training session (sign-up sheet located on the round table in 305 Alderman) so we can get the proper training certification form to you, EVEN IF you have already signed up once (sorry, the first sign-up sheet was lost and forgotten). Also, contrary to a previous memo from the safety committee, anyone who works in the greenhouse HAS to attend Worker Protection Safety training, which means that some people HAVE to attend TWO safety training sessions. Remember, better safe than sorry!!!! Cindy Tong

TWO SYMPOSIA.....are being held to lay the groundwork for the 1995 Farm Bill. With the theme: "Farm and Food Realities for the 21st Century," the symposia are designed to assess the changing political, economic and budgetary environment that will shape the debate that is expected to begin in early 1995. The first will be held at the Brookings Institution, Washington, D.C. on November 16 and the second at the Earle Brown Continuing Education Center, on November 18. A preliminary agenda is posted across from the faculty mailboxes along with a registration form. Deadline to register: November 15.

MSR&PC....The Minnesota Soybean Research and Promotion Council invites interested and qualified individuals, organizations and institutions to address the current research priorities of the MSR&PC. See Gary Gardner for the request for proposals and instructions for applying for a grant.

GRANTS COMPETITION ANNOUNCED.....1995 International & Predissertation Fieldwork Grants....The MacArthur Program will award grants to graduate and professional school students carrying out internships/supervised fieldwork related to the developing world and to students making exploratory field trips in the developing world to improve and carry forward plans for dissertation research related to the goals of the MacArthur Program. See posting across from graduate student mailboxes.

GO GOPHERS



TWIG BENDER

Volume 12, #36, 11-11-94, Editor: M. Piechowski (m-piec@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR NEWS FOR NOVEMBER 13-19, 1994

November, 1994						
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6	7	8	9	10	11	12
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20	21	22	23	24	25	26
27	28	29	30			

MON- Promotion & Tenure Faculty Meeting, 1:00pm, 394.

TUE- PBS College, 3:30pm, 335 BorH

WED- Coffee Hour?

UAC, 8:30-10:00am, 398

Hort Seminar, The development of MTGF and the new direction for horticultural display and trial garden, Brad Peterson, 3:30pm., 415 AlderH.

THR- Prelim Exam, 8:00am-4:00pm

Hort 8066, In Vitro Screening of Western United States Vaccinium Species for PH Tolerance, Amy Moberg, 4:05pm, 394 AlderH.

FRI- FCC, 10-12 noon, 398 AlderH.

COA Curriculum Comm. 1:30-3:00pm, COA Scholarship Reception, 3:30pm

High School Visit Day, 11:30-12:30

There will be a reception honoring the recipients and sponsors of 1994-95 College of Agriculture scholarships on Friday, November 18 from 3:30-6:00pm in the Earle Brown Center.

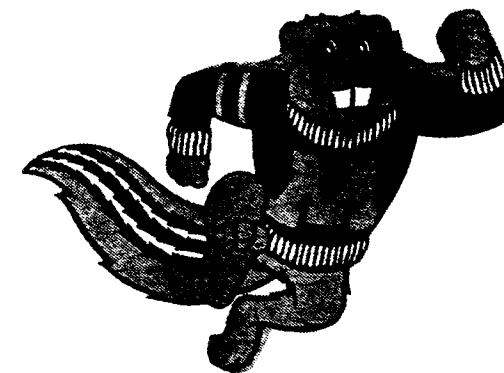
Don White will be installed as a fellow in the American Society of Agronomy ASA, CSSA, & SSSA Meetings in Seattle next week. Congratulations!

The annual honey and bees wax candle sale in Entomology is Thursday the 17th.

Any students who have plans for international study in the next year and who would be interested in competing for the National Security Education Program (NSEP) scholarship, applications are due by November 21. Undergraduates can receive up to \$8,000 per semester. They are required to study a foreign language while abroad but there are no other restrictions. You must be a U.S. citizen. For applications and more information contact: International Study and Travel Center, 102 Nicholson Hall, 626-9000, <istc@gold.tc.umn.edu>.

NEW BECKWITH POLICY. Beckwith will be picking up a maximum of three times a day from now on. Approximate times will be 8:30, 11:00 and 2:30. However, this only depends on whether Mel will be in the area. If you want to make sure your job gets picked up you must call Mel at 640-3063 and leave him a message to call you back.

Upcoming events--Holiday Party, December 2 at 2:00pm in the foyer and room 310.



TWIG BENDER

Volume 12, #36, 11-18-94, Editor: E. Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

DEPARTMENT CALENDAR/NEWS FOR NOVEMBER 20-26, 1994

SUN- Minnesota Gardening, Garden Mums at the Como Park Conservatory: Join us for a look at the beautiful mum display at Como Conservatory, Channel 6 MCN, 9 am & 9 pm.

November, 1994						
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<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
13	14	15	16	17	18	19
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27	28	29	30			

MON- GSC, 3:00 pm, 398 AlderH.

PIBr Seminar, Quality improvement of oilseed crops, Michael Peel, 3:30 p.m., 306 BorH.

TUE- PBS Colloquium, Sex on the dung heap - towards dissecting mating compatibility in *Coprinus cinereus*, Paul Gieser, Doctoral Candidate, PBio, 3:30 pm, 335 BorH.

WED- Dept. Seminar, Turf grass research, Dr. Donald B. White, 3:30 p.m., 415 AlderH.

THR- Thanksgiving Day - University Holiday

FRI- University Holiday

FOREIGN NATIONAL TAX TREATIES FOR 1995....eligible foreign national employees must complete the Forms 8233 and Tax Treaty Affidavits for 1995. These forms can be obtained from Patrice Johnson in the department accounting office.



MAROON & GOLD CASUAL FRIDAYS

CONTINUE.....faculty & staff are to pick up a 20% discount coupon from Evonne Kuyper so you can save \$ when you purchase a maroon/gold clothing item at U of M Bookstores.

BOWLING.....the Horticulture Department Holiday Bowling Party will be December 16 from 2-4. Free to all participants and free gifts. Sign-up is in the back hall. Happy hour will immediately follow bowling (location to be announced).

SAFETY.....if you attended Lab Safety Training this past week, please sign your Lab Safety Standard Training Record form and turn it in to Cindy Tong. If you missed safety training, and need to do a make-up, please sign up on the sheet on the round table in 305 Alderman. The safety video being shown at safety training is getting a thumbs up from most viewers! Please note that the department keeps Material Safety Data Sheets (MSDSs) on most (not all) chemicals (in 3 thick binders) and the University Chemical Hygiene Plan with Appendices B & D, the list of chemicals and their PELs, and Prudent Practices in the Lab, in the folding-door cabinets in 305 Alderman. If you feel that you need more specific safety training than what was covered by Dawn Errede, please let me know. Cindy Tong

GREENHOUSE TIDBITS (from Roger Meissner).....where does your greenhouse space dollar go? From July 1, 1993 through June 30, 1994, the Department of Horticultural Science ordered and used the following:

200 - 3 cu.ft. bags	Stronglit H.P. Mix
360 - 3 cu.ft.	U. Mix
40 - 3 cu.ft.	germ. Mix
79 - 4 cu.ft.	Pro Mix
10 - 4 cu.ft.	LCD 2 Sunshine Mix
10 - 4 cu.ft.	Peatmoss
10 - 4 cu.ft.	Perilite
11 - 4 cu.ft.	Vermiculite
74 - 2 cu.ft.	Silica Sand

Cost = 6,800.00

Pesticides = 1,500.00

Gophers vs Iowa 11-19, 6 pm Dome
Gophers vs Mich Tech 11-19, 1 pm
and 11-20, 2 pm Mariucci Arena

TWIG BENDER

Volume 12, #37, 11-23-94, Editor: E. Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

CALENDAR/NEWS FOR NOVEMBER 28-DECEMBER 2, 1994

November/December, 1994						
S	M	T	W	T	F	S
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<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>1</u>	<u>2</u>	<u>3</u>

MON- PIBr Seminar, A comparison of two mathematical models of intermediary metabolism, Jan Backland, 3:30 pm, 306 BorH.

TUE- PBS Colloquium, Biochemical and molecular dissection of

nitrogen and carbon metabolism in Alfalfa, Dr. Carroll Vance, Agronomy & Plant Genetics, 3:30 pm, 335 BorH.

WED- Undergraduate Affairs Committee, 8:30 am, 398 AlderH.

Department Seminar, Contributing to sustainable agriculture via vegetable breeding research, Dr. David Davis, 3:30 pm, 415 AlderH.

THR- Faculty Consultative Committee, 11:00 am, 398 AlderH.

Hort 8063, Discussions in Horticultural Plant Breeding, Karl Sauter, 3:00 pm, 394 AlderH.

Hort 8066, Discussion of October 27 & November 17 Prelim Questions, 4:05 pm, 394 AlderH. Leaders: Erwin, Davis, Hackett, Markhart, Pellett, White.

FRI- "Celebrate Diversity" is the theme of our department holiday party, 2:00 p.m., Alderman Foyer. People are still needed to help with entertainment, music and decorate the Holiday Tree. Sign up in main office (round table). More details will be distributed.

RECEPTION.....for graduating students (and their families) hosted by President Nils and Pat Hasselmo on Saturday, December 10 at Eastcliff. Call 627-6800.

DEPARTMENT INVITED.....to the Minnesota Landscape Arboretum 1994 Holiday Party on Friday, December 16. RSVP by December 9 to Sandra Stevenson. See posting across from faculty mailboxes. Here's the scoop:

Social Hour	-	6:30 pm
Dinner	-	7:30 (menu: lasagna (meat & spinach), chicken tetrazini, salad, bread, relishes, apple crisp & cherry cobbler)
Place	-	Tanadoona, Camp Fire Camp (on West side of Hwy 41, between Hwy 7 and Hwy 5)
Cost	-	\$10.00 per person
Events	-	Cross country skiing or sledding before social hour
Dress	-	casual

INVITE FROM ANNE HANCHEK, ALTO.....hallelujah! The Minnetonka Choral Society, under the direction of Maestro Jere Lantz, is celebrating its Silver Anniversary - 25 years of presenting choral masterworks with joy and dedication at the highest level of artistry. With full chorus and orchestration, Rutter's, "When Icicles Hang" will celebrate the chill in the air and the blustery weather so much a part of the Minnesota holiday season. Come join us on Sunday, December 4, 3:00 p.m. at St. Therese Catholic Church, 18323 Minnetonka Blvd, Deephaven - it will life your spirit!

REMINDER.....Garden Writers Foundation student scholarship applications are due December 1, 1994. Up to \$2000 awarded. Any questions? Call Alecia Troy 408-847-7333.

CALL FOR PRESENTATIONS...."Gardens for Youth: Nourishing Mind, Body, and Heart". The 1995 American Horticultural Society National Symposium to promote youth gardening programs, June 27-30, 1995, Pasadena, California. Deadline: January 15, 1995 to Maureen Hefferman AHS, 7931 East Boulevard Drive, Alexandria, VA 22308-1300, 800-777-7931, FAX 703-765-6032.

POSITION AVAILABLE.....Senior research plot technician at the Hort Research Center for managing greenhouses and container growing areas Requisition # 660124, contact Peter Moe at 443-2460 X 663.

CALENDAR/NEWS FOR DECEMBER 4-10, 1994

SUN- Channel 6 MCN, 8 am & 9 pm, Minnesota Apples: 1993 U of M varieties. The pick of the crop will be highlighted for fresh use, baking and processing.

December, 1994						
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FINAL EXAM WEEK

MON- GSC Meeting, 3:00 p.m., 398 AlderH.

GRAD STUDENTS
.. Brown bag lunches are scheduled for Mondays 11:30 to 1:00 in room

423. During the Christmas break, we'd like to have question/answer sessions for software used frequently by students. Any interested students should attend the next meeting for more details.

CONGRATULATIONS and thank you to Kerry Strobe for accepting the Council of Graduate Students position recently vacated. The Pres...Daniel 'mole' Warnock.

SELF-REGISTRATION CLARIFICATION.....NEW graduate students are to meet with their adviser prior to their initial registration in the Graduate School. The University Registration Centers will continue to check for adviser's signature for new graduate students but will no longer check for adviser's signature for returning graduate students. Questions on this policy, contact Andrea Scott (5-9364).

SAFETY NOTICES... 1) Worker Protection Safety Training will be held on December 12 (yes, we know this is short notice) from 10 AM until noon in 335 Borlaug. ANYONE who works in the greenhouse MUST attend a Worker Protection Safety training session, or you will not be allowed to work in the greenhouse!!! Please sign up on the sheet in 305 Alderman. Let Roger know if you can't make the session. 2) Violations of radiation materials handling identified recently at the university included failure to secure radioactive materials laboratories, need for proper instruction and use of portable survey instruments, and need for improved follow-up on radioactive

audits. These were low severity violations and permit holders will be notified of recent NRC audit findings. Environmental Health & Safety wants radioisotope users to REMEMBER TO PROPERLY SECURE RADIOACTIVE MATERIAL STORAGE AND USE AREAS AT ALL TIMES. Cindy Tong

SCHOLARSHIPS AVAILABLE.....

- Department of Horticultural Science announces scholarships annually to students with an emphasis in Hort Sci who are making good progress towards their baccalaureate degree. DEADLINE....January 6, 1994.
- Southern Minnesota Managers Assn. (SMMA) announces \$1,000 scholarship award for sophomores in the COA. DEADLINE...December 30, 1994.
- Bedding Plants Foundation, Inc. (BPFI) announces scholarships available annually for students enrolled in vocational, undergraduate or graduate horticulture/floriculture programs. To receive applications, send request to BPFI, P.O. Box 27241, Lansing, MI 48909. DEADLINE....April 1, 1995.

FFI see Alderman lobby bulletin board or see Evonne Kuyper in 305.

DIRECTED STUDIES.....there are several exciting landscape design projects available for winter quarter (1-3 credits each). Contact Brad Pedersen 624-7407 or his Waseca office 507-835-3620.

SEE ESTHER OR LAURA.....we have a 386 to 486 clock-doubled upgrade Microprocessor that we;d like to put to use instead of returning to company. If your lab computer needs upgraded and you are interested, please see one of them.

SPECIAL DEPARTMENT SEMINAR.....Minimizing discharge of drainage water from intensive greenhouse crops under semi-arid conditions using controlled recirculation, Dr. Michael Raviv, Newe Ya'ar Research Center, Haifa, Israel, 9 a.m., December 19, 394 Alderman.

!FRIDAY IS STILL MAROON & GOLD CASUAL DAY!
(see Evonne for a discount coupon to purchase a U of M clothing item)

CALENDAR/NEWS FOR DECEMBER 12-16, 1994

December, 1994						
S	M	T	W	T	F	S
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<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

MON- Faculty Meeting,
1:00 pm, 394 AlderH.

TUE- GSC, 3:00 pm, 398
AlderH.

WED- Turn in all grade
reports & contact hours
to Evonne by 4 pm.

WED- UAC, 8:30 am, 398 AlderH.

FRI- BOWLING.....the Horticulture Department Holiday Bowling Party will be December 16 from 2-4 at the SPSC. You should have signed up by now. See Ken McNeil for any other questions. Free to all participants and free gifts. Happy hour will immediately follow bowling at Gabes by the Park, 991 N. Lexington Parkway (just east of Bandana Square). Evonne has reserved the west dining area for our group. Hors d'oeuvres from the menu are half price from 3-6 pm.

MISSING...a nice brown, high-back, stuffed swivel chair from the office of Dave Davis. With the waxing of office floors it was left too long in the hallway and has disappeared. Please return to room 334 or call Dave (4-9737) if you see it.

HELLO FROM SCOTLAND.....Roxanne and I have made it over and are starting to get settled in. I have started my job at the Scottish Crop Research Institute in Dundee as a raspberry/strawberry breeder. The job is great although Roxanne and I are a little home sick every now and then. Please pass along through the Twig Bender that we are doing fine. Please pass along our address, phone number and my email address as well. Thanks. Rick Harrison. Here it is: Invergowrie House, Flat 1, Invergowrie, Dundee DD2 1UA UNITED KINGDOM; home phone number is: 011-44-382-667358 (from US); work address is: Mylnefield Research Services, Ltd. Scottish Crop Research Institute, Soft Fruit Genetics, Invergowrie, Dundee DD2 5DA; email address is: R.Harrison@scri.sari.ac.uk; work phone is: 011-44-382-562731 ext. 2314 (from US); work fax is: 011-44-382-562426 (from US).

SAFETY INFO.....Worker Protection Safety Training will be held on Monday, December 12 from 10 AM to noon in 335 Borlaug. Please attend if you work or teach in the greenhouse. Mankato State University recently paid \$65,000 to the Minnesota Pollution Control Agency for safety violations. These violations included: 1) allowing methanol to evaporate in a chemistry laboratory vent rather than properly disposing of it as hazardous waste, 2) failure to inspect hazardous waste containers and storage areas for leaks at least weekly and to keep a written record of findings and inspection dates, and 3) failure to complete a program for training all employees who work with hazardous materials. Please ensure that you do NOT evaporate solvents in the hood. Dispose of them as hazardous waste. When starting a collection of hazardous waste, make sure that the container is plastic if the waste contains ANY WATER. Fill out the yellow University of Minnesota Hazardous Waste label at the TIME YOU START COLLECTING this waste material. You need to write your name, the date, a phone number Environmental Health and Safety (EH & S) can reach you at in case they have any questions about the composition of the waste, the contents of the waste (list names of components and percentages, pH of solution if acidic), our department number (2221), the building number for Alderman Hall (394), and your lab room number. While you are collecting waste, MAKE SURE THAT THE CONTAINER IS PLACED IN A SECONDARY CONTAINMENT VESSEL. When you want EH & S to pick up your hazardous waste, place your collection container in a box, pack absorbent material around the container, add stuffing material to keep the container from shifting in the box, tape up the box, mark arrows on the box to indicate which way the box should be held, and attach a completed Hazardous Waste Packing Manifest to the box. Fill out the form (DDC and CAS numbers can be found in Appendix 6 of the University's Hazardous Chemical Waste Management book), send the top copy to EH & S, and attach the bottom copy to your waste box. The manifest form, yellow hazardous waste labels, and the Waste Management book can be obtained from EH & S (7-4174). Cindy Tong

DIRECTED STUDIES.....there are several exciting landscape design projects available for winter quarter (1-3 credits each). Contact Brad Pedersen 624-7407 or his Waseca office 507-835-3620.

"After I die I want it said of me that I plucked a weed and planted a flower wherever I thought a flower would grow" Abraham Lincoln

TWIG BENDER

Volume 12, #40, 12-16-94, Editor: E. Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

CALENDAR/NEWS FOR DECEMBER 19-23, 1994

TODAY....Bowling Party from 2-4 at the SPSC. You should have signed up by now. See Ken McNeil for any other questions. Free to all participants and free gifts. Happy hour will immediately follow bowling at Gabes by the Park, 991 N. Lexington Parkway (just east of Bandana Square). The west dining areas has been reserved for our group. Hors d'oeuvres from the menu are half price from 3-6 pm. Be there or be square!

December, 1994						
S	M	T	W	T	F	S
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SUN- Channel 6 MCN, 9 am & 9 pm, Orchids: care of orchids and orchids as Christmas gifts.

MON- Cookie Exchange . . . 12-1:30, 394 AlderH. Bring 8 doz total. Wrap each dozen individually plus one dozen to share.

MON- Special Department Seminar, Minimizing discharge of drainage water from intensive greenhouse crops under semi-arid conditions using controlled recirculation, Dr. Michael Raviv, Newe Ya'ar Research Center, Haifa, Israel, 9:00 a.m., 394 AlderH.

DIRECTED STUDIES.....there are several exciting landscape design projects available for winter quarter (1-3 credits each). Contact Brad Pedersen 624-7407 or his Waseca office 507-835-3620.

TA OPPORTUNITY.....Hort 3001 needs a TA. This opportunity will provide a quality teaching experience. Contact Bud Markhart, 258 AlderH or 4-7705 ASAP.

LECTURE SERIES.....The Art of Specialty Gardens, sponsored by MN Landscape Arboretum and MN State Horticultural Society, major underwriting by MN Nursery and Landscape Association, co-sponsored by Inver Hills Community College, Hennepin Technical College, U of M/Extension Service. February 4 - April 8. Advance registration is required two weeks prior to program date. Heirloom Gardens, Feb 4; Growing Fruits in Minnesota, Feb 18; Our Gardening Heritage, Feb 25. To register by phone, call 645-7066.

MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for January, 1994
Call 443-2460, extension 106 for information

Jan 5-30 Arboretum Photo Contest Display, Snyder Bldg Balcony. Recapture the spirit of the gardens in January as you view entries, and winners, of the 1994 Arboretum Photo Contest. Amateur photographers submit their entries from the various seasons in five categories.

Jan 15 Weekend Discovery: Landscapes of Holland Slide Lecture, Peter Olin, 1:30-2:30. Free with paid gate admission.

Jan 16 Celebration of Plants Used in Different Cultures, Arb Auditorium, 10-noon. Free with paid gate admission.

Jan 22- Natural Wonders, Sundays through March 26 at 1:00 pm, Classroom # 2. Horticultural activities for the entire family. Free with paid gate admission.

Jan 25, 28 & Feb 1....Volunteer Information Sessions. Call 4433-2460 ext 346 to register.

Jan 29 Weekend Discovery: Photographic Journey of the Greek Islands Slide Lecture. Free with paid gate admission.

Classes:

Jan 28 Creating Topiaries With Herbs, 10-noon, \$30/35

Prices quote are for \$member/\$non-member.

MAP....Motorist Assistance Program. Next time you run into car trouble on the TC campus, call 625-6566.

MAROON & GOLD CASUAL FRIDAYS.....is an ongoing tradition so don't forget. The Goldy Gopher Prize Patrol just might surprise us with a visit. Some departments are even decorating their work areas in maroon and gold in anticipation of Goldy's visit.

CALENDAR/NEWS FOR DECEMBER 26-30, 1994

December 23 - University Floating Holiday
December 26 - University Major Holiday

December, 1994						
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<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>

LAB SAFETY TRAINING
MAKE-UPS - we finally got a copy of the safety video, "Practicing Safe Science". If you haven't already gone to safety training for this academic year, please view this video. You can borrow the video and get the Lab

Safety Training Record form you need to fill out from Kathy Lloyd. Please turn in your forms to Cindy Tong after you fill them out. Names of people who haven't been trained will be forwarded to supervisors and Gary Gardner after January 11. Cindy Tong

ADVANCE....the COA will be preparing the Spring 1995 issue of 'Advance', the alumni newsletter. I'll be gathering items from the department for submissions. If anyone has information concerning NEW news in teaching, research, and/or extension, please give me a draft by January 9, 1995. Thanks. Laura.

The Mystery of Winter
Hal Borland

Maybe one doesn't have to live in the country to appreciate winter, but it helps. Winter has many dimensions, and unless one can stand on a hilltop or walk up a valley stripped to simple fundamentals, one misses some of them. Winter is more than a season bounded by a solstice and an equinox, more even than snowstorms and icebound rivers and winds whopping down from the frozen arctic tundra. It is primitive forces at work, cleansing and scarifying the earth, but it is also beautiful and awesome and full of wonder. It rounds out the year, makes it whole; and, in human terms, it takes the edge off human arrogance at the same time that it makes the countryman proud of his own competence. In a sense, it makes the man who lives with winter whole again, too.

The world is wider than a cornfield or a city block and the sky is higher than a silo or a skyscraper, and a man needs a time and he needs a place to realize it. A man needs a winter hilltop....

No one can live close to the soil and refuse to participate. First principles are involved, and you ignore them at your peril. If you would be warm and fed in winter, you must know the summer's sweat and muscle-ache. The truth of cause and effect is written across every day and every hilltop. You are a part of this world; your blood is a freight of hemoglobin in a stream of ocean brine, and the hemoglobin is only an atom or two removed from the green chlorophyll in a leaf. Your pulse is as insistent as the rhythm of the days and the seasons. You are of the earth and the universe. You can't resign. You know that you are more than an integer in the census statistics, more than a dot on a population chart. You are a sentient human being still capable of wonder.

I sometimes think, on a winter evening, that winter was patterned into the year not only to give the earth a time of rest but to urge man to catch his breath and accept this world, whole and round and complete. Winter is completion, the inevitable complement of summer. When I look out upon the world after the first snowfall I always think that it is brand new, another kind of genesis, innocent and waiting for new and better transcriptions. Not only is the clutter and litter of autumn hidden and simplified, but the whole scene of man's argument and confusion is cleansed and made briefly immaculate. All things are possible again. Even wisdom. Even understanding.

Yet I know that winter is both change and time, time forever flowing. It is yesterday maturing into tomorrow. Even the autumn debris in the woodland which winter clothes and simplifies is the latent humus in which tomorrow's trees must sprout and grow. Winter is the dormant bud upon the bough, the berry committed to the waiting seed, the insect in the fertile egg. It is the fundamental miracle of the year, another cycle in the eternal rhythm of which we all partake.

HAVE A HAPPY HOLIDAY



CALENDAR/NEWS FOR JANUARY 2-6, 1995

- January 2 - University Holiday
 January 3 - FCC, 2-3:30 (398)
 January 4 - UAC, 8:30-10:30 (398)
 Seminar 3:30 pm, 415 AldH, *Botanic Garden Management*, Peter Olin, U of M Landscape Arboretum
 January 5 - Hort 8066 Discussion 4:05 pm, 394 AldH, *Identification of Quantitative Trait Loci for European Corn Borer Resistance* by Paul Richter

January 1995						
S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Congratulations to Lori Czynscon who won a \$500 scholarship from the sixth district Sherburne Co. Minnesota Horticultural Society just recently.

There has been a new *Threat Assessment Group*

created on campus. Administrators and supervisors should call 627-4335 for consultation assistance if they believe there is an emerging potential threat to someone's safety. Everyone else should call 911 to report violence.

Look out **Brian Smith!!** The horticulture department has been given the opportunity to grow a tomato that weights more than 7 lbs. 12 oz. and win \$200,000 for doing it. The offer is being made by Miracle-Gro Plant Food and NK Brand tomato seeds. So let's get going. We have until December 31, 1995 to produce this monstrous tomato.

The College of Agriculture has hired Lynn Perkins as the new High School Admissions Counselor starting the first of the year. She has an extensive background in the extension education field and is a graduate of University of Wisconsin. Lynn will be meeting with various faculty members to learn about our majors, etc. If you would like to be included in her visits, call Annette Day at 624-4748.

A new Women's Issues Group will meet Tuesdays from 5:00-6:30 p.m. in 190 Coffey Hall. If you would like to join, call Beth Carlson at 625-3115 to schedule an intake interview (beginning January 1).

Requests for Preproposals-FY 1995 for the Pesticide Reduction Options (PRO) of the Agricultural Utilizations Research Institute are underway. Grants of up to \$30,000 to fund projects which minimize use of and contamination from pesticides on Minnesota farms are available. Approximately \$180,000 is available under Round II. The grant funds are made available from the pesticide regulatory account by the Minnesota Legislature. The deadline for submission is January 10, 1995. Call Marcia Schutt (612)223-8205 if you have questions.

The initial meeting of the COVER CROP TASK FORCE is on January 9, 1 pm in 408 Hayes Hall. Any one interested in this topic is invited to attend and brainstorm on the problems and opportunities of using cover crops.

The Minnesota State Horticultural Society has new telephone numbers as of January 5, 1995. The Garden Question Line will be (612)643-3652. The Office will be 643-3601. Also we are seeking a well-organized person with excellent communications skills to serve as Receptionist & Membership Services Secretary. This is a full-time, permanent position. Please send resume, with salary requirements by Friday, January 13, 1995, to Personnel, MSHS, 1755 Prior Avenue No., Falcon Heights, MN 55113-5549.

There is a competition starting in rec sports called **Operation Activity**. The basic premise of the program is to provide an opportunity for faculty and staff to meet their personal fitness goals with a flexible fitness program. Participants must be current rec sports members but may conduct their activity session outside the recreational facilities. The team theory increases program adherence by distributing the responsibility of the teams success equally to all team members. Team scores are reported on a weekly basis and posted in the lower fitness center and weekly updates will be sent to each team captain. Valuable prizes will be awarded and you must participate in teams of five individuals. The program is starting January 15. See the twig bender editor for a registration form or call Lynda Johnson, Fitness Director, at 625-0741.

Be sure and read your new Voice Mail user guide.

HAPPY NEW YEAR