

twig bender

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Volume 8 - #29 -- July 20, 1990
Editor: Evonne Kuyper

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

WELCOME to Dr. Gary Gardner, our new department head. Please feel free to stop in and say hello. Evonne Kuyper (4-4242) is working with Dr. Gardner as his secretary. If you wish to schedule an appointment with Gary, please see Evonne.

VACATIONS.....

July 23-27 - Kathy Lloyd (Happy Birthday on the 25th)
July 19-29 - Roger Meissner
July 30-Aug 10 - Laura Kalisch

2ND SUMMER SESSION...July 19-August 22. Grades for 1st summer session were due to Admissions today, July 20. (Reminder from Evonne)

RETIREMENT PARTY for Ken Vogel, who has been with the Arboretum for 22 years, will be on Friday evening, August 3. An invitation is extended to all Horticulture staff and faculty. (Memo from Peter Olin)

ATTENTION GARDEN PLOTTERS....Please remember that parking is allowed only behind (west side) the white nursery shed. Be sure to maintain the perimeters of your garden, weeds are becoming a problem in some areas. Try to keep your plots from overtaking the aisles and keep up the good work, the plots are better than ever! (KS)

ADVISORY COMMITTEE of the Hill Visiting Professor Program invites regular applications for visiting professor support in liberal studies for the academic year 1991-92 and preliminary applications for 1992-93 and 1993-94. The anticipated level of funding will permit awards equivalent to five or six professorships (full-time for one quarter) per year. Departmental, program, and center applications should be submitted to the Graduate School, 325 Johnston Hall, on or before October 22, 1990.

FORGET....don't forget to sign your FAX machine receipts!

LOST...a 35 mm camera, a pair of work shoes (in or around the Hort Greenhouse). Contact Leonard Hertz, 354 AlderH (4-3665).

FOR SALE....three large freeze driers (Northstar brand). Contact Felicia McCann 635-0818.

MOURNING the lost of Dr. Francis deVos. Word received from the Arboretum that he passed away July 18. Complete obituary in the July 20 Star Tribune.

'LES MISERABLES'.....Mark Brenner has a few opening night tickets available. Ordway is the place; August 7 and \$44.50 each. Call Mark at 6-0309.

ANNUAL REVIEWS...Laura Kalisch warns CS employees and supervisors that your annual review evaluation forms should be completed and returned no later than August 13.

GREENHOUSE will be fumigated on Sunday evening, 7/22.

POSITION ANNOUNCEMENTS

Instructor, Youth Education, Minnesota Landscape Arboretum, bachelor's degree required, deadline 7/30/90.

Assistant Director, Hawaii Institute of Tropical Agriculture & Human Resources, Ph.D., deadline 9/14/90.

Director of Science, Stewardship & Registry, The Nature Conservancy, Iowa Field Office, DesMoines, advanced degree & experience.

Farm Advisor-Vegetable Crops, Riverside County, University of California. An academic career track appointment, deadline 8/29/90.

Technical Specialist, Agriculture.....
Appropriate Technology Transfer for Rural Area (ATTRA), MS, deadline 8/24/90.

For more information regarding the above employment opportunities, see the **Employment Opportunities book located above the graduate student mailboxes.**

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Volume 8 - #30 -- July 27, 1990
Editor: Evonne Kuyper

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

SPECIAL PUBLIC LECTURE....Dr. Charles E. Hess, Assistant Secretary, USDA, "Challenges for the U.S. Research Enterprise", August 6, 1990, 9:00 a.m., Casino Ballroom, St. Paul Hotel, Plenary Session - PGRSA.

VACATIONS.....

July 30-Aug 10	-	Laura Kalisch
Aug 2,3	-	Fernande Rogers
Aug 6-8	-	Angie Klidzejs

RETIREMENT PARTY for Ken Vogel, who has been with the Arboretum for 22 years, will be on Friday evening, August 3. An invitation is extended to all Horticulture staff and faculty. (Memo from Peter Olin)

HAPPY BIRTHDAY to our new boss on August 1 (from the office staff).

FORGET....DO NOT forget to sign your FAX machine receipts!

TWIG BENDER has a mailbox located at the end of the civil service area....place your articles in it and be sure to sign your name to your article.

'LES MISERABLES'.....Mark Brenner has a few opening night tickets available. Ordway is the place; August 7 and \$44.50 each. Call Mark at 6-0309.

MEMO from Peter Olin to all Horticulture & Arboretum Staff: As you know Francis died on Tuesday, July 17. A card at the Lobby desk for all to stop by and sign. "Francis was developing a new project during the last five years, a horticulture curriculum and garden at the Sandhill Community College in Pinehurst, NC. The family has asked that memorials go to that garden. In keeping with the family's wishes, and after consulting with the mini-staff and others, I have committed the Arboretum to send plants of several of our introductions to the Sandhill Garden to be planted in his memory. I will be talking with the head of that garden to determine what they might like. Further, after discussion with the DeVos family and several Arboretum staff, we have decided to ask that memorials for Francis be dedicated to endowing an internship at the Arboretum for a promising student. Francis was deeply interested in education and this would be a fitting honor".

VOICE MAIL TRAINING sessions have been scheduled for Thursday, August 23. The first session will be from 10:00 to 11:30 a.m. and the second from 1:00-2:30 p.m. in room 377 McNeal Hall. Please be sure to sign up for one of these sessions with Kathy Lloyd...it is extremely important that everyone using the system knows how. If you don't make it to one of these sessions you will have to go to the Minneapolis Campus for training.

SCIENCE MUSEUM OF MINNESOTA is building a new exhibit laboratory facility to better introduce museum visitors to laboratory science. To help defray start-up and initial operating costs, they are seeking donations of used, old, or outdated laboratory equipment and glassware. **NEEDS LIST** includes beakers, flasks, spatulas, graduated cylinders, mortar & pestle, bunsen burners, alcohol burners, ring stands, clamps & holders, chemical storage bottles, rings, test tube racks & tongs, funnel, thermometers, stirring rods, large volumetric flasks, rubber stoppers, watch glasses, magnifying lenses, small pipettes/eyedroppers, pipette bulbs, tweezers/forceps, scalpels, carboys, drying oven, incubator, hotplate/magnetic stirrer, blender, microscopes, still, scale or balance, pH meter and/or anything else you can think of. Contact Heidi Hohmann, Laboratory Programs Specialist, Interpretation Department, 221-9441.

POSITION ANNOUNCEMENTS

Graduate Assistantships available at the University of Tennessee, Department of Ornamental Horticulture & Landscape Design. Stipend of \$7500.

Crops & Soils Agent, Clark County, University of Wisconsin-Extension, MS required.

Vegetable Crop Research Scientist & Extension Specialist, Southeast Research/Extension Program, Rocky Ford, Colorado.

Assistant County Agent, Alabama Cooperative Extension Service.

Research Associate, Turfgrass Science, Horticulture Department, Colorado State University, Fort Collins, Colorado.

****For more information regarding the above employment opportunities, see the Employment Opportunities book located above the graduate student mailboxes.****

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Volume 8 - #31 -- August 3, 1990
Editor: Evonne Kuyper

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

DATE/TIME
August 6-10

Monday - 9:00 a.m., Casino Ballroom, St. Paul Hotel, Plenary Session - PGRSA, Special Public Lecture by Dr. Charles E. Hess, Assistant Secretary, USDA, "Challenges for the U.S. Research Enterprise".

Wednesday - Grape Breeding Seminar...an informal seminar/discussion period will be held August 8 at 2:30 in 394 Alderman Hall. The speaker is Dr. R. Eibach from the Federal Grape Breeding Station at Geilweilerhos West Germany. Dr. Eibach's topic will be "Breeding Grapes for Cold Hardiness and Disease Resistance".

VACATIONS.....

July 30-Aug 10 - Laura Kalisch
Aug 6-8 - Angie Klidzejs

VOICE MAIL TRAINING sessions have been scheduled for Thursday, August 23. The first session will be from 10:00 to 11:30 a.m. and the second from 1:00-2:30 p.m. in room 377 McNeal Hall. It is extremely important that everyone using the system knows how. Kathy Lloyd has the sign up and it is filling up fast. Don't procrastinate, see Kathy Lloyd immediately. If you don't make it to one of these sessions you will have to go to the Minneapolis Campus for training.

INTERIM Assistant Department Head...in the Department of Entomology will be Mark Ascerno. Mark will handle all regular duties of the dept head but R. Jones will continue to be in the office on Thursdays and Friday.

WELCOME NEW PEOPLE....Lisa Darmo is a post doctoral associate with Mark Strefeler working with gene flow in native plants and fuchsia heat tolerance. She is originally from the Jersey area, got her PhD in May 1990 in plant breeding/plant genetics with Stan Peloquin at the University of Wisconsin-Madison. Stop by her office, room 260 Alderman, and get acquainted.

Steven Lund, originally from Cherry Hill, NJ is a research assistant with Dr. Hackett working on a tobacco rooting project. He's got a Bachelors in forestry from Michigan State and his MS in forest resources here at Minnesota. Steve's office is room 266 AlderH.

Marc Harper has been admitted for a PhD degree and working with Bud Markhart on rose stress physiology. He earned a BS and MS from University of Wisconsin-Eau Claire in Biology. Marc can be found getting settled in room 452 Alderman.

Check out these new faces and give a welcome. I see other new faces and would welcome some information for the Twig. Remember the Twig mailbox in the back hallway.

GRADUATE Student Officers 1990 are:

President - Karl Sauter
GSC Reps - Kathleen Daniels
Baolong Zhu
Penny Aguirre

Council of Graduate Students - Doug Foulk
Rep to faculty meetings - Dan Krueger
Seminar Rep - Jim Busse
Computer Committee Rep - Paul Johnson
Alderman Project Coordinator - Maria Janssen
Social Comm. Rep - Jim Busse (volunteered)

Self-Appointed Horticulture Social Committee Members (K.Lloyd, E.Kuyper, J.Busse, E. Stadelman, M.Strefeler, J.Erwin) are planning a department summer picnic on August 29 at Como Park. Brats/hot dogs, pop will be served for \$2.00/person (kids free) plus bring a dish

to share. BYOB. Put that date on your calendar NOW and stay tuned throughout the month for more details.

The fund to cover the cost of paper supplies, food & beverages, flowers for members of the department is not healthy. Please contribute your suggested \$.50 per \$1,000 of salary to Kath Lloyd.

GOING AWAY PARTY for Jim Sleezer will be picnic style lunch on August 13 at noon at the Margot picnic shelter (Arboretum). Jim and Kathy Sleezer will be going to College Park, PA. It'll be a corn roast with hot dogs and brats. Contributions of salad or goodies are accepted. There will be a minimal cost is they have to buy corn. Mary Hartung is collecting donations for a gift. (Memo from P. Olin)

POSITION ANNOUNCEMENTS

Assistant/Associate Professor, Department of Biological Sciences, University of Nevada, Las Vegas.

Research Specialist in Life Sciences, University of Illinois at Urbana-Champaign.

For more information regarding the above employment opportunities, see the Employment opportunities book located above the graduate student mailboxes.

MINNESOTA ZOO in Apple Valley is advertising for a horticulturist for planning and maintenance of their tropical and interior landscapes. Pay scale looks very good. See Deb Brown in room 158 Alderman for more details. (Must have experience with tropical interiors.) Applications accepted through August 31st. (Submitted by D. Brown)

ATTENTION FACULTY...Associate Dean/Director of Instruction, College of Agriculture, University of Minnesota. Posting located in 305 Alderman Hall.

TEST KITCHEN USERS...please lend a helping hand to keep the kitchen clean and tidy. If you use dishes/silverware, place it in dishwasher to reduce risk of unsanitary tableware. Please help by emptying dishwasher when dishes are clean. Remember to wipe off counter after dining and to clean up spills. Throw away bags and unwanted containers. Recycle glass, plastic, and paper when possible. Please reclose cupboards and drawers. Put things back where you found them. Neither your mother nor Shirley are here to clean up after you anymore. Thank you. (Submitted by M. Stahler)

have a good one!

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Volume 8 - #32 -- August 10, 1990
Editor: Evonne Kuyper

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

DATE/TIME
August 13-17

- MON - Consultative Committee meets at 3:00,
398 Alderman
TUE - Hort Faculty Meeting, 8:30, 394
Alderman
Greenhouse Committee, 3:00, 398
Alderman
THR - Field Day in the Valley - E. Grand
Forks

VACATIONS.....

Aug 17,20-21 - Angie Klidzejs

VOICE MAIL has been a popular subject this past week with Kathy answering as many questions as she can. Now you realize why the training sessions are so important. They have been scheduled for Thursday, August 23. The first session will be from 10:00 to 11:30 a.m. and the second from 1:00-2:30 p.m. in room 377 McNeal Hall. Kathy Lloyd has the sign up and it is filling up fast. Don't procrastinate, see Kathy Lloyd immediately. If you don't make it to one of these sessions you will have to go to the Minneapolis Campus for training.

TO EVERYONE IN THE DEPARTMENT... (from J. Carter)... My chair dresses up the living room, and already has become my favorite reading spot. Often when I sit in it, a warm, cozy feeling comes over me and I remember some of the things we accomplished last year. Thank you all!

WELCOME NEW PEOPLE.... Erica van Dijk is from the Netherlands and working as a Jr. Scientist with Peter Ascher. She has been in Minnesota since March of 89 and has previously worked in Agronomy with Alfalfa (Carroll Vance) and 6 months in the GCB department with Alan Hooper. She has a bachelors in the Plant Sciences. You'll find her in room 270. Say hello.

Paul Bucciaglia has been work in Dr. Alan Smith's lab since March. He has a bachelors in Plant Science from the Pennsylvania State University and is working towards a Ph.D. in Genetics. He is currently studying beta-1,3-glucose enzymatic activity and gene expression in tomato anthers. His office is 380. Stop by.

VANDALISM ALERT...The May to September period is associated with more frequent incidents of vandalism in the Experiment Station field areas at the St. Paul Campus. Thus far in 1990, equipment damage has amounted to several thousand dollars and at least one experiment has been damaged. Awareness and self-help play a significant role in deterrence. Please help us by promptly reporting to the University Police Dispatcher (624-7828), or police in the local community, suspicious activity in the fields area during evenings and weekends. Also, alert people who you know are involved in research in the fields.

ALIAS...Monday Night Seminar now Thursday Afternoon Discussion will be meeting Thursdays during winter quarter from 4:05-4:55 in room 394. If you have a research proposal that you wish to present or topics for discussion, please let Alan Smith know so the winter schedule can be finalized. A few prime spots are still available on a first come first serve basis.

SOCIAL NOTES CORNER...August 29 (Wednesday) is the Hort Picnic at Como Park. Brats/hot dogs, pop will be served for \$2.00/person (kids free) plus bring a dish to share. BYOB. Let Kath L know (in main office-624-4742) and pay her, we need a count. Reservations by August 27 please! Games for adult-size and kid-size KIDS. Como Park is a neat place with zoo, Conservatory Gardens, lake with peddle/paddle boats. Plan to enjoy all.

UNIVERSITY STORES will host its 4th Annual Open House on September 12 and 13 from 10-4 p.m., at 2901 Talmage Avenue S.E. Get ahold of the theme this year "Don't waste our 'U', Reduce, Recycle, and Reuse." Come meet the staff, visit 40+ scientific and general supplies vendors and enjoy free food. Door prizes also so don't miss it.

ASSISTANT PROFESSOR, Department of Horticulture and Landscape Architecture, Washington State University, Pullman. Minimum of MLA, MSLA or other terminal degree in a closely related field with at least one degree in landscape architecture. Closing date revised to August 13.

EXTENSION ECONOMICS & ASSISTANT/ASSOCIATE PROFESSOR, Dept of Agricultural Economics & Rural Sociology, Auburn University, AL. Closing date: 9/30/90.

EXTENSION ASSISTANT PROFESSOR-Seed Potato Specialist, Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, Idaho.

ENDOWED CHAIR in Molecular Genetics Applied to Crop Improvement, Department of Agronomy & Plant Genetics, U of M. Closing date revised to 10/31/90.

ENVIRONMENTAL PLANT PHYSIOLOGIST, Statewide Air Pollution Research Center, University of California-Riverside. Closing date: 9/30/90.

POSITION ANNOUNCEMENTS**For more information regarding the above employment opportunities, see the Employment opportunities book located above the graduate student mailboxes.**

Have a good week!

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Volume 8 - #33 -- August 17, 1990
Editor: Evonne Kuyper

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

DATE/TIME
August 20-24

Happy Birthday...Laura Kalisch (this is her last year of 30 something (August 19).

WED - CORN FEED, Greenhouse classroom, 12 noon. Corn, plates, butter, salt provided. You bring the sandwich...

or the presents, candles & birthday cake for Martha and Evonne. Happy Birthday to us girls (August 22).

VACATIONS...

August 20,21 - Angie Klidzejs
 Holly Ward
August 24,27 - Evonne Kuyper
August 27-31 - Martha Piechowski
 Fernande Rodgers
August 30,31,Sept 4 - Laura Kalisch
Sept 4,5 - Kathy Lloyd
If you need one of us, leave a message on our voice mail!

I know you're tired of hearing the words VOICE MAIL....but training sessions are scheduled for Thursday, August 23. The first session will be from 10:00 to 11:30 a.m. and the second from 1:00-2:30 p.m. in room 377 McNeal Hall. Sign up with Kathy Lloyd immediately. If you don't make it to one of these sessions you will have to go to the Minneapolis Campus for training.

PHOTOGRAPHER(S) will be around to take pictures of the new faculty, staff, and post-docs for the rogues' gallery on Thursday, September 13. Stop by Kathy Lloyd's desk and reserve a time slot by 9/7/90.

HAZARDOUS Chemical Waste Management Guidebooks will be available for distribution in Fall 1990. Please contact 627-4166 to be added to the distribution list.

NEEDED...lab coats (writes John Masengarb, Dial U Clinic). "An amateur play that I'll be in has two characters that work in a research institute. One is a dedicated researcher (his coat should be well used) and the other is the director (his coat is spotless). Could anyone loan us either or both? We'll take two clean ones if you'll let us make one look dirty (but we'll return it clean). Please let me know soon (4-5353). We need them before Labor Day and can return them after the 15th of September. Thanks.

DUST PROBLEM...Dr. Baker (Soil Science), who supervises the weather station, urges that we keep down vehicle speed when trucking by that facility.

NEW STUDENT ORIENTATION will start next week and run through September 7. The COA plans to include student work opportunities as part of the agenda. If you plan to hire student employees in the near future, this is a good time to advertise the positions, particularly if you want to hire agriculture students. Please let the accounting office know if you have jobs to post.

DAISY TRAVEL can book round trip airfare to the Agronomy meetings in October for \$167.00. Seats are limited so call Evonne (not Kuyper) at 481-1660 as soon as possible if you are interested.

SOCIAL NOTES CORNER....indicates that flyers for the Hort Picnic on August 29 will be in your mailboxes SOON. The committee realizes it's still early but your response hasn't been....

LOST-set of keys found in field-see Kathy.

PURCHASING NOTICE...please remember to turn in packing slips from your supply orders ASAP. Packing slips should be checked, signed and dated. University Stores packing slips may be placed in Cyndee Christensen's mailbox. Non-university vendor slips go to Fernande's mailbox. This is very important as it will assure that vendor payments are processed in a timely manner. FFI call Fernande (4-1284).

For more information regarding these positions, see the **Employment Opportunities Book. The undergraduate positions are posted on the bulletin board in the front lobby.

Have a good week!

MORE PURCHASING NEWS from Fernande...Whatman Inc. laboratory products can no longer be ordered directly. Alltech, Baxter, Cole-Parmer, Fisher, Curtin Matheson and VWR are among the companies which are now distributing Whatman products. Call 4-1284 if you have questions.

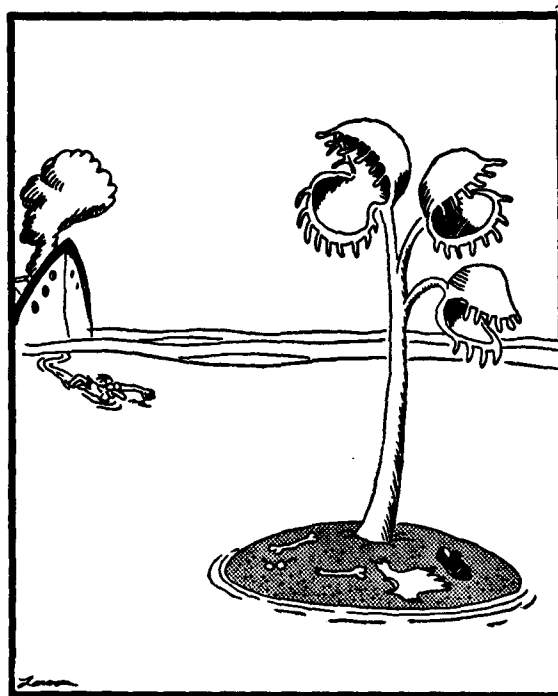
POSITION ANNOUNCEMENTS

HORTICULTURAL SOCIETY is seeking a publications/membership promotion coordinator to produce organizational newsletters (2 per month) and promotional pieces. Individual would also assist in membership promotion programs and activities. (15 hours/week; \$6.25/hour) Position requires a degree in English, public relations, journalism, or comparable experience. Experience and access to desk-top publishing. Experience in graphic design and marketing desirable. Home office needed; personnel computer desired. Application deadline is August 19, 1990. For more information/forward resumes to: Daniel Holmquist, Minnesota State Horticultural Society, 161 Alderman Hall, 1970 Folwell Avenue, St. Paul, MN 55108 (612-624-7752).

EXTENSION WEED SPECIALIST E-2/ASSISTANT WEED SCIENTIST, Washington State University, Mount Vernon.

VITICULTURE ADVISOR, State Fruit Experiment Station of Southwest Missouri State University, Mountain Grove.

TISSUE CULTURE/GREENHOUSE TECHNICIAN, part-time, The Pillsbury Company, Minneapolis, MN. This position would be ideal for a horticultural undergraduate interested in gaining greenhouse and tissue culture experience.



TWIG BENDER

Volume 8 - #52 -- January 4, 1991
Editor: Evonne Kuyper

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

MON & TUE - Minnesota Nursery & Landscape
Association Convention at the
Minneapolis Convention Center

TUE - Faculty Meeting, 8:30 a.m., 394 AlderH

WED - Departmental Coffee Hour, 9:30 a.m.,
394 AlderH

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

THR - Hort 8066 - IN SEARCH OF
MICROTUBULE-ASSOCIATED
PROTEINS by Greg Kerr, 4:05 p.m., 394
AlderH

FRI - Plant Hardiness Discussions, 12:00
noon, 398 AlderH. Paul Li

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ATTENTION: it's important that faculty remind
their students and advisees that beginning
Winter Quarter, students now have only 2
weeks in which to drop a course, whereas in
the past it was 6 weeks.

* * * * *

GREENHOUSE NEWS
Winter Quarter, 1991
Roger Meissner

SECURITY...All doors leading to the outside of
the greenhouse facility will be locked at 4:30
p.m. on weekdays and at all times on
weekends and holidays. The entry door on the
northwest end of the headhouse will now be
locked at all times. The custodial department
will unlock the door by the classroom entrance
at 7:00 a.m.

DEPARTMENT VEHICLES...it's wintertime and
that means the cold weather has returned.
Please make sure when returning the vehicle
that there is at least a half tank of gas and
remember to plug it in. Report any problems
with the vehicles to Roger.

PESTICIDE UPDATE....starting December 1,
1990 and continuing until further notice, all
pesticide measuring and weighing will take
place in room 198AB (former seed prep room).
An updated book containing MSDS will be kept
in this room also. You will also find a log
book which will need to be filled out every time
you use this room. Weighing and measuring
of fertilizer will still be carried out in room 194.

POP MACHINE....the U of M Vending Services
has delivered a much needed pop machine.
It is located at the north end of the headhouse.

GREENHOUSE INSPECTION....there will be a
monthly inspection of the greenhouse facility by
the greenhouse committee. Projects will be
responsible for keeping their section clean at
all times. All non-plant material must be stored
outside of the growing range. Projects will be
given a written notice if there are any problems
with their section. If you have questions,
contact Don White or Roger Meissner.

GREENHOUSE SPACE CHARGES (\$)....starting
January 1, 1991, projects will be charged at a
monthly rate of \$50.00 per section, which is
equivalent to .70 per square foot of growing
space. This charge covers miscellaneous
greenhouse supplies, fertilizer, pesticides, soil
media, physical plant labor, and greenhouse
student labor. Please take note.

Please read the TWIG and check the bulletin
board in the greenhouse workers lounge (GWL)
for further information and updates.

TWIG BENDER

Volume 9 - #1 -- January 11, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR January 14-18

MON - "Time Out" Convocation on St. Paul campus from 11:45 to 13:40. Classes cancelled during that time. (See article)

WED - Departmental Coffee Hour, 9:30 a.m., 398 AlderH. Treats by Kath Lloyd. Changed to mornings due to popular request.

Undergraduate Affairs Committee, 9:35 a.m., 423 AlderH.

Departmental Seminar - none

THR - PRELIM EXAM all day - Graduate students pick up question from Evonne Kuyper between 8-4, room 394 AlderH.

Hort 8066 - Discussion of 11/15 prelim exam question with Drs. Bert Swanson, John Erwin, Don White and Carl Rosen, 4:05 p.m., 394 AlderH.

FRI - Plant Hardiness Discussion, 12:00 noon, 398 AlderH. Paul Li.

On January 14, 1991, the University community will have an opportunity and responsibility to collectively address the problem of racism during a "Time Out" Convocation. In order that all students and faculty may participate in the Convocation, classes held during the 12:20 to 13:10 hour on the MPLS CAMPUS and the 11:45 to 13:40 hours on the ST. PAUL CAMPUS will be cancelled. Kuhl's memo states: "I regret the necessity to cancel classes. However, it is imperative that the University community sends a clear and forceful message that it abhors racism and is united in its efforts to eradicate it." The Convocation will be held at Northrop Auditorium (televised). On St. Paul Campus, you can view it in the Green Hall Auditorium or the SPSC Theatre.

Dr. Richard Jones has accepted an offer to become the next Dean of the College of Agriculture, contingent upon approval by the Board of Regents. His appointment will be effective immediately. Welcome Dr. Jones.

WELCOME NEW PEOPLE....Dr. Colin Willmer from the Department of Biology, University of Stirling, Stirling, Scotland is working with Dr. Stadelmann on the membranes of the guard cells of *Commelina communis*, a plant closely related to *Tradescantia* (Wandering Jew). His visit here will be for about one month.

On January 28, the 2nd annual Biological Forum Symposium entitled "Licensing Biological Technology" will be held at the Earle Brown Center. The symposium will deal with issues that are extremely important for scientists in plant and animal biology and biological process technology to understand in order to make new technology and products available to potential users. A fee of \$25 covers both lunch and dinner. Hort graduate students are encouraged to attend. To apply for support, graduate students are encouraged to turn in their requests to Bud Markhart (DGS) by January 20 for the Graduate Studies Committee to review.

Dr. Jim Bartz had surgery on January 9. It went well and he is recovering in an ice shack up by Alexandria.

CALENDARS....there are two remaining 1991 Minnesota Gardening calendars to be sold. See Kath Lloyd (\$5 each).

Dr. Bert Swanson was placed in the MNLA's Hall of Fame. Congratulations.

POSITION ANNOUNCEMENTS

Greenhouse Manager, Department of Horticulture, Colorado State University, Fort Collins, Colorado.

Research Viticulturist, Department of Horticulture, Colorado State University, Fort Collins, Colorado.

Assistant Research position, Research Station, Sturgeon Bay, University of Wisconsin, Madison, WI.

See Employment Opportunities Book

The Growth Chamber Committee would like to advertise, until further notice, these available temperature controlled units.

Chamber Space Available

Growth Chambers

<u>Location</u>	<u># Available</u>	<u>Cost/Mo</u>	<u>Size Ft²</u>	<u>Temp.Range</u>
Alderman Hall	1	\$ 50.00	14	
Alderman Hall	2	\$ 35.00	7	
Greenhouse	1	\$ 50.00	14	
Greenhouse	3	\$ 40.00	\$24.00	

Incubators

Alderman Hall	2	\$ 20.00	multishewed	
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Coolers

Greenhouse	1	0		32-50
	2	0		24-45

Contact: Dave Olson, room 137 Alderman Hall, call 4-4276.

TWIG BENDER

Volume 9 - #2 -- January 18, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR January 21-25

MON - University Holiday

WED - Departmental Coffee Hour, 9:30 a.m.,
394 AlderH. Treats by Laura McCann

Departmental Seminar - Use of a leaf disc assay to study cold acclimation in juvenile and mature phases of *Hedera helix* L. by Joni Stapfer, graduate student, Horticultural Science

Hort Club meeting, 5:00 p.m., 394 AlderH

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

Hort 8066 - Mate discrimination and crossability in native and exotic *Lythrum* species. by Neil Anderson, post-doc, Horticultural Science

FRI - Faculty Consultative Committee, 8:30 a.m., 398 AlderH

Plant Hardiness Discussion, 12:00 noon, 398 AlderH

MEMORandum distributed this week indicates that Dr. Li had surgery on his leg to remove a blood clot. He is in Fairview Hospital. News today (1/18) indicates he is doing fine and will be released at the beginning of next week.

CIVIL SERVICE employees are invited to take note of information from the Bureau of Mediation Services concerning up-coming clerical bargaining unit election plus a list of all eligible voters. The list is posted in the back hallway bulletin board in the Civil Service section for your perusal.

ASHS abstracts deadline is February 1.

NEW baby boy (Daniel) born to Laura and David Minsk. Congratulations!

On January 28, the 2nd Annual Biological Forum Symposium entitled "Licensing Biological Technology" will be held at the Earle Brown Center. The symposium will deal with issues that are extremely important for scientists in plant and animal biology and biological process technology to understand in order to make new technology and products available to potential users. A fee of \$25 covers both lunch and dinner. All are encouraged to attend. Hort graduate students are encouraged to apply for support. Turn in your request to Bud Markhart (DGS) by January 22 for review by the Graduate Studies Committee.

INTERRUPTION of building steam service, St. Paul Campus for annual plant maintenance to occur between 4:00 a.m. and 10:00 p.m. on Sunday, May 5, 1991 and same time on Sunday, May 3, 1992. If there are concerns, please call Juan Bartolomei immediately, Physical Plant, 625-4372.

POSITION ANNOUNCEMENTS

Program Director, Conflict & Change Center, CURA, 330 Hubert Humphrey Center, West Bank Campus, University of Minnesota.

Research Assistant, Horticulture, Forestry, Landscape & Parks Department, South Dakota State University, Brookings, SD

See Employment Opportunities Book

WEEKLY CALENDAR CORRECTIONS
February 4-8

WED - Departmental Seminar - Plant Hybrid Zones by Dr. Patrice Morrow, Department of Ecology, Evolution and Behavior and Department of Plant Biology, University of Minnesota, 16:05-16:55 p.m., 415 AlderH

THR - Hort 8066 - The Land Grant University by Karl Sauter, 16:05-16:55 p.m., 394 AlderH

* * * * *

For Immediate Release by Lisa Taylor Lake, 612-443-2460.....MINNESOTA LANDSCAPE ARBORETUM offers flower and garden events. Gardeners weary of the winter scene are invited to a variety of travelogues and classes during February at the Arboretum.

Three travelogues are on Sundays from 2-3 p.m. in the Snyder Building Auditorium. Their titles and the speakers:

Feb. 3, "The Horticulture of Holland," by University Extension Horticulturist Mervin Eisel. He'll show the world's largest flower market in Aalsmeer, the Keukenhof landscape gardens, specialty nurseries and more.

Feb. 10, "All Around Kuauai, Hawaii," by Extension Assistant Horticulturist Mike Zins. He'll emphasize native landscapes of this region.

Feb. 17, "English Gardens," Peter Olin, Arboretum, Director. His program will cover picturesque English gardens and landscapes from early and contemporary times, and the work of famous gardeners.

Travelogues are free (although non-members must pay the \$3 gate fee at the gatehouse or reception desk), and no reservations are needed.

Two classes will brighten the winter days.

Feb. 9, 10-noon, "Orchids in the Home". They can be a durable, rewarding houseplant, with some blooming for a month while others offer repeat blooms. Topic will include information about light, water, temperature, soil and fertilizer needed to successfully raise orchids. Instructor, Sandy Murphy, operates a commercial orchid nursery and is active in orchid organizations. Class fee is \$7 for Arb members; \$9.50 for no-nmembers.

Feb. 12, 1-3 p.m., "Flowers for your Valentine". For a memorable Valentine gift, create a floral arrangement with fresh flowers and foliage. The workshop will include principles of floral design, a demonstration, and materials for participants to make their own arrangements. Instructor, Nancy Allison, is a librarian at the Arboretum's Andersen Horticultural Library and a nationally accredited flower show judge. Class fee \$14 for Arb members; \$16.50 for non-members.

The Minnesota Landscape Arboretum is an easy drive from the Twin Cities on State Highway 5, nine miles west of Interstate 494. Admission is free to Arboretum members, \$3 for adults over 16, \$1 for youngsters. Visitors may purchase memberships at the lobby desk.

To register for classes, call the reservation secretary, 443-2687. For general information on Arboretum activities, call 443-2460.

twig bender

Volume 9 - #4 -- February 1, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR February 4-8

WED - Department Coffee Hour, 9:30 a.m., 394 AlderH. Treats provided by Erica van Dijk and Evonne Kuyper

Undergraduate Affairs Committee, 12:35 p.m., 398 AlderH

Departmental Seminar - The Land Grant University by Karl Sauter, 16:05-16:55 p.m., 394 AlderH

Hort Club meeting, 17:00 p.m., 394 AlderH

THR - Hort 8066 - Plant Hybrid Zones by Dr. Patrice Morrow, Department of Ecology, Evolution and Behavior and Department of Plant Biology, University of Minnesota, 16:05-16:55 p.m., 415 AlderH

FRI - Civil Service Awards Committee - 8:30 a.m., 398 AlderH

LOOKING AHEAD

Feb 12 - Faculty Meeting

Feb 13 - Dave's pancake Breakfast 8:00 a.m.
Faculty Consultative Committee, 13:00 - 15:00

Feb 14 - Graduate Studies Committee, 10:40

Anybody knowing the location of three environmental growth cabinets used to manipulate the temperature of the root zone in potted plants please contact **Don Wyse** at 625-7064 (Agronomy & Plant Genetics). These cabinets were stored in the Crop Science Research Building, room 38, inventory # 8106935 (36 & 37).

The College of Biological Sciences is once again sponsoring "Mentors for 1991 H.S. Summer Research Programs". They are looking for faculty who are interested in serving as mentors. It is an eight week summer program (June 17-August 10) with students receiving a \$1000.00 stipend and \$600 will be available for support of the mentor's laboratory. Detailed description is available from Evonne Kuyper in the Hort main office or Dr. Denneth Dvergsten, College of Biological Sciences, 624-9717.

FIRST DETAILED NOTE....on the February 13, late winter pancake feed & spirit warmer. This event is a potluck. Your participation will make it worth while. Preparation starts at 6:00 a.m., the feed at 8:00 a.m. A sign-up sheet will be posted in the back hall within the next few days and all participants are encouraged to enter their names thereon. Also, if you are bringing items that will be cooked, please bring them in the day before, mark them and put them in Shirley's refrigerator.

I saw a great scholar, apparently thinking,
His brow was knotted, his eyes were blinking.
He chewed on his pencil and wrinkled his nose,
He tapped his fingers and wriggled his toes,
He looked out the window & up at the ceiling,
He sweated & mumbled-but I had the feeling,
That despite outward signs like his ears turning red,
There wasn't a thing going on in his head.
(Submitted by R. Mullin)



PROMISES, PROMISES...I promised you a pizza' to the gang who has worked so hard on the jigsaw puzzle. Count on it, February 8, at noon in Shirley's kitchen. Evonne thanks you.

RECYCLE....Fernande reminds everyone that pay envelopes can be re-used. Place the empties in her mailbox.

The CHINA CENTER offers partial travel grants for international airfare to University of Minnesota faculty with official invitations to lecture, teach or perform research in the **People's Republic of China**. Applications for travel to Hong Kong and Taiwan will be considered if the purpose of the travel is related to the study of China. Application deadline for travel during April, May and June is February 15, 4:00 p.m. Contact the China Center (612) 624-1002 for travel guidelines and application form.

FREE SEEDS...help support Minnesota Green...50 cent/pack suggested donation. A wide variety of flower, vegetable, and herb seeds packaged for 199 by Burpee Seed Company have been donated to Minnesota Green. Because the seeds were packaged for last year, germination rates will vary but usually more than 50% will grow. Minnesota Green cannot be held responsible for poor germination. Seeds are displayed in convenient racks in the Minnesota State Horticultural Society office, room 161 Alderman Hall, open M-F, 8:00-4:30. For more information call 624-7752.

Community GREEN SPACE Conference set for February 23 at Mpls Community College. Cost (including lunch) is \$25 (members of MG may register for \$16. Call 624-7752 or check Alderman Hall lobby bulletin board for details.

NOMINATIONS for the Frank N. Meyer Medal for Plant Genetic Resources will be accepted based on distinctive service through collecting, conserving, or evaluating plant genetic resources. The award will be to a person who has had an outstanding record of service over a long period of time. Deadline: 3/18/91. FFI Check the Alderman Hall lobby bulletin board.

POSITION ANNOUNCEMENTS

Extension Associate, Department of Horticulture, The Ohio State University, Columbus, Ohio.

Grounds Supervisor, Physical Plant, Macalester College, St. Paul, Minnesota.

See Employment Opportunities Book

WEEKLY CALENDAR
February 11-15

MON - Undergraduate Affairs Committee, 12:45 p.m., 394 AlderH

TUE - Faculty Meeting, 8:30 a.m., 394 AlderH

WED - Pancake feed & spirit warmer, 394 AlderH. Cakes by Dave & Mary. No departmental coffee hour this week

Faculty Consultative Committee, 1-3, 398 AlderH

Department Seminar, Auxin Transport Inhibitors and the NPA Receptor, by Dr. Gary Gardner, Head, Department of Horticultural Science, 4:05-4:55 p.m., 415 AlderH

THR - Graduate Studies Committee, 10:30-noon, 398 AlderH

Hort 8066 - Discussion of January 17 Prelim Exam, 4:05 p.m., 394 AlderH

FRI - Arb/HRC Research Policy Committee, 12:30-2:30, 394 AlderH

Office Staff Vacations: Evonne Kuyper (Feb 14,15,18), Laura Kalisch (Feb 18-22).

COLOR, COLOR, is a sight for sore eyes in Minnesota in February. Do you have a recognized COLOR CHART, e.g. from The Royal Horticultural Society (England) or from the florist industry in the U.S.? If so, please contact Mary Meyer, room 438. Many Thanks.

ATTENTION STUDENTS...The American Association of Botanic Gardens and Arboreta is holding its national annual meeting in the Twin Cities, June 19-23, at the Radisson Metrodome (University), hosted by the Minnesota

Landscape Arboretum. Keynote speakers will be Dr. Geoff Godby, recreational futurist, Penn State, speaking on future scenarios for arboreta and botanic gardens; Dr. Dean Abrahamson, Humphrey Institute, talking on global environmental concerns, especially global warming; and Dr. Arthur Bell, former director, Kew Gardens, talking on the politics of plant conservation globally. A complete program will be available in the main office.

Details on program will be posted as soon as received. Students wishing to help with the conference (running projectors, etc.) will be given free registration to the conference and free lunch on the day they work. To sign up, please contact Dr. Anne Hanchek, 443-2460.

DATE TO REMEMBER....February 21, Prelim Exam.

PANCAKE FEED & SPIRIT WARMER, Wednesday, February 13, potluck. Preparation starts at 6:00 a.m., the feed at 8:00 a.m. A sign-up sheet is posted in the back hall and all participants are encouraged to enter their names thereon. Also, if you are bringing items that will be cooked, please bring them in the day before, mark them and put them in Shirley's refrigerator. Dave & Mary.

POSITION ANNOUNCEMENTS

Extension Agent, Natural Resources (Forest Resources) position to be located in the Southeast District Extension Office, Rochester, Minnesota Extension Service, University of Minnesota.

Agricultural/Biological Technician, USDA, Duty Station, Aberdeen, Idaho. Application address in employment book.

See Employment Opportunities Book

TWIG BENDER

Volume 9 - #6 -- February 15, 1991
Editor: Martha Piechowski

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

WEEKLY CALENDAR February 18-22

MON - Plant Breeding Seminar, Perspectives on Germplasm Manipulation, by Dr. Ralph Riley, Cambridge, England, 4:00 p.m., 306 Borlaug Hall

TUE - Graduate Faculty Meeting, 10-12 noon, 394 AlderH

Forest Resources Seminar, Rejuvenation of Mature Conifers: Explant Miniaturization, by Dr. Olivier Monteuis, AFOCEL, Nangis, France, noon, 100 Natural Resources Building, SPC

WED - Departmental Seminar, Influence of post-harvest calcium treatment on stored broccoli*, by Thelma Miller, 4:05-4:55 p.m., 415 AlderH

THR - Hort 8066 - Population Genetic Structure and Evolution of Lythrum salicaria in the U.S.A., by Lisa Darmo, 4:05 p.m., 394 AlderH

Kermit A. Olson Memorial Lecture, I Think That I Shall Never See...New Concepts in Tree Architecture, by Dr. Ralph Scorza, Appalachian Fruit Research Station, Kearneysville, West Virginia, Thursday, February 27, 3:30 p.m. in 33 McNeal Hall

Graduate School Tuition Scholarships are available for 1991-92. Please see the posted form and do not hesitate to call the Graduate School Fellowship Office at 625-7579 if you have questions.

UPCOMING EVENTS Saturday, February 23, 1991, 8:00 a.m. - 4:30 p.m., Minnesota Green

Community Gardening Conference & Awards Ceremony, "Creating and Sustaining Community Green Space", at the Minneapolis Community College.

UBEEP Lighting Retrofit Project informational meeting for Alderman Hall in Room B36 Classroom Off Bldg. at 3:30 p.m. on Monday, February 25, 1991. UBEEP's lighting retrofit project will replace the existing four-foot fluorescent lamps on the Twin Cities campus with more efficient lamps. The project is planned to take about two years--replacing more than 500 lamps each workday--with the last bulb changed in fall 1992. The work will start in our building on 2/18/91 and is scheduled for completion on 3/8/91. This project will save \$9001 and 268 tons of CO₂ annually. The work will be done between four p.m. and midnight.

A hearty thanks to Dave and Mary and all who worked on and attended the pancake potluck. It was sensational!

Hort Happy Hour next Friday from 4:30 - 7:00 p.m. in 394 AlderH. Be on the lookout for posters next week.

Office Staff Vacations: Laura Kalisch (Feb 18-25)

*A special guest appearance by George Bush

WEEKLY CALENDAR
February 25 - March 1

TUE - Hort 3099 - Senior Seminar Series,
The Cultural Practices of Turf by
Jeffrey Mell, 12:50-1:40 p.m., 415
AlderH. Everyone is welcome.

WED -Department Coffee Hour, 9:30 a.m.,
394 AlderH. Treats provided by Neil
Anderson and Wes Hackett.

Faculty Consultative Committee, 1-3
p.m., 398 AlderH.

Kermit A. Olson Memorial Lecture,
I Think That I Shall Never See...New
Concepts in Tree Architecture by Dr.
Ralph Scorza, 3:30 p.m., 33 McNeal
Hall.

THR - Graduate Studies Committee, 10:30-
noon, 398 AlderH.

Hort 8066, Root System Acclimation
to Low Temperature by Pam Sanders,
4:05 p.m., 394 AlderH.

FRI - Plant Hardiness Discussion, 12:00
p.m., 398 AlderH.

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TODAY.....Happy Hour beginning at 4:30-
7:00 p.m., 394 AlderH. Come join us for
cheer, good food and conversation.

SATURDAY (2/23)....Minnesota Green
Community Gardening Conference & Awards
Ceremony, Creating and Sustaining
Community Green Space, Barbara Silverman,
Midwest Director, Trust for Public Land,
12:20-1:15 p.m., Minneapolis Community
College, 1501 Hennepin Avenue, Mpls.
Workshops beginning at 8:45 - 4:30. MG
members \$18, regular registration \$25.

If you need a tape dispenser, ask Martha in
room 305 AlderH so she can order one for
you. Do not take dispensers that belong to
others or the one from the xerox room.
Thanks in advance from Martha Piechowski.

* * * * *

The department would like to wish Martha
Rebhorn (Hort Society) good luck and much
happiness in her new endeavors. After 17
years with the Hort Society, she is retiring to
enjoy a much deserved vacation/sunshine in
Costa Rica and Texas. In her spare time,
she will be kept busy with her original
interior designs with mixed media. Contact
her and see her works in April when she will
be holding three art shows (White Bear
Lake, Maple Grove, and Hopkins). "I have
enjoyed working with the University staff and
watching the accomplishments of all the
students I've known over the past 17 years"
she writes.

* * * * *

Noureddine Cheikh successfully completed his
Ph.D. exam on February 18th.
Congratulations!

* * * * *

There will be an awards ceremony just prior
to our annual Kermit Olson Lecture on
Wednesday, February 27 at 33 McNeal Hall.
A reception honoring recipients will follow
the lecture by Dr. Ralph Scorza, from the
USDA Appalachian Tree Fruit Research
Station, Kearneysville, West Virginia.

* * * * *

"State of the College" address by Richard
Jones, our new Dean, will be at 4:00 p.m.
March 7, at the Northstar Ballroom.

Paul G. Johnson has received one of eleven 1991 scholarships presented by the Golf Course Superintendents Association of America. Paul is a graduate student in horticulture majoring in turfgrass science and is a research assistant for Dr. Don White. Congratulations, Paul!

* * * * *

Proposed Health Care Plan 1991, employee benefits open forum for all employees covered by University health insurance, February 27 on Mpls Campus and at the SPSC on February 28 from 12-1:30 p.m. Here is your opportunity to find out more information about the proposed health care plan and ask questions, raise concerns, and make comments.

* * * * *

The Graduate School has announced continuation of Tuition Scholarship Program for 1991-92. 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. Students are encouraged to apply directly to the Graduate School Fellowship Office, 625-7579.

* * * * *

ATTENTION BOTH: Undergraduate and Graduate Students - Professional Plant Growers Scholarship Foundation application forms are available from Evonne Kuyper in the main Horticulture office.

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The Curtis Dearborn Memorial Horticultural Scholarship is being offered to a person studying for an advance degree in some phase of horticulture. The amount is \$1,000 and deadline for application is June 1, 1991. See Evonne Kuyper in main office for application forms.

* * * * *

FOR IMMEDIATE RELEASE FROM THE Minnesota Landscape Arboretum: Celebrate the first hints of spring at the MN Landscape Arboretum's sixth annual pancake brunch, Sat and Sun, Mar 23 & 24. Maple syrup from the Arboretum's sugarbush - the maple woods - will be featured on hot whole wheat-honey pancakes. Brunch includes sausage and beverage, and is served from 9-1 both days.

That same weekend, tours will be held at the sugarbush so visitors can see the maples being tapped and how the sap is collected and cooked down to become maple syrup. Tasting is encouraged!

Tours will be given hourly on the hour from 11-3. A movie, "Backyard Maple Syrup" will be shown hourly on the half-hour from 10:30-2:30. Cooking demonstrations will be continuous from 10-3. Advanced ticket purchases for the brunch are recommended, as tickets sales will be limited. Tickets can be ordered by mail or purchased at the Arboretum Gift Shop for \$4.00 per adult; \$2 per child 12 and under; free for children under 3. Proceeds go to support the Arboretum and its programs. Mailing Address: Pancake Brunch, Minnesota Landscape Arboretum, 3675 Arboretum Drive, P. O. Box 39, Chanhassen, MN 55317. Mail orders accepted through Wed., March 13.

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Internships available at the Minnesota Zoo. They are seeking four Horticulture Interns/Student Workers (3 exterior Landscape Maintenance and 1 interior Landscape Maintenance positions). See posting on lobby bulletin board.

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TWIG BENDER

Volume 9 - #8 -- March 1, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR March 4-8

TUE - Hort 3099 - Senior Seminar Series, Major Trends in the Horticulture Industry by Joe Karsten, and A Discussion of the St. Paul Toxic Chemical Task Force and Its Conclusions, by Kyle Howieson, 12:50-1:40 p.m., 415 AlderH.

WED - Department Coffee Hour, 9:30 a.m., 394 AlderH. Treats provided by Betsy Lamb and Linda Jorn.

Departmental Seminar - Control of Apple Scab in Commercial Minnesota Orchards by Monitoring Ascospores by Doug Foulk, Graduate Student in Horticultural Science, 4:05 p.m., 415 AlderH.

Hort Club meeting, 5:00 p.m., 394 AlderH.

THR - "State of the College" address by Richard Jones, Dean, College of Agriculture, reception 3:30-5:30 p.m., address at 4:00 p.m., Northstar Ballroom.

Hort 8066 - Physiological Responses of Phaseolus Roots and Shoots Under Water Stress by Maria Janssen, 4:05 p.m., 394 AlderH.

FRI - Hort 8066 - Plant Hardiness Discussion, 12:00 p.m., 398 AlderH.

SHE'S BACK....bachelor graduate of '85, Debbie Schwarze has arrived to work with John Erwin as Extension Assistant. Debbie comes from the University of Nebraska where she worked as Extension Program Assistant. Say hello to her in 459 AlderH.

THANKS to all who worked to make the Kermit Olson Lecture such a success. Special thanks to the efforts of Kathy Lloyd, Betsy Lamb, Alicia Borowski, Paul Johnson and Jim Busse. (From the seminar chair, JVC)

ATTENTION: Chocoholics! 4-H candy bars are for sale. Three varieties are Krunch, Caramel and 100 Grand for .50 cents per bar. See Denny Schrock in room 440 AlderH for an immediate fix (limited to supply on hand) or to place an order for delivery the following week. Orders will be taken through March 8.

HORT BOWLING TEAM reports strike, strike, strike, etc., congratulations to Leonard Hertz who bowled a 267 on 2/20 (that's eleven strikes broken up by only one missed pin in the 6th frame). The fact that only one missed pin cost Len 33 points explains why most of us struggle to break 100!

Garden Writers Association of America announces 1991 Annual Student Scholarship Award Competition which is open to all college students, both graduate and undergraduate, interested in the art of garden communication. Awards of \$600, \$300 and \$100 plus an honorary student membership in GWAA for one year. Names to be announced during GWAA's Annual Meeting held September 7-10 in St. Louis, Missouri. See Evonne for applications...deadline May 31.

POSITION ANNOUNCEMENTS

ERL-Corvallis is seeking candidates for temporary assignments at the laboratory for periods from 6 months up to 2 years (possible renewal for a total of 4 years) as research scientists or research project leaders. These assignments would be under the Intergovernmental Personnel Act, for full-time, part-time, or intermittent periods. Research scientists who are full-time employees of public or private institutions of higher education, state or local governments, Indian Tribal Governments, and certain other nonprofit organizations are eligible. See employment book for specific assignments.

Science Faculty Positions (3 tenure-track) to teach introductory science courses, expand program for helping minority and educationally at risk students prepare for non-science majors as well as science and math

intensive majors and carry out research in a lower division unit of a research university. Contact General College, Ms. Alice Ross, 340 Appleby Hall, 625-5529. Deadline is May 1 but application review will begin March 1 and continue until an adequate pool is developed.

See Employment Opportunities Book

March Schedule of Classes offered at the Minnesota Landscape Arboretum.

March 9 - 10-2:30. The Basics of a Rock Garden, instructor Jean Stevens will cover the basics including site, soils, stones, design, construction, planting and maintenance; and selecting plant materials. Stevens is a long-time garden enthusiast and active member of several garden and rock garden societies. Fee is \$14 for Arboretum members, \$17 for nonmembers.

March 13-April 17 - 9:30 a.m. - 12:30 p.m. Capturing the Arboretum in Watercolors. Learn technique and improve skills. Bring a set of watercolors, watercolor brushes, plastic palette, watercolor paper, water jar, masking tape, drawing board or stiff cardboard at least 20"x25". Instructor is David Ice, artist, art educator and art consultant. Fee \$60/members; \$75/nonmembers.

March 23 - Dormant Pruning, (Section 1, 9-noon) (Section 2, 1-4). Pruning basics including timing, tools, techniques and reasons for pruning both trees and shrubs. Part of the class will be held outdoors, weather permitting. Fee \$10/members, \$13/nonmembers. Those not registered may be turned away if there are already 25 students.

For more information on the classes, instructors or registration, call Pat Madden, reservation secretary for the Minnesota Landscape Arboretum, 443-2687.

TWIG BENDER

Volume 9 - #9 -- March 8, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR March 11-15

TUE - Faculty Meeting, 8:30 a.m., 394 AlderH.

Last Day of Instruction, Winter Qtr

WED - Department Coffee Hours, 9:30 a.m., 394 AlderH. Treats provided by Gary Gardner and Kathy Lloyd.

Faculty Consultative Committee, 1:00-3:00 p.m., 398 AlderH.

THR - Graduate Studies Committee, 10:30-noon, 398 AlderH.

Hort 8066, Discussion of 2/21 Prelim Exam, 394 AlderH.

FRI - Conference on Designing The Northern Parking Lot: New Perspectives, sponsored by the Minnesota Chapter of the American Society of Landscape Architects and The Minnesota Landscape Arboretum, 8:30-4:30, at the Minnesota Landscape Arboretum, Chanhassen. Deadline for reservations: 3/11, call Pat Madden at 443-2687, \$35/person, \$15/students. FFI see bulletin board across from faculty mailboxes.

GRADUATE STUDENT MERIT AWARDS dossiers are due March 29. Please turn them into Evonne Kuyper in 305 AlderH. See page 26 of your blue book for procedures.

The 57th Annual HOME & GARDEN SHOW will be held March 6-10 at the Minneapolis Convention Center. Stop in and visit the Dial-U booth. Informational pamphlets available in the main office (305) for details on exhibitors, workshops & demonstration times, and admission.

The 2nd ANNUAL CHILI COOK-OFF will be Wednesday, March 27, from 12:00-1:30 p.m. We need volunteer judges (6). Best overall chili gets a plaque for one year. Last year's winner was Edith Lurvey. Criteria is posted in 305 Alderman Hall. Sign-up for extras will be posted in the back hall on Monday, March 11. See you there! (K. Lloyd)

Our thanks to all of you in the department for keeping us in your thoughts and prayers this week and also for the flowers you sent to keep Emily's spirits high. What a homecoming! Emily underwent surgery last night. It went well and the doctors are encouraged. If all continues to go well, we hope she will be home for extended bedrest in about a week. Jim, Emily and Claire.

POSITION ANNOUNCEMENTS

Assistant Researcher, academic staff position in the University of Wisconsin-Madison at Rhinelander Agricultural Research Station.

Assistant Instructorship, Department of Horticulture, Kansas State University, Manhattan, Kansas.

Farm Advisor-Horticulture, University of California, Tulare County, Visalia, California.

Research Geneticist, USDA, ARS, SAA. Duty location: USDA, ARS, South Atlanta Area, U.S. Vegetable Laboratory, Charleston, SC.

See Employment Opportunities Book

Research Assistant - Plant Evaluation, Chicago Botanic Garden, Glencoe, Illinois. Position available for 14 weeks in summer of 1991. See undergrad job bulletin board in lobby of Alderman Hall.

TWIG BENDER

Volume 9 - #10 -- March 15, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR March 18-22

MON - Last day of finals!

Undergraduate Affairs Committee,
1:00-3:00, 398 AlderH.

WED - Spring Break!

Winter Quarter grades are due in to
Evonne no later than 1:00 p.m.

Department Coffee Hour, 9:30 a.m.,
394 AlderH. Treats provided by Karl
Sauter (he needs some help to feed this
hungry group).

THR - Faculty Consultative Committee, 1-3,
398 AlderH.

FRI - College of Agriculture Happy Hour,
The Dakota in Bandana Square, 4-7.

We are cordially invited to University Stores
Interim Open House of only scientific vendors.
April 3 from 10-4:30 at the Radisson
Metrodome, University of Minnesota on
Washington Avenue. 40+ vendors and
numerous University departments with lab
supporting services will have exhibition
booths. Contact LPIS at 626-1813 for a
complete listing.

1991-92 HORT CLUB OFFICERS are:

President - Kathy Kittleson
Vice President - Troy Carson
Greenhouse - Karin Lundquist
Social - Curt Cirhan
Treasurer - Melanie Johnson
Secretary - ?

The White's are proud grandparents of Eric
Michael - born to Michael and Sue in
Columbus Ohio (8 lb 7 oz/20 1/2").

A FAREWELL to Guo Lankai who is leaving
to further her studies at the U of Mankado.

OFFICE AND CLERICAL ELECTIONS: As
you know, the office and clerical employees
at the University of Minnesota recently voted
on whether they wanted to be represented for
purposes of collective bargaining. The results
of the voting were as follows:

Eligible employees	2,788
Minnesota Teamsters No. 320	236
AFSCME No. 6	1,149
No representative	870

Professor Mark Ascerno has agreed to serve as
Acting Head of the Department of
Entomology until a permanent head is named
following an upcoming national search.

The Oliver H. Kelley Farm is holding its
Tenth Seed Savers Exchange on Sunday,
March 24 from 1-4 p.m. Further details
posted on bulletin board in lobby of Alderman
Hall.

POSITIVE ENROLLMENT NEWS from the
College of Agriculture. Winter quarter figure
is 770, a 13% increase from winter 1990 (680).
It is a 2.5% increase from fall 1990 (751)...this
is the first time in at least 10 years that
enrollment has increased from fall to winter
quarter.

HOLIDAY SCHEDULE for Fiscal Year 1991-
92 -

Independence Day	July 4, 1991
Labor Day	Sept. 2, 1991
Thanksgiving Day	Nov. 28, 1991
Christmas Day	Dec. 25, 1991
New Years' Day	Jan. 1, 1992
Martin Luther King's Birthday	Jan. 20, 1992
Memorial Day	May 25, 1992

Floating Holidays (Twin Cities)

November 29, 1991
December 23, 1991
December 24, 1991

The eleventh holiday has been designated a
personal holiday for 1991-92.

TWIG BENDER

Volume 9 - #11 -- March 22, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR March 25-29

MON - First Day of Instruction, Spring Quarter

Biological Forum Seminar Series, Impact of Agriculture on Water Quality by Professor Don Wyse, Department of Agronomy & Plant Genetics, 306 Borlaug Hall, 7:00 p.m., coffee, 7:30 p.m., speaker.

TUE - College of Agriculture Curriculum Committee, 2:30-4:00 p.m., 101 Coffey Hall.

Special Hort faculty meeting scheduled for 3/26 has been changed to April 2.

WED - Department Coffee Hour, 9:30 a.m., 394 AlderH. No one has signed up to bring treats!

Chili Contest, 11:30 a.m., 394 AlderH.

Faculty Consultative Committee, 1-3 p.m., 398 AlderH.

Departmental Seminar - Current and Future Research on Temperature Effects on Plant Growth, by Dr. John Erwin, Department of Horticultural Science, 4:05 p.m., 415 AlderH.

THR - Undergraduate Affairs Committee, 8:15 a.m., 394 AlderH.

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

Hort 8066 - Physiological Responses of Phaseolus Roots and Shoots Under Water Stress by Maria Janssen, 4:05 p.m., 394 AlderH.

Dr. Elsayed (formerly of the Agronomy Department) would like to rent his lovely brick home in Falcon Heights for a year starting 8/1/91. If you know of a visiting professor who might be interested, please call him at 645-5999.

A SIGN-UP sheet for garden plots is posted behind the graduate student mail boxes. Everyone is encouraged to keep their plots in very good order (no weeds allowed) due to important events happening on the St. Paul Campus this summer. Sign up now and show off your new or interesting cultivars and innovative/experimental growing techniques. Weed competition studies are conducted under the able supervision of Dr. Hertz and Edith Lurvey. (Submitted by R. Meissner)

2ND ANNUAL CHILI CONTEST, March 27, 394 AlderH, 11:30-1:30. Bring your favorite pot of chili and earn the privilege of holding our very own departmental obnoxious "Dragon Award" for the year. Please bring enough chili to serve at least 10 people. The judges will begin tasting promptly at 11:30 a.m. before chili is served to anyone else. Sign up now to bring a side dish to share plus your own dishes, silverware, etc. Official Department Judges: Tai Pham, Ken McNeil, Virgil Concibido, Wang Fei and Mark Strefeler.

A REMINDER...the P.R. Committee is soliciting newsworthy items from each of you to keep the community informed about Horticulture and our department. These items will be passed along via University Public Relations and local media contacts. Put your suggestions in Deb Brown's mailbox.

SEED GERMINATION CHAMBERS: does anyone plan to use the seed germination chambers, in 335 AlderH, either now or in the future? We are trying to locate a new home for them. Please let Alan Smith (4-9290) know if you have any plans for these chambers.

Laura Kalisch is collecting news stories/calendar events to be submitted to Minnesota, the University of Minnesota alumni Association bimonthly magazine. Turn them into Laura by 3/29.

ATTENTION GRADUATE ASSISTANTS: As you probably know, the University pays all or part of the cost of health-care coverage for graduate assistants with 25% or more appointments in class titles 9511 (teaching assistant), 9521 (research assistant), and 9531 (administrative fellow). We wish to inform you of an important policy change that affects the health care options of graduate assistants in your department who are not enrolled in the Graduate School. Currently, such students are not eligible for the graduate assistant Group Health plan. Instead, the University is paying all or part of the cost of University-sponsored hospitalization insurance and the health service portion of the students services fee. Beginning spring quarter, such students will be eligible to join the Group Health plan on the same basis as other graduate assistants and the University will no longer pay for University-sponsored hospitalization insurance. It is very important that graduate assistants be aware of this change and that they apply for Group Health coverage if they wish to receive it. Contact the Graduate Assistant Insurance Office, 625-4346 by April 5.

TWIG BENDER

Volume 9 - #12 -- March 29, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR

MON - Horticulture Holiday¹

TUE - Special Horticulture Faculty Meeting,
8:15 a.m., 394 AlderH

WED - Department Coffee Hour, 9:30 a.m.,
394 AlderH. Treats provided by L.
Hertz. More people are needed to sign
up to bring treats...the group went
hungry last week

Lab Fest, 10-4:30, Radisson
Metrodome

Philip C. Hamm Memorial Lecture,
Gene Regulation in Higher Plants-
Practical Uses in Agriculture by Dr.
Robert Goldberg, Department of
Biology, University of California-Los
Angeles, 3:30 reception, lobby McNeal
Hall, 4:00 lecture, room 33 McNeal
Auditorium

THR - Undergraduate Affairs Committee,
8:15-10:15 a.m., 394 AlderH

Hort 8066, 4:05 p.m., 394 AlderH

LAB FEST...we are cordially invited to
University Stores Interim Open House of only
scientific vendors. April 3 from 10-4:30 at
the Radisson Metrodome, University of
Minnesota on Washington Avenue. 40+
vendors and numerous University departments
with lab supporting services will have
exhibition booths. Contact LPIS at 626-1813
for a complete listing.

Hey Chili gang...your feast was great! Thanks
for helping "put it on". Two newcomers won
it all...Greg Gingera won the "Dragon Award"
for his quick chili and Gary Gardner took 2nd
for his outstanding presentation. It was a
great panel of judges with Dave Davis in
charge of the lengthy presentation of
awards...I thought I'd never get to eat. It was
unanimous to do it again next year. (Article
by Kath Lloyd)

Karl Sauter informs the Twig that April 5 is
the last day to sign up for a garden plot.

Destruction of Hazardous Chemicals in the
Laboratory by George Lunn and Eric B.
Sansone is available to check out from the
department. It is located in 305 AlderH...see
Evonne.

Western Union Mailgram notifies our
department of a stop sale and recall of
"Benlate 50DF", Benlate 1991 DF" and "Tersan
1991 DF" fungicides by DuPont Agricultural
Products. All dealers and distributors should
stop sale of these products immediately and
notify any Benlate and Tersan customers of
the recall. Any grower, nurseryman, golf
course superintendent, horticulturalist,
University tester or applicator possessing any
of these Benlate or Tersan products should
return it to the point of purchase for a full
credit. DuPont has initiated the stop sale and
recall because the products may contain
Atrazine herbicide. Because Atrazine is a
highly effective herbicide, spraying the
affected Benlate and Tersan on plants could
result in injury to plants. However, the level
of Atrazine that may be contained in Benlate
and Tersan poses no human health or food
safety problems. Dupont will keep the stop
sale in effect until quality assurance and
analytical procedures can verify the purity of
the product. DuPont apologizes for any
inconvenience the stop sale and recall may
cause to its customers. If you would like
additional information on this stop sale and
recall, please call DuPont at 1-800-441-7515
or 1-800-342-5247, prompt code 30 for
distributor and market centers.

¹April Fools!

TWIG BENDER

Volume 9 - #13 -- April 5, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR April 8-12

TUE - Hort Faculty Meeting, 8:30 a.m., 394 AlderH

WED - Ph.D. Defense Seminar, Influence of seed maturity on the vigor and chemical composition of hybrid shrunken-2 sweet corn seed by Alicia M. Borowski, 9:00 a.m., 394 AlderH

Departmental Coffee Hour, 10:00 a.m. (note time change), 394 AlderH. Treats provided by Edith Lurvey and Jerry Pierson.

Faculty Consultative Committee, 1-3, 398 AlderH.

College of Ag Curriculum Committee, 2:30-4:00, 101 Coffey Hall.

Departmental Seminar, The effect of organic solvent infusion of fungicides on germination and stand establishment of shrunken-2 sweet corn seed by Ms. Patricia Hung, Graduate Student.

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

Hort 8066 - Physiological and biochemical aspects of crop hardiness by Dr. Paul Li.

FRI - Plant Hardiness Discussion, 12:00 p.m., 398 AlderH.

FREE....1990 sweetcorn seed (assorted varieties), Hort Headhouse, April 9-11 only.

PRELIM EXAM....is scheduled for April 18 from 8:00 a.m. to 4:00 p.m. (and for those with class conflicts, Friday a.m.). Grad students pick up the question from Evonne Kuyper.

CURRENT RECYCLING FACTS...today's recycling efforts save over 200 million trees a year. Recycled paper uses 64% less energy and 58% less water to produce in comparison to paper made entirely with virgin fiber. Recycled paper produces 75% less air pollution and 35% less water pollution in comparison to paper made entirely with virgin fiber. Helpful Hints - Use 2-sided copying whenever possible. Circulate a memo to several people rather than making copies for each person. Reuse paper and envelopes whenever possible. Reduce your use of paper products whenever possible. Use electronic mail. (As per the Purchasing and Materials Management Newsletter, January 1991)

ORANGE TENNIS SHOES....you've probably seen them on our newest graduate student, Tom Viker. He has a bachelors degree in Physiology and has started with the floriculture program Spring Quarter with John Erwin as his advisor. He and his wife live on the east side of the fair ground and have two cats and a dog named Topper. Say hello to Tom, his office is 462 Alderman.

COOPERATION...is needed regarding the use of the department's University parking permits. The major intent of the permit system is to be able to provide University /departmental guests with short-term, no-cost parking. Obviously, when the permits are being used for an entire day by faculty and/or staff, they are not available for guests. Another valid use is for short-term parking at other University locations while attending meetings, obtaining signatures, etc. Members of the department are asked not to request that a permit be reserved for a day. Permits will be reserved for guests of the department only. Thank you very much for your understanding and cooperation.

GREENHOUSE NEWS SUPPLEMENT

Roger Meissner

Space Assignments: Spring Quarter teaching space assignments are as follows:

Hort 5054/3016	E-1,E-2,E-3, 1/2 bench 3
Hort 5034	E-3 (benches 4,5) E-4 (benches 4,5)
Hort 5048	E-3 (bench 1) E-4 (bench 1,2)
Hort 1010	E-4 (1/2 bench 3) E-3 (1/2 bench 3) west end of undergrad teaching greenhouse
Hort 3072	1/2 bench 3

Vehicle Update...Starting April 1st, vehicle 3434 (gray wagon) will be the only vehicle for everyday checkout. The keys to this car are found in room 326 Alderman (the xerox room). If you need the use of a pickup or cargo van, make arrangements with Roger Meissner.

Parking...Please do not park your vehicles on the north and south sides of the greenhouses. Police will ticket unauthorized vehicles.

Security...All outside doors should be kept shut and locked on weekends and after 4:30 p.m. during the week. If you open a door after hours, you are responsible for closing it. Classroom users are responsible for making sure that the windows are closed at the end of class.

Clean Up...Greenhouse users please remember to clean up after yourself and your project for the day.

Suggestion Box...If you have any complaints, suggestions, please write them down and place it in the black box outside of Roger's office. Your feedback is very important.

Garden Water Hoses...Watering hoses found in the greenhouse sections should NOT be removed. If you need a hose for outside watering, see Roger or Martha.

TWIG BENDER

Volume 9 - #14 -- April 12, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR April 15-19

MON - TAX DEADLINE...pay up!

WED - Departmental Coffee Hour, 9:30 a.m.,
394 AlderH. Treats provided by Erica
van Dijk and Jim Luby.

Departmental Seminar, Evocation and
floral determination by Dr. Carl
McDaniel, Department of Biology,
Rensselaer Polytechnic Institute, Troy,
NY; on sabbatic leave in the
Department of Biology, Carleton
College, Northfield, MN, 4:05 p.m.,
415 Alderman Hall, coffee, tea and
cookies available at 3:50 p.m.

THR - Prelim Exam, 8-4, 394 AlderH

Hort 8066, Breeding and genetics of
cold hardy fruit crops by Dr. James
Luby, 4:05 p.m., 394 AlderH.

FRI - Plant Hardiness Discussion, 12 noon,
398 AlderH.

CONGRATULATIONS...to both Bert
Swanson and Joan Nassauer who were awarded
the Horace T. Morse - Minnesota Alumni
Association Award for Outstanding
Contribution to Undergraduate Education.

The St. Paul Campus Retirement Luncheon is
scheduled for May 14 in the Earle Brown
Center. Tickets are \$3.50/person and must be
purchased by May 7. Kathy Lloyd has agreed
to be the departmental ticket coordinator and
will accept your reservation until May 7. If
you wish to attend the luncheon and would
like Kathy to order your ticket, please pay her
at the time you make your reservation.

LAST CALL for proposals for MSI Computer
Resource Grants is April 15, 1991. Actually
these grants are awarded on a six-month basis
and the next deadline will be October 15.
Laura Kalisch has details on the guidelines.

CONGRATULATIONS...and good luck to
Alicia Borowski who successfully completed
the Ph.D. exam. Dr. Borowski will leave for
sunny California April 19. Her address:
Asgrow Seed Company, 500 Lucy Brown
Lane, Box L, San Juan Bautista, CA 95045.

WELCOME NEW PEOPLE...Dr. Agnes
Flores-Nimedez arrived from the Philippines
to the Department recently. She will work on
the project of vegetable crop plant cold
hardiness improvement at the Laboratory of
Plant Hardiness. She received her Ph.D. from
the University of Hamburg, Germany
involved in research of ABA analogues in
relation to crop plant cold tolerance. She is in
room 256. Please join me to welcome
her....Paul Li.

Cindy Tong, our post-harvest horticulturist,
has arrived. You can greet her in room 362
Alderman (temporary). She informs us that
she was born and raised in Honolulu. She
received her Ph.D. from the University of
California-Davis, worked as a post doc at
Beltsville, and Philadelphia for the
Agricultural Research Service. She will be
around campus til April 19 and back Memorial
Weekend. Welcome!

GARDEN PLOT contracts must be signed and
turned in by Wednesday, April 17. People
should retain the lower portion of their
contract. Thanks....Karl-Sauter.

SHADING TIME....with the temperatures
hitting in the 80's the weekend of April 6 & 7,
has summer arrived earlier than spring? I will
be applying whitewash to the greenhouse
sections starting the week of April 15. If you
would like your section shaded, leave me a
note as to what week and what sides of your
greenhouse sections you want shaded.
Thanks...Roger Meissner.

HORTICULTURE SPECIAL TALENT EXHIBIT....turn in your special craft/art to Kath Lloyd (305 AlderH) so it can be shown in the display case in lobby of Alderman Hall. Submit your artistic articles during Spring Quarter as the display will be set up starting June 1.

BLAZE OF GLORY....that's how the Hort bowling team ended their season winning all three games from the number one team, Soils. Credit goes to two bowlers, Karl Sauter and Greg Gingera. Karl had an outstanding three games, totaling a 591 series and missing the magical 600 by only 9 pins. Greg also had an excellent night with a 526. Rest your arms fellow bowlers until next season....Len Hertz.

TIGHTEN OUR BELTS....there is concern that are office supplies are disappearing fast and running short. Please conserve and check with Martha in the office before taking large quantities of pencils, paper, etc. The supply budget has to last us until the end of the fiscal year and June 30th is a long way off.

WEATHER OBSERVATIONS....Don Baker from Soils (5-6235) is looking for additional observers. Individuals already on the payroll, whose presence is required for greenhouse or lab work on weekends and holidays, might consider earning extra money and learn much about weather and climate. Time required is 1 to 2 hours beginning at 4:30 p.m. Call Don Baker at 5-6235.

SOCIAL COMMITTEE...is looking for creative suggestions. Submit your ideas in writing and drop them in the suggestion box located on the table in 305 Alderman. Anyone interested in being on the social committee, please speak with Kath Lloyd.

SPRING CLEANING BUG....has it bitten you also. Friday April 26th has been designated official horticulture office/lab cleaning day. The office staff will spend some time cleaning up their personal space that day and encourages everyone to do likewise. Extra cleaning supplies will be requested from janitorial services so we can clean, clean, clean.

TWIG BENDER

Volume 9 - #15 -- April 19, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR April 22-26

TUE - College Curriculum Committee, 2:30-4:00 p.m., 101 Coffey Hall.

Guy Stanton Ford Memorial Lecture by Dr. Stephen H. Schneider, 3:30 p.m. 150 Physics, East Bank Campus.

WED - Departmental Coffee Hours, 9:30 a.m., 394 AlderH. Treats provided by Evonne Kuyper and Penny Aguirre.

Undergraduate Affairs Committee, 8:15 a.m., 398 AlderH.

Faculty Consultative Committee, 1-3 p.m., 398 AlderH.

Departmental Seminar, An ascospore monitoring approach to apple scab control in commercial Minnesota orchards, by Mr. Douglas Foulk, Graduate Student, Department of Horticultural Science, 4:05 p.m., 415 AlderH.

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

Hort 8066 - Mechanisms of environmental stress resistance and injury in plants by Dr. John Carter, 4:05 p.m., 394 AlderH.

FRI - Spring Clean Up Day, all day, Alderman Hall, Greenhouse.

AAH, SPRING! As all good things that come to mind in spring, like; love, gardens and tax returns, spring cleaning likely competes for the top of all our lists. Oh to be organized, free of clutter once again! To help nurture this idea, Roger, Dave and select surprise volunteers will sponsor a spring "discarded item pickup". Candidates for such a pickup include any disused or broken article that is in your way which you want to see disappear. Please remember that we have receptacles to recycle paper and chemical waste in the standard manner. To effect the wanted disappearance, simply place

the item(s) in question outside your office, lab or the greenhouse shop by 9:00 a.m., Friday, May 5th and Viola, it will vanish! Many thanks in advance to all of those who pitch in to reduce building clutter and those unwittingly enough to be caught by our "volunteer" dragnet. Regards...Dept. of Removal, Renewal and Recycling...THE CREW.

CONGRATULATIONS....to Boyang Chu and Ling Ling who had a 6 lb 6 oz baby boy on April 9.

WEDDING BELLS were heard for Vergel Concibido and Kerstin Breitmoser on March 22. Much happiness to you both.

PHYSICAL PLANT....notifies our department that the air conditioning system will be started for Alderman Hall the week of May 13.

RECYCLE....those payroll envelopes as per Julie and Fernande. We need everyone to participate in this. Simply remove your check and leave empty envelope on the counter in the back hallway or one of their mailboxes. Thank you in advance from Julie and Fernande in Accounting.

INVITATION.... to undergraduate research students to participate in the poster session of the Fifth Life Sciences Undergraduate Research Symposium on the afternoon of May 22, 1991. The symposium is sponsored by the College of Biological Sciences Honors Program but is open to any undergraduate research student in life sciences at the University. Check with Evonne Kuyper in 305 AlderH for registration form. There are two lectures about poster preparation...Wednesday, April 24 at 3:30 p.m. in 125 Johnston Hall and again on Thursday, April 25, same time, 260 BioSciCtr.

TWIG BENDER

Volume 9 - #16 -- April 26, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR April 29 - May 3

MON - Biological Forum Seminar Series, Dr. Eville Gorham, Ecological Consequences of Global Warming, 306 Borlaug Hall, 7:00 p.m., coffee, 7:30 p.m., speaker.

TUE - Greenhouse Subcommittee meeting, 2:00 p.m., HrG headhouse.

WED - Undergraduate Affairs Committee, 8:15 a.m., 398 AlderH.

Departmental Coffee Hour, 9:30 a.m., 394 AlderH. Treats provided by Kath Lloyd and Kevin Iungerman.

Departmental Seminar, Influence of post-harvest calcium treatment on stored broccoli, by Ms. Thelma Miller, Graduate Student, 4:05 p.m., 415 AlderH.

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

THR - Hort 8066, Molecular analysis of adventitious root formation, by Steven Lund, Graduate Student, 4:05 p.m., 394 AlderH.

MISSING....please bring things back if you borrow them!!! Erica van Dijk (ICL lab, room 277) lost a Brinkman dispenser, 25 ml, last week and about a month ago one 15 ml walked away also. They're about \$300 - not something you replace every week or month. Please return.

RESERVE....May 9,10-11 to buy your plants from the HORT CLUB. List of plants to follow soon.

CONGRATULATIONS to Deb Brown and Anne Hanchek whose calendar, Gardening 1991, has won another award. It just earned first place in the "popular publications" category of the Ag Communicators in Education (ACE) National Media Contest.

ATTENTION: Garden Plotters...the plots have been marked out. Maps are in your mailboxes. Happy Planting!

LANDSCAPE ARBORETUM...offers spring blooms. Tulips, snow crocus, pansies and wildflowers such as Dutchman's Breeches, Bloodroot, Snow Trillium and Rue Anemone are in bloom at the Arboretum, west of Chanhassen, along with flowering shrubs such as forsythia. Three-mile drive is now open to vehicle traffic.

New gate fee policy...call the Arboretum for details (443-2460).

Auxiliary Plant Sale on Saturday, May 11, 9-2. Cold-hardy plant including herbs, old-fashioned roses, and others.

Mother Nature Day, Sunday, May 12, 10-3, sponsored by Dayton's. A day of music, food and entertainment for families including performances of Heart of the Beast Puppet Theatre. Tickets are \$10 for moms (includes a canvas tote bag filled with gifts, plus lunch) and \$5 for others (includes lunch). Tickets are available through Dayton's beginning April 26 by calling 1-800-272-2540. Only Mother Nature Day ticket holders will be admitted to the Arboretum until 3 p.m. that day. The Arboretum will re-open to members and general public after 3 p.m.

Beginning May 1, narrated tram tours at \$1.50 per person will start daily except Mondays and Tuesdays. Tours leave Snyder Bldg Wednesday through Fridays at 10, 11:30, 1 p.m.; Saturdays, Sundays & holidays at 11:30, 1 and 2:10. Groups should reserve 2 weeks advance with prepayment (call 443-2687). Walking tours are free and no reservations needed.

TWIG BENDER

Volume 9 - #17 -- May 3, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR May 5-10

SUN - Interruption of steam service, all buildings on the St. Paul Campus, 4:00 a.m.-10:00 p.m., Juan Bartolomei 5-4372.

MON - Quarterly State Extension faculty meeting, 8:30-10:30 a.m., 135 EBC.

TUE - Deadline for purchasing tickets to the St. Paul Campus Retirement Luncheon. See Kathy Lloyd.

College Curriculum Committee, 2:30-4:00 p.m., 101 Coffey Hall.

WED - Departmental Coffee Hour, 9:30 a.m., 394 AlderH. Treats by Paul Li and Ed & OkYoung Stadelmann.

Undergraduate Affairs Committee, 8:15 a.m., 398 AlderH.

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

Hort 8066 - Discussion of April 18 prelim exam.

Hort Club Plant Sale today through Saturday, 9-5, SPSC.

FRI - Ph.D. Thesis Seminar, Breeding for resistance to verticillium wilt in potato, by Frank Treadwell, 9:00 a.m., 394 AlderH.

Spring Quarter Departmental Happy Hour, 4:30-7:00. Faculty, staff, students are invited. Refreshments, snacks provided for a \$2.00 donation. See you there!

DEAN'S LIST congratulations go out to Margaret Shore and Hans Hansen. Margaret is advised by Pete Ascher and Hans' advisor is Mark Strefeler.

FLYING COLORS is how Paul Johnson passed his Masters exam on 5/2/91. Congratulations from Don White and the department.

SPRING GARDEN SALE....by the students in Horticulture Club, will be May 9-11 from 9:00 a.m. to 5:00 at the St. Paul Student Center. Available planting materials include: annuals, perennials, native grasses and prairie flowers, vegetables, hanging baskets, artichokes, raspberries, blueberries, lilacs, and ground covers. Time to spruce up your yard and garden.

SAFETY NOTICE....the department has just purchased two chemical spill kits for the greenhouse headhouse. One kit will be stored in the three-section locker outside the pesticide storage room and the other kit will be stored in the metal cabinet in the pesticide weighing room. If you plan on using these two rooms, please familiarize yourself with these kits. If you have a pesticide spill, these kits should have the necessary equipment you need in them. Any questions, contact Roger Meissner at 4-3631. Also if you do use any item in the spill kits, please leave Roger a note so he can replace the item(s).

RECYCLING BOXES....several are available in the main office. They are the small ones that you place near your wastebasket. If you need one for your office, just check with Martha in 305 AlderH.

VENTILATION FANS in Alderman Hall will be shut off from 3:30 to 12:00 midnight on the following days to allow for cleaning and painting. Any questions, contact Physical Plant at 4-2288.

May 3 & 6	4th floor
May 6 & 7	1st floor
May 7 & 8	2nd floor
May 8 & 9	3rd floor

AIR CONDITIONING for Alderman Hall will be turned on May 13.

BEGINNER'S LUCK! After buying our new home, we landscaped it. Since this was my husband's first attempt to plant a lawn, he was careful to do the job right. He prepared the soil, put in a sprinkler system and waited. Finally, after work, on a day when the weather was exactly right, he seeded the lawn, rolled it and watered it, finishing by artificial light because it got so late. For the next three weeks he watered the lawn daily, often rushing home at noon to run the sprinklers for an hour. He fussed over it, shooed away birds and our cat, and looked for the first blade of grass to peek through. Except for a few weeds, nothing happened. Then one Saturday morning my husband came in and announced sheepishly, "I just found the sack of grass seed--in the garage." "What in the world did you plant?" I asked. With a sigh, he replied, "Kitty Litter." Enjoyed by the office staff from "The Leaflet", a newsletter from the Arboretum. Thank you Shirley Fragale.

H. K. HAYS MEMORIAL LECTURE and Graduate Student Award Ceremony, Department of Agronomy and Plant Genetics, University of Minnesota, Wednesday, May 22, 8:00 p.m., 135 Earle Brown Center, Farmers are Environmentalists, presented by Elton Redalen, Commissioner, Minnesota Department of Agriculture.

TWIG BENDER

Volume 9 - #19 -- May 17, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR May 20-24

MON - Victoria Day (Canada)

Biological Forum Seminar Series,
Mapping morality:ethical issues and the
human genome project by Dr. Arthur
Caplan, Director of the Center for
Biomedical Ethics, 306 Borlaug Hall,
7:00 p.m. (coffee), 7:30 p.m. (speaker).

TUE - College of Agriculture Curriculum
Committee, 2:30-4:00 p.m., 101 Coffey
Hall.

WED - Departmental Coffee Hour, 9:30 a.m.,
394 Alderman Hall, Treats by ?
(What? No treats!).

Undergraduate Affairs Committee,
8:15 a.m., 398 AlderH.

Faculty Consultative Committee, 1:00-
3:00 p.m., 398 AlderH.

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

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

Hort 8066 - The study of strawberry
evolution and interspecific
hybridization using morphological and
molecular markers by Rick Harrison,
Graduate Student, Department of
Horticultural Science, 4:05 p.m., 394
AlderH.

FRI - Plant Hardiness Discussion, 11:30 a.m.,
398 AlderH.

MEMORIAL DAY observed Monday, May
27th. University Holiday.

CONGRATULATIONS are due to two
graduate students who successfully completed
their Ph.D. requirements and have been
awarded the doctoral degree....Frank Treadwell
on May 10 and Jim Calkins on May 16.

BREAK-INS...by now, you're all aware of the
break-ins happening at the greenhouses on
campus. Please remember that entry doors to
the headhouse and greenhouse should be
locked and windows in the headhouse should
be closed at 4:30 p.m. during the week and all
weekend. If you open a window or door, you
are responsible for making sure it gets closed,
especially the classroom. Do your part to cut
down on the amount of property stolen .
Thank you....Roger Meissner.

A PLEA to graduate students....there are no
nominations for the offices of President,
Council of Graduate Students, or Computer
Committee Chair. Please let Karl Sauter know
if you would be willing to run, or encourage
the person you nominated to accept the bid
for one of these positions. ASAP (Karl Sauter,
current grad student president).

RETURNED KEY...thanks to the honest
person who found Steve Lund's lost key to the
3rd floor lab complex and returned it to
Evonne.

AWARDS...the 1st round of garden plot
awards are in! The **Paul Li Mefluidide Award**
goes to Greg Gingera for his May 1 planting
of tomato and bean transplants. Was this a
strategic move or do you have an "in" at the
weather service for this kind of weather? The
Hardware Hank "Ace" Award goes to Erica
VanDijk for her creative use of window well
covers as a cloche. Erica - talk to Greg - you
might need those yet. The **Saddam Hussein
Award** goes to Mark Strefeler for his creative
use of bunkers in the garden. Go out and see
if you can make out Minnesota or the Grinch.
The **Sigmund Freud Anal Retentive Award**
goes to the Ozga/Reinecke plot. Their
precision in plot laying would make the U.S.
geologic survey envious (but that's another
Freudian problem). Finally, the **Len Hertz
Award** is presented jointly to all plotters for
their weed free plots! Keep up the good work
and keep your eyes open for new ideas.

VEHICLES.....the department just purchased a 1989 blue full size station wagon. The old 1979 grey wagon will be going to the auction block in November. Please remember to return all department vehicles with at least 1/2 tank of gas and in clean condition. P.S. The gas credit card will be sent to the department in early June. Please use the gas pumps on the St. Paul Campus for the new station wagon until then. Roger Meissner.

* * * * *

SURVIVORS.....of the 1991 Hort Club Spring Plant Sale! All your long hard hours paid off; this year's sale was a great success. A special thanks to all of you. Now relax; have some fun! "Mom"

* * * * *

SUMMER JOB.....Dr. Brian Smith of the University of Wisconsin at River Falls is looking for a student to work with him during the summer on strawberry research. If you are interested, give him a call at 715-425-3851.

* * * * *

STUDENTS.....if you wish to examine "Educational and Training Opportunities in Sustainable Agriculture, 4th edition, April 1991, please check with Evonne in 305 AlderH.

* * * * *

TWIG BENDER

Volume 9 - #20 -- May 24, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR May 27-31

MON - University Holiday

WED - Undergraduate Affairs Committee,
8:15 a.m., 398 AlderH.

Departmental Coffee Hour, 9:30 a.m.,
394 AlderH. Treats by Martha
Piechowski and ?????

THR - Hort 8066 - Cytokinin Synthase in
Developing Corn Kernels by Dennis
Reinecke, Research Associate,
Department of Horticultural Science.

Fourth in the 1991 Series of
Distinguished Honeywell W. R. Sweatt
Lectures in Technology Leadership
presents People, technology and
growth: how competitive are we? by
Dr. Erich Block, former Director of
NSF at 4:00 p.m., room 25 Law Center,
229 19th Avenue South, West Bank.

FRI - Plant Hardiness Discussion, 11:30 a.m.,
398 AlderH.

FINALS WEEK....June 3-8....teaching faculty
are reminded to turn in the date, time, place
of their final exam (in writing) to Evonne
before May 31. Thanks.

TIMELY MANNER....to minimize clutter in
the main office (305), please pick up your
Beckwith Copy Orders promptly. Often
orders are back the same day they are sent out.
Thank you.

NEW VEHICLE....the department has a full
sized blue station wagon available for use by
staff, faculty and employed students
conducting University business. This vehicle
can be checked out in 326 AlderH, #3471.

CONGRATULATIONS...to Dr. Jim Calkins
who passed his final Ph.D. dissertation defense
on Thursday, May 15. Jim plans to remain at
the University of Minnesota as a post doc in
the TRE Nursery Program where he is
presently preparing research and extension
activities for a major MNLA meeting on
campus this summer and he is also teaching
Plant Materials for CEE spring quarter.
Congratulations again on your significant
achievement. (BTS)

NEWS...from the Board of Regents
announcing the approved changed in
appointment from Assistant Professor to
Associate Professor for Vince Fritz.
Congratulations!

ATTENTION....students needed with audio
visual experience to help with the AABGA
(American Association of Botanic Gardens and
Arboreta) Conference at the Radisson
Metrodome (University), June 19-22. For
those who work, free registration to the
conference and free lunch on the day you
work is in the plan. This annual meeting is
hosted by the Minnesota Landscape
Arboretum so sign up now with Shirley
Fragale at 443-2882.

UPCOMING DATES....for your calendar:

COA Curriculum Committee, Tue, Jun 4,
2:30-4:00.

COA Faculty Assembly- Wed, June 5, 9-noon

Special Horticulture Faculty Meeting, Thr,
June 6, 8-noon.

TWIG BENDER

Volume 9 - #22 -- June 7, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR June 10-14

TUE - First Day of Instruction for Summer Session I.

Hort Faculty Meeting rescheduled for June 18.

WED - Coffee Hour - someone please bring treats!

THR - Last opportunity to get Spring Quarter grades in to Evonne.

HORTICULTURE Learning Garden...I would like to thank the spring plant materials class for the outstanding job they did in establishing the Horticulture Learning Garden. Several faculty have commented specifically on the precision plantings in the marigold section. Karin Lundquist will be the summer gardener. I'm sure she wouldn't mind anyone pulling the occasional weed that she might have overlooked. Bob Mullin

ATTENTION: Garden Plotters...now that the waters have subsided, take some time to get the weeds before their roots are well established. Please note that stakes, twine, hoses etc. should not be stored in or tossed into the shrub border or grass surrounding the plots. These wreck havoc upon mowers and tillers. Also, any plots not planted will be filled under on Monday, June 10.

VISITORS....to Don White's research turf area on Tuesday will be officials from the USGA.

FIRE ALARM TESTING (with horns) will begin at 10:00 a.m. each day on June 14/17 for Alderman Hall. If there is a problem with the day designated, please call Physical Plant at 4-2288 before Tuesday, June 11.

On Sunday, June 2, at the College of Agriculture Graduation, two Horticulture students graduated with Distinction: Christopher Gran and Margaret Shore. Congratulations! It is also noted to the Twig that Margaret Shore received the H. W. Mann Creativity Scholarship for the Creative Problem-Solving Institute (CPSI) during June 22-28. It is an all expense paid trip to Buffalo, New York. She was one of four that received the award. We're proud!

DISPLAY CASE next week will feature artists: Dick Wenkel, chimerical toys (toys made of many and unusual found parts), Heather Ann Kreidermacher, fine works in colored pencil and oil, Cindy Herring, stained glass artist. Coming in July - children's art. Does your child have art pieces that they would like displayed? Drop Kathy Lloyd a note and she'll organize the display. With the nurserymen's conference coming to campus in August, the display will be dedicated to a nursery theme. If you have suggestions/ideas for highlighting the industry, let Kathy Lloyd know before July 1. Kathy wants to hear from more of you out there with hobbies/talents whether it's a collection of stamps, old auto parts, ball of string, old hershey bar wrappers or whatever. We want to let people know how talented the Department is.

TWIG BENDER

Volume 9 - #23 -- June 21, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR June 22-28

SAT - Don Jacob's Plant Adventures, 1:30 p.m., Horticulture Greenhouse Classroom (172-74), reception follows at 161 Alderman Hall, Minnesota State Horticultural Society.

SUN - College of Agriculture Alumni Society Spring Picnic, 12:30 p.m., St. Paul Student Center Terrace.

TUE - Crops and Soils Field Day, Southern Experiment Station, University of Minnesota, Waseca.

THR - Faculty Consultative Committee, 8:30 a.m., 398 AlderH.

Graduate Studies Committee, 10:30 a.m., 398 AlderH. (Written prelim discussion)

BIRTH ANNOUNCEMENTS: Elliott Finn, infant son of Chad Finn and Barb Fick arrived June 11 in Columbia, MO weighing in at 8 lbs 5 oz, 21". Mother, baby and dad all doing well.

Hannah Loraine, infant daughter of Shelley Diment, born June 13, weighing 9 lbs, 21".

WELCOME BACK..to Dr. Colin Willmer, senior lecturer from the Biology Department of the University of Stirling, Scotland. Colin will be here to continue collaborative research with Ed Stadelmann on permeability of guard cell protoplasts. Colin and Ed received a NATO grant for continuation of the experimental work begun in February. Colin will be with the department til the end of August.

EXTRA PRECAUTIONS....need to be taken in guarding personal possessions during normal and after business hours, advises Richard Jones, as several thefts have been reported across campus.

SUMMER PROGRAM...a majority of visiting faculty participating in the College of Biological Sciences Summer Program are plant scientists and are very interested in developing collaborative relationships with researchers from the University of Minnesota. The CBS hosts an informal gathering each Wednesday evening at 7:00 p.m. in 128 Snyder Hall as a means of introducing faculty to each other. If you are interested in attending, you are welcome and encouraged to do so. If you have questions please see Laura Kalisch or call Sally Jorgensen (4-2244). Refreshments provided.

GRADUATE STUDENT Officers for 91-92. Congratulations to the newly and duly elected graduate student officers. Good luck and thank you!

President - Rick Harrison
GSC - Penny Aguirre, Dan Krueger, Alternate, Rick Harrison
Council of Grad Students - Greg Gingera
Faculty Meeting Rep - Jim Busse
Computer Committee Rep - Paul Johnson
Alderman Project - Maria Janssen
Seminar Committee Rep - Stephen Ryu
Social Committee Rep - Steve Lund

REPRINTS of many classical papers of the late Professor Levitt are available in room 218 AlderH. Please look them over and take what is of interest for you. The papers deal mainly with topics on plant cold hardiness. Ed Stadelmann.

FILE RECYCLING....if you are purging files or doing a general office clean-up this summer, first call **University Recycling Program** at 625-8084 so they can assist you in determining what is recyclable and provide the equipment and service needed to recycle. The U of M generates 35 tons of solid waste each working day, 60-74% of which is estimated to be recyclable. With your help and cooperation, we can reduce the University's waste - saving money as well as reducing our impact on the environment. Physical Plant Operations.

TWIG BENDER

Volume 9 - #24 -- June 28, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR July 1-5

- MON - Thesis Defense Seminar, Studies of regulated gene expression in early maize endosperm development, by Dave Culley, Graduate Student, Plant Physiology, 9:00 a.m., 306 Borlaug.
- TUE - Arboretum pick up today as Thursday is a Holiday.
- WED - Undergraduate Affairs Committee, 8:15 a.m., 398 AlderH.
- THR - Independence Day - University Holiday.
- FRI - Hort office closed.

CONGRATULATIONS....to Neil Anderson, Peter Ascher, Richard Widmer and James Luby who have been selected as the ASHS 1991 recipients of the Society's four major publications awards in the Journal or HortScience during 1990. They will be honored at an awards ceremony on Sunday, July 21 at Pennsylvania State University during the 88th ASHS Annual Meetings.

HERBS '91.....the 6th National Herb Growing and Marketing Conference will be held in Minneapolis on July 19-22. It is sponsored by the Int'l Herb Growers and Marketers Association. It is co-sponsored by the New Crops Center at Purdue University and by our own Center for Alternative Plant and Animal Products. Registration fees go up on July 1 so register now if you plan to attend. It is the best and biggest conference of its kind in the United States. For more information contact Laura McCann, 340 Alderman Hall (5-5747).

PUBLICATIONS....Junping Chen, Edward J. Sucoff, and Eduard J. Stadelmann, Aluminum and temperature alteration of cell membrane permeability of Quercus rubra. Plant Physiol. 96, 644-649.

KINDER IN THE GARTEN...by Bob Williams, The Land Stewardship letter, says there's no doubt about it, the funniest people in the country are in grade school. One incredulous lad reported, "To keep plants from getting too cold, you should put them in a cold frame. It's the oddest truth." There is usually at least an element of truth in the most absurd answer. Here are some observations that proved to be unexpected, unconventional and undeniably true: "In winter some animals hibernate, but asparagus prefers to dormant." "Vegetables is a many-purpose word for many plant types." "Some trees give us berries or cherries or plums. Others just stand around and add rings." "The main value of poison ivy in gardens is yet to be discovered." Evidently impressed with the ever changing state of the world, one tyke confided, "Pumpkins grow on vines at the present time." Sometimes a child's definition is far superior to the one you'll find in the dictionary. "Artichokes are not as dangerous as their name sounds." Cabbages look like Brussels sprouts only more so." "Eggplants are where baby chicks think they came from." "Fusarium is something only encyclopedias know for sure." "A hybrid is a thing that is not its real self." "Perennial plants live forever and maybe even longer." "Rutabagas are easier to grow than they are to spell." "Self-pollination is a plant that is its own father." Here's one I've been trying to figure out for several years: "A horticulturist is the same as a botanist except just the opposite." Oliver Wendell Homes once observed, "Pretty much all the honest truth-telling there is in the world is done by children." "Many of our weeds need some form of birth control." "A good thing to remember about picking blossoms off tomato plants is don't." "If people would always keep their moss on the north side of their fruit trees, nobody would ever get lost." Sometimes information is turned upside down in a child's mind and comes out like these comments: "Okra is a well-known vegetable few people have ever heard of." "You should always capitalize the word vegetable unless it is not the first word in the sentence." "Pepper plants can't be grown indoors unless their soil is kept moist around the clock, twelve days a week." Here's one charming as childhood itself: "How food can grow is just to admire, not to really understand." So it is with the mind of a child; a mind of such tremendous potential that it is just to admire - not to really understand.

TWIG BENDER

Volume 9 - #25 -- July 12, 1991
Editor: Evonne Kuyper

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

WELCOME NEW PEOPLE....Cheryl Reese, a new graduate student working on a Masters with John Erwin. She obtained a major in biology, minor in chemistry and a secondary education licensure from UMM. Prior to graduate school, Cheryl worked for 3M conducting experiments on a new product 3M is developing for use in HPLC studies. She originates from Hancock, Minnesota where her parents operate a hunting preserve. Say hello to Cheryl in room 462 AlderH.

A BOUNCING BABY BOY....born to Jim Luby and Emily Hoover on July 2. Ian Hoover Luby weighed 7lb 14oz, 20". Congratulations!

TOOT YOUR HORN....for Doug Foulk who passed his oral exam for the MS degree on June 14. How he begins work on his PhD and will continue as Assistant Extension Fruit Specialist through December.

The Center for Interdisciplinary Studies of Writing recently approved funding for a grant proposal written by Doug Foulk. For the next 12 months, Drs. Hoover, Ascher and Doug will explore the link between in-class informal directed writing and the ability to analyze and integrate course material.

MORE TOOTING...for Thelma Miller who successfully completed her PhD degree on June 28. We wish to much success.

PPGA awarded a \$500 Merit Scholarship to Margaret Shore. Congratulations!

COLLEGE of Agriculture, Dean's List for Spring Quarter, 1991 names the following undergraduate Horticulture students: Troy Carson, Candy Kimmes, Heather Kreidermacher, Bridgette Matzinger, Margaret Shore. We're proud of you all.

HERBS '91....the 6th National Herb Growing and Marketing Conference will be held in Minneapolis on July 19-22. It is sponsored by the Int'l Herb Growers and Marketers Association. It is co-sponsored by the New Crops Center at Purdue University and by our own Center for Alternative Plant and Animal Products. Registration fees go up on July 1 so register now if you plan to attend. It is the best and biggest conference of its kind in the United States. For more information contact Laura McCann, 340 Alderman Hall (5-5747).

INSIDE TIP....from Don White says that Computer Chrome Business Graphics duplicates slides (rush order) in 1/2 day turnaround for about .70. They are located at 2610 University Ave., 646-2442.

RELOCATED....the Troy Built tiller and checkout book have found a new home in the TRE/TURF shed. When you return the tiller, please write down the number of hours used in the book. Thank you. R. Meissner

OFF-CAMPUS HOUSING DIVISION is now open in the Office for Student Affairs, 190 Coffey Hall, St. Paul Campus. Check it out for listings of available rooms, apartments, houses, general housing questions answered. Hours open are 8-4:15 M-F. Service offered from June 5 to September 20. At other times, contact Housing Services, Comstock Hall East, Mpls Campus, 624-2994.

PHONEBOOK EXCHANGE TIME....St. Paul phonebook exchange is set for July 22. New phonebooks are left on an even exchange for the old. Please bring your old books to Kath Lloyd before July 19.

First Summer Session ends July 16 and Second Summer Session starts July 18. Grades due to Evonne on July 17.

TWIG BENDER

Volume 9 - #26 -- July 19, 1991
Editor: Martha Piechowski

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

The Midwest Plant Biotechnology Consortium (MPBC) announces its competition for 1992 research projects.

The purpose of the Midwest Plant Biotechnology Consortium is to pursue promising basic research investigations that will lead to industrial applications. Through the Consortium, university, company, and federal laboratory collaborators conduct research in plant biotechnology in efforts to:

- utilize agricultural products as new sources of chemicals, pharmaceutical, and energy;
- reduce the cost of agricultural production;
- improve utilization of existing crops; and
- develop safe environmental practices.

For more information about the 1991 MPBC Research Grants Competition and MPBC, Please contact:

Dr. Burle Gengenbach
Director, Plant Molecular Genetics Institute
MPBC Representative
625-6282

FACULTY who are interested in serving on various Fellowship committees for the Graduate School during the coming academic year should notify Laura Kalisch as soon as possible. Specifically needed are people for the Graduate School Fellowship Committee, the Doctoral Dissertation Special Grant Competition, and the various Endowed Fellowship competitions. We also need faculty members with international experience to interview and rate Fulbright applicants.

ANOTHER NEW WELCOME Mary Foster is a new graduate student working on a Master's degree with Harold Pellett. She graduated from U of WI - River Falls with a major in horticulture, and worked as Interim Manager

for the UW - RF greenhouse prior to beginning graduate school. She is at the HRC this summer and currently is assisting HRC personnel in a leaf-drying study as a possible screen for drought-tolerance in tree species.

MISSING The following items are missing from the 4th floor lab: 25 ml Brinkman Dispensette, a pair of autoclave gloves and the slide viewer. People are in need of these items and would appreciate it if they were returned immediately.

POSSIBLY ON THE LIGHTER SIDE Bert Swanson is planning to have a slide show soon on his recent experiences in the Philippines.

NEW BECKWITH HOURS The Beckwith messenger will be on campus three times a day from now on. Emergency pick-ups can be arranged through your secretary.

ANNUAL HERB SYMPOSIUM The Minnesota Landscape Arboretum is hosting the Seventh Annual Herb Symposium Thursday through Saturday, August 15-17 at the Arboretum's Snyder Building. Deadline for registration is Aug. 12. Please call the Arboretum at 443-2460 for details.

Minnesota State Horticultural Society (MSHS) is pleased to announce three part-time job openings available immediately. Any interested candidate should submit a resume and salary requirements to MSHS by July 27. The jobs are Human Resources Coordinator, Public Relations Coordinator and Word Processing Secretary. For more information call 624-7752.

TWIG BENDER

Volume 9 - #27 -- July 26, 1991
Editor: Evonne Kuyper

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

VEHICLES....the department currently has six vehicles, the newest being a blue cargo van (#3546). Numbers #3706 and 3546 can be check out through Roger Meissner in the greenhouse. Vehicles 3411, 3420, 3471 and 3434 can be check out in room 326 AlderH, keys are in the main office (305).

WEEDING.....you're encouraged to weed and generally get your garden plots in 'good lookin' condition by August 4. Thank you for your cooperation.

GROWER DAYS 1991 - West Central Experiment Station, Morris, MN, July 31, 1-4 p.m.

Program

- 1-4 Trade Show (Vaughan's Seed Co., Malmborg's Inc., Minnesota Distributing and Mfg. Inc.)
- 1:30 Water Stress & Plants - Dr. Albert Markhart
- 2:00 Comparison of Greenhouse Media - Deb Schwarze
- 2:30 New Bedding Plants for 1991 -Dr. Anne Hanchek and Steve Poppe
- 3:00 Tours of trial gardens

AUGUST CALENDAR

MNLA Summer Meeting and Trade Show....August 8, 1991, St. Paul Campus, corner of Gortner and Folwell.

Calling all Poster Presentations. Do you have a poster presentation that you would like to set up in the Hort Greenhouse classroom for nursery, garden center and landscape professionals to view? If you're interested in displaying your work on August 8th during the MNLA Summer Meetings, please contact Bert Swanson (4-7432) or Jim Calkins/Debbie Newman (4-9231). MNLA Summer Meeting and Trade Show registration form attached.

INVITATION....Southern Experiment Station cordially invites you to dinner and a presentation by Dr. Ronald L. Phillips, Professor of Agronomy & Plant Genetics, August 8. Social hour, 6:00 p.m., dinner, 7:00 p.m., 8:00 p.m., presentation. Cost: \$8/person...RSVP by August 2 (507-835-3620). Location: American Legion Club, 700 South State Street, Waseca, MN. Dr. Phillips was elected to the National Academy of Science in 1991 in recognition for his work in the genetic engineering of corn. He will discuss this developing field of biotechnology and what can be expected in the future for corn producers.

MN LANDSCAPE ARBORETUM, 7th Annual Herb Symposium, August 15-17, 1991, Snyder Building. New trends in herbs is the focus of this years' herb symposium. Topics to be covered include cooking styles with a flare of Mexican and southwest flavors and many dishes are decorated attractively with edible flowers. We are shying away from chemicals and using alternative ways to rid plants of insects. Another topic is children are more involved in gardening. Miniature gardens grown in containers are ideal for the person with little time or little space for herbs. Medicinal herbs is a much talked about subject these days. These are just a sampling of the topics for the 1991 Landscape Arboretum Herb Symposium. Guest lecturers will be coming in from various parts of the country as well as local speakers to share their knowledge in these subjects of herbs. Plan now to come and enjoy three days of herbs, herbs, and more herbs. Dress comfortably as the Snyder Building is not air conditioned. For program information, contact Theresa Mieseler or for registration information, contact Pat Madden (612-443-2460).

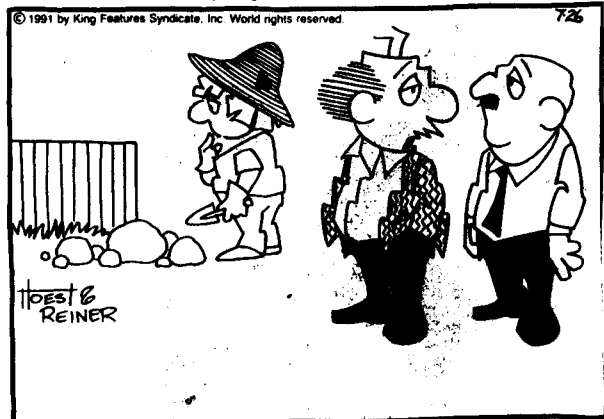
DEADLINE August 31, 1991...call for poster papers and invitation to participate in the American Farm Bureau Research Foundation's 1992 National Annual Meeting, January 12, 13, 1992, H. Roe Bartle Convention Center, Kansas City, Missouri.

1991 ANNUAL EDUCATIONAL CONFERENCE, sponsored by the Minnesota Hort Society, August 16-18, Rochester, MN. In the spring of 1866, something special was planted in Rochester, Minnesota: the Minnesota State Horticultural Society. It is fitting that this birthplace will host the Society's 125th Anniversary Educational Conference. Home gardeners from around the state, who share the love of soil and seeds, will come together to learn and share information during panels, lectures, and workshops given by home gardeners and professional horticulturists in areas such as landscaping, vegetables, flowers, and floral design. In all, over 40 presentations will be offered to provide a wealth of information for all gardening enthusiasts. Themes include gardens of today and tomorrow, Northern horticulture history and future, floral design, community gardening and group leadership. Sessions will cover the basics for new gardeners or in-depth topics for experienced gardeners. A nominal registration fee covers entrance to gardening sessions both Friday and Saturday. On Saturday, the Gardener's Market trade show and a horticulture/flower show are open to the public without a charge. Gardener's Market is open from 9-5 and will showcase a variety of horticulture-related products and services. The horticulture / flower show features flowers, vegetables, and indoor plants, and is open to the public from noon to 5 p.m. Festivities will begin Friday afternoon with a welcome at 1:30 and program sessions from 2-5. A get-acquainted picnic will complete the evening. Saturday includes a full day of sessions, with several topic options each hour. An awards banquet will honor Minnesotans' horticultural accomplishments. Sunday's activities will center on exploring public and private gardens in Rochester, Austin, or Northern Iowa areas. Five separate bus tours are planned. The event is being coordinate by Hort Society members and several area garden clubs. The public is invited to participate in the conference. For a full description of the presentations, tours, speakers and registration information, contact the Society by dialing 1-800-676-MSHS. News release by Dorothy Johnson.

DEADLINE September 1, 1991, Annual Travel Awards, Xi Chapter, Sigma Delta Epsilon/Graduate Women in Science. Posting on bulletin board across from grad mailboxes.

COLLOQUIUM....The Minnesota Landscape Arboretum and Department of Horticultural Science invite your participation in the Native Plants Research Colloquium, Monday, September 16, 1991 at the MN Landscape Arboretum, Chanhassen, MN. Contact Dr. Anne Hanchek (612-443-2460/612-624-1706) if you wish to contribute oral and/or poster presentations and exhibits. Registration fee: \$20 by September 6, \$25 late registration. Registration forms available by calling 612-443-2460.

The Lockhorns / By William Hoest



"Loretta started a rock garden. So far, four rocks have died."



Minnesota Nursery and Landscape Association
and University of Minnesota Extension Service

LANDSCAPE TOUR AND GARDEN CENTER TOUR

Wednesday, August 7, 1991- Buses depart Eden Prairie Center parking lot at 9:00 a.m. sharp and return approximately 4:00 p.m.

Ninety persons per tour (two buses) will be accepted on a first come first served basis.
Pre-Registration Required

LANDSCAPE TOUR

Please reserve _____ persons for the MNLA Landscape Tour (including lunch) at \$17 per person.
Total _____
Names of participants: Landscape Tour _____

GARDEN CENTER TOUR

Please reserve _____ persons for the MNLA Garden Center Tour (including lunch) at \$17 per person.
Total _____
Names of participants: Garden Center Tour _____

SUMMER MEETING & TRADE SHOW



Thursday, August 8, 1991

University of Minnesota St. Paul Campus, corner of Gortner and Folwell

MNLA members, guests and exhibitors will enjoy the Annual Summer Meeting and Trade Show. Daylong refreshments include coffee and doughnuts, lavish Tinucci picnic luncheon and your choice of three beverages.

Please reserve for _____ person(s) at \$18.00 per person, including three beverage coupons. On-site registration is \$25.00 per person.

TOTAL _____

Names of those attending the MNLA Summer Meeting and Trade Show:
(Please list as they should appear on the nametag)

CHILDREN'S TOUR

Thursday, August 8, 1991

Please reserve _____ for the children's tour at \$18.00 per person. Registrations must be received on or before Monday, July 15 and children under the age of six must be accompanied by an adult.

Names of those attending:

REGISTRATION SUMMARY

Wednesday, August 7	Thursday, August 8	Grand Total _____
Landscape Tour Total _____	Summer Meeting & Trade Show Total _____	<input type="checkbox"/> Check enclosed
Garden Center Tour Total _____	Children's Tour Total _____	<input type="checkbox"/> VISA <input type="checkbox"/> MasterCard
		Card No. _____
		Signature _____

Firm Name _____
Address: _____ City/State/Zip _____
Signature: _____ Phone _____

Special Invitation

WELCOME RECEPTION

Wednesday, August 7

at Metrodome Hotel
Bar and Complimentary
Hors d'Oeuvres
Ticket Required

Names of those attending:

MAKE CHECKS PAYABLE TO AND MAIL TO:

Minnesota Nursery and Landscape Association

P. O. Box 130307 • Saint Paul, MN 55113 • Phone (612) 633-4987 • Fax (612) 633-4986

TWIG BENDER

Volume 9 - #28 -- August 2, 1991
Editor: Evonne Kuyper

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

VACATION.....Laura Kalisch will be on vacation August 5-9. She will be checking her voice mail, however, should you need to reach her for any (important) reason.

STATE FAIR....August 22-September 2. Again, volunteer booth attendants are needed. Shifts are from 8:30-12:30, 12:30-4:30 and 4:30-9:00. Check with Evonne in the main office for a form which must be turned in before August 6th.

MNLA TRADESHOW/SUMMER MEETING will be held on campus, August 8. Approximately 1200 visitors are expected to be here touring our campus. It would be greatly appreciated if everyone in the department pitches in and cleans labs and public office areas before the days end on Tuesday, August 6. The garden plots are in desperate need of thorough weeding and cleaning. We really want to present our campus and horticulture in the best possible light to the many industry and education representatives from throughout the 5-state area. We need everyone's cooperation, so please do your part. Thanks for your help. (L.K., Assoc. Admin.)

IN THE SAME LIGHT....on August 6th at 0930 a.m., there will be a information meeting for all tour guides, drivers and others involved in the MNLA meetings in room 172 Hort Greenhouse. There will be 125 exhibitors on the lawn and road between Alderman Hall and the Hort Greenhouses. Exhibitors will set up on August 7. Therefore, Folwell Avenue will be closed on Wednesday and Thursday (August 7 & 8). Campus traffic will be detoured from Gortner east past weather station, south past TRE Nursery, and back west past Crops Research Building to Gortner. Scheduled tours will be given through Alderman Hall and several other areas and buildings on campus. Continuous tours will take place through the TRE Nursery.

FALL QUARTER.....begins Monday, September 23!

OUT OF THE OFFICE.....Evonne will be taking a word perfect class on Wednesday and Thursday (in case you miss me).

DEADLINES....a publication by the Office of Research and Technology Transfer Administration, is available for faculty perusal from Laura Kalisch. Copies are available to departments on a quarterly basis to keep you abreast of grant opportunities.

CALL FOR PAPERS & POSTERS, ISHS Symposium on Soil and Soilless Media under Protected Cultivation in Mild Winter Climates under the patronage of H. E. Prof. Dr. Youssef Wally, Deputy Prime Minister and Minister of Agriculture and Land Reclamation Egypt, March 1-6, 1992, Cairo-EGYPT. See posting across from faculty mailboxes.

THAT'S ALL FOLKS!

TWIG BENDER

Volume 9 - #29 -- August 9, 1991
Editor: Evonne Kuyper

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

HORT FACULTY....meeting on Tuesday,
August 13, 8:30 a.m., 394 AlderH.

VACATIONS.....

Evonne Kuyper	-	August 9-19
Laura Kalisch	-	August 16-27
Fernande Rodgers	-	August 26
Angie Klidzejs	-	back in office 8/27
Martha Piechowski	-	August 23, 29, 30
Kathy Lloyd	-	August 28

BIRTH ANNOUNCEMENTS.....baby boys to
Bud Markhart and Van Cline named Bryan
and Christian and baby girl to Greg Kerr
named Melissa. Congratulations!

FREE CAT & KITTEN.....3 yr old calico cat
(female) and 7 week old black with green eyes
kitten. Call Kath Lloyd (4-4742).

T R E NURSERY TOUR....for interested
departmental faculty, staff, -students on
Monday, August 12 at noon. Meet at the
headhouse.

MN STATE HORT SOC....1991 Annual
Educational Conference, August 16, 17, 18, at
Rochester, Minnesota.

MN LANDSCAPE ARBORETUM....Seventh
Annual Herb Symposium, August 15-17,
Snyder Building, Chanhassen, MN.

LAST MUSIC NIGHT....performance of the
summer tonight, August 9 at the Minnesota
Landscape Arboretum, 7:00 p.m. The
University of Minnesota Alumni Band will
perform show tunes, marches and overtures at
this free outdoor presentation (Margot Picnic
Area).

A MIDSUMMER CHINA FESTIVAL....with
entertainment, demonstrations, art and food
from China for all the family will be Sunday,
August 11, 1-4 p.m. at the University of
Minnesota Landscape Arboretum west of
Chanhassen. The festival is sponsored by the
University of Minnesota Art Museum, which
has an exhibit of Chinese fisherfolk paintings;
the University China Center, which
coordinates the University's exchanges with
China, and the Arboretum. Artists and
artisans will be at sites throughout the gardens
and grounds to demonstrate Chinese
watercolor painting, calligraphy, Chinese
chess, techniques of bonzai and flower
arranging, and taiji sword skills. Children are
invited to make their own Chinese paintings.
Musical performances, snacks for sale and art
in the Andersen Horticultural Library will add
to the focus on China. Paintings in the library
are part of the museum's exhibit, "Laughter in
the Palace of the Dragon: Chinese Fisherfolk
Painting," through August 25 at their Northrop
Auditorium location. The Minnesota
Landscape Arboretum is on State Highway 5,
9 miles west of 494. Admission for non-
members is \$3 for adults; #1 for children
under 16; free for children under 16 with their
parents. FFI call 612-443-2460.

TWIG BENDER

Volume 9 - #30 -- August 16, 1991
Editor: Martha Piechowski

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

American Farm Bureau Research Foundation's 1992 National Annual Meeting is taking place January 12 and 13, 1992 in Kansas City, MO. The deadline for applications is August 31, 1991. For questions and forms please call Don Rawlins at 312-399-5785.

We are looking for news about distinguished guests and lectures, faculty going abroad to work on projects, scholarships won by our students, any award or honor given anyone in the department, plant introduction, research discoveries (particularly those with practical implications for the general public within the foreseeable future), cooperative ventures with professional organizations and other agencies, alumni success stories you hear about and anything else newsworthy. The P.R. Committee: D. Brown, A. Hanchek, J. Erwin, M. Strefeler & P. Olin. We want to let the community know more about horticulture and our department.

Greenhouse Space Allocation by Roger Meissner. Project leaders: Please remember to submit your request for greenhouse space allocation for the upcoming year to either Don White or Roger Meissner by no later than August 21. This will be your last notice. If we do not receive your request by then, no greenhouse space will be allocated for your project.

Greenhouse Parking by Roger Meissner. I have been informed by the U of M police department that ticketing of vehicles parked around the greenhouse facility will commence on Monday August 19 and continue throughout the school year.

Styrofoam peanuts by Ken McNeil. Please take your styrofoam peanuts in big plastic bags labeled for recycling to the xerox room for pick up. Pick up is usually every other Friday.

Room changes by Kathy Lloyd. Cindy Tong Room 434, phone 4-3419. Anne Hanchek, Vince Fritz, Harold Pellett and Merv Eisel Room 362, phone 4-1706.

Children's art display by Kathy Lloyd. Hey gang (moms, dads, aunts, uncles, grandmas and grandpas)! I would like to set up a display of your child's art work. Please give me a picture of your child and a biography of them along with the art, etc. I will be setting up on August 21 or 22.

Computer Information Center User Group Meeting, 26 August, Cafe. Conf. Room, AdmSvCtr, 1919 University Ave., 2:30-4:15.

Grand Rapids Pick O' the Harvest Walking Tours and Bedding Plant Grower Days at the University of Minnesota, North Central Experiment Station, 1861 Hwy 169 East, Grand Rapids. Walking Tours are from 3:30 to 6:30 pm, Wednesday, August 28. The public is cordially invited to attend. August 29 from 1-4 pm is the Bedding Plant Grower Days segment. Drs. Gardner, Strefeler, Erwin and Deb Schwarze are participating in the program. Call Dave Wilding at 218-327-4490 with questions.

Dr. Bert Swanson is to be congratulated on the huge success of his most recent UM TRE Nursery and MNLA production, "Landscape and Garden Center Tours and Summer Meeting and Trade Show of August 8". A cast of hundreds is listed on the reverse side. Thank you, Bert, for the caps, T-shirts and the delicious luncheon catered by Tinucci's.

The Hort Staff

OVER

UNIVERSITY STORES will host its 4th Annual Open House on September 12 and 13 from 10-4 p.m., at 2901 Talmage Avenue S.E. Get a load of the theme this year "Don't waste our 'U', Reduce, Recycle, and Reuse." Come meet the staff, visit 40+ scientific and general supplies vendors and enjoy free food. Door prizes also so don't miss it.

ASSISTANT PROFESSOR, Department of Horticulture and Landscape Architecture, Washington State University, Pullman. Minimum of MLA, MSLA or other terminal degree in a closely related field with at least one degree in landscape architecture. Closing date revised to August 13.

EXTENSION ECONOMICS & ASSISTANT/ASSOCIATE PROFESSOR, Dept of Agricultural Economics & Rural Sociology, Auburn University, AL. Closing date: 9/30/90.

EXTENSION ASSISTANT PROFESSOR-Seed Potato Specialist, Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, Idaho.

ENDOWED CHAIR in Molecular Genetics Applied to Crop Improvement, Department of Agronomy & Plant Genetics, U of M. Closing date revised to 10/31/90.

ENVIRONMENTAL PLANT PHYSIOLOGIST, Statewide Air Pollution Research Center, University of California-Riverside. Closing date: 9/30/90.

POSITION ANNOUNCEMENTS**For more information regarding the above employment opportunities, see the **Employment opportunities** book located above the graduate student mailboxes.**

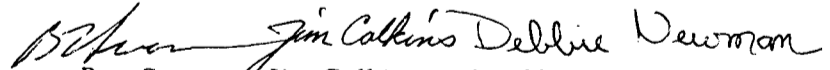
Have a good week!

On behalf of the UM TRE Nursery Program and the MNLA, we want to thank every individual in the Horticultural Science Department and many others throughout the College of Agriculture and the University for the outstanding effort you put forth to ensure a successful presentation to the Nursery, Garden Center and Landscape Industry on August 8th. We especially acknowledge those of you who have gone out of your way to be helpful these past several weeks:

Heather Albrecht	Jim Heinz	Martha Piechowski
Tom Almquist	Vice President Clint Hewitt	David Pitt
Vice President Gene Allen	Mary Beth Hoover	Margorie Pitz
Dr. Neil Anderson	Mark Hove	Jill Pokorny
Dr. Mark Ascerno	Roger Huss	Charlie Pooch
Dr. Peter Ascher	Angus Irvine	Lester Potts
Cindy Ash	Dr. Kevin Janni	Dr. Carl Rosen
Bob Baker	Beth Jarvis	Grace Rowland
Dave Bedford	Dorothy Johnson	Mark Sackett
Phil Bird	Paul Johnson	Karen Schaller
Jean Bollig	Dean Richard Jones	Denny Schrock
Deb Brown	Mary Joyce	David Schmidt
Dr. John Carter	Laura Kalisch	Sharon Sidenbender
Matt Chartier	Greg Kerr	Bill Stallman
Lee Clapsadle	Tom Kidd	Lynn Steiner
Phil Clausen	Dan Krueger	Joe Stevens
Joel Christiansen	Greg Krueger	Dr. Mark Strefeler
Walt Day	Evonne Kuyper	Theresa Stockdale
Kurt Dingman	Martha Laudert	Bill Swanson
JoAnn DeVries	Scott Lejonvarn	Darlene Swanson
Merv Eisel	Katherine Lewis	David Swanson
Dr. Alan Ek	John Lloyd	Paul Swedenburg
Scott Endres	Kathy Lloyd	Fran Trojanek
Marna Erickson	Karin Lundquist	Lt. Bruce Troop
Dr. John Erwin	Roger Meissner	UM Voluntary Medical Group
Doug Faulk	Gerard Meyers	Tim Viker
Debby Filler	Dr. Gerry Miller	Jimmy Walker
Dr. David French	Peter Moe	Holly Ward
Dr. Gary Gardner	David Morlock	Tom Warnke
Dr. Phil Goodrich	Dr. Bob Mullin	Ken Yliniemi
Eunice Hansen	Bob Munter	Dick Zibel
President Nils Hasselmo	Dr. Harold Pellett	

The TRE personnel really appreciate your thoughtfulness and dedication.

Thanks again.


Bert Swanson, Jim Calkins, and Debby Newman

TWIG BENDER

Volume 9 - #31 -- August 23, 1991
Editor: Evonne Kuyper

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

END OF THE SUMMER OUTDOOR HORT GET-TOGETHER.....think of the cool outdoors, the sun, the turf, the "surf", the "beach" - where else could you experience all these wonderful summer things one more time before the Minnesota cold sets in? On the golf course, where else? Yes, it's time for you golfers, and those of you who have never tried, to hit the links. The grad students are planning a Best Ball Golf Scramble. In this type of tourney, experienced golfers and non-golfers are placed together to form a four-some using the BEST BALL (lowest score by the group) as the "group" score. There will also be a potluck picnic after. Show your interest by signing up and indicate a preferable September weekend date. It's located across from the grad mailboxes. This is for all in the Hort Department...come join in the "End of the Summer Get-Together". Thank you.....Steve Lund, Chair.

LEAVING US....Julie Meyer, accounting, will be leaving the department at the end of August. We wish Julie the best of luck in her new endeavor, Graduate School. We'll miss her. As of September 1, such things as packing slips, storehouse orders, payroll envelopes to recycle and photo lab slips should be placed into either Dan Gulbrandson's or Heather Albrecht's mailbox. Thank you.

SAME PAPER, 2ND AWARD.....1991 Kenneth Post Award to Neil O. Anderson, "Rapid Generation Cycling of Chrysanthemum Using Laboratory Seed Development and Embryo Rescue Techniques". Kenneth Post was a great floricultural teacher and researcher. Congratulations, Neil!

PICK O'the HARVEST...Horticulture Tour, Wednesday, August 28, 3:30 - 6:30 p.m., University of Minnesota, North Central Experiment Station, 1861 Hwy 169 East, Grand Rapids. (218-327-4490)

FOUND....a carousel of slides were found at the West Central Experiment Station in Morris. It is believed to belong to someone in the Hort Dept. Contact Morris.

MINNESOTA STATE FAIR...will make entrance to campus difficult after work and weekends. The gates at the following intersections will be locked by the U of M police at 5:30 p.m. of each normal work day: Larpenteur/Gortner, Gortner & Commonwealth, Roadway between Ag Engineering & Classroom Office Bldg, Boyd & Commonwealth. NOTE: Folwell and Cleveland is the entrance to campus during off hours. Please show your staff or student ID to officer to gain entrance to campus. Buford in front of SPSC will continue to serve as EXIT from campus. Good luck.

THE AMERICAN-SCANDINAVIAN FOUNDATION....announces awards for study in Scandinavia 1992-93. Through its grants and fellowship program, ASF encourages advanced study and research in the Scandinavian countries. Awards are open to U.S. citizens and permanent residents who will have completed their undergraduate education at the time their overseas program begins. Application may be made for either a grant (normally \$2,500) or a fellowship (\$15,000), not both. Competition opens August 1, with deadline of November 1, 1991. FFI check posting across from grad mailboxes.

NSF announces 1992 Postdoctoral Research Fellowship in Plant Biology. Deadline for applications is November 1, 1991. See Evonne for further details and application forms.

CROOKSTON HEADS AGRONOMY...Dr. R. Kent Crookston has been appointed as Head of the Department of Agronomy and Plant Genetics. He served as interim head for several months prior to this appointment. Our congratulations are extended.

WHAT'S PLAYING IN PEORIA? From August 25-30, it's the National Association of County Ag Agents. Denny Schrock will be attending to receive the Achievement Award. Through peer selection, one agent from each state is chosen as the recipient of this award. Criteria include excellence in extension program development and involvement in the association. Congratulation, Denny!

PRESENTING....the new and improved Cherrywood Room. After some remodeling, the Cherrywood Room will reopen on September 16. They have expanded the line to speed up service and add variety. Although there will no longer be a salad bar, there will be more prepared fresh salads, sandwiches, and deli plates. Hand-carved meats on Wednesdays and soup/sandwich specials on Tuesday/Thursdays. Special offerings include: a call-in service for daily menu info, a conference service reserving Cherrywood Room to open early/stay late to commodate conference or meeting groups, additional seating in the new Dexter Room.

MINNESOTA HISTORICAL SOCIETY'S Oliver Kelley Farm will re-create a 19th century pioneer harvest ritual over Labor Day Weekend on August 31, September 1 and 2 from noon to 4 p.m. Horses will work a treadmill powering an 1856 - era threshing machine and the pioneer flail will be demonstrated in the barn. "Seeds from the Past: Historical Gardening" will be featured Sunday, August 25. The Kelley Farm is located 2 1/2 miles southeast of Elk River on US Hwy 10. Admission is \$3 for adults, \$1 for senior citizens and children 6-15, age 5 and under are free when accompanied by an adult. FFI call 612-441-6896.

CHILDREN'S ART DISPLAY...in the Alderman Hall lobby display case. Moms, dads, aunts, uncles, grandmas and grandpas are encouraged to show off their kids/grandkids art. Kath Lloyd will be setting up the display of your child's art work. Please give ~~me~~ a picture of your child and a biography of them along with the art, etc. Deadline for submitting articles is August 28 to be ready for "SHOWCASE SEPTEMBER".

TRE NURSERY license (document) was delivered to "someone" in the Hort Department on August 8th as per the MN Dept. of Agriculture. If you were or know of that "someone", please give the license to Bert Swanson. Thank you.

TWIG BENDER

Volume 9 - #32 -- August 30, 1991
Editor: Heather Albrecht

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

WEEKLY CALENDAR SEPTEMBER 2-6

MON - LABOR DAY - University Holiday

TUE - Undergraduate Affairs Committee Mtg
8:30am - 398 Alderman

Faculty Consultative Committee Mtg
3:00pm - 398 Alderman

WED - Place apple orders with Kathy!!

THR - WRCC-58 Annual Conference
Sept. 5, 6 & 7

North American Grape Breeders Conf.
Sept. 5, 6 & 7 Arboretum & HRC

FRI - Oh, what a day!!

A WARM WELCOME

We welcome Maria Marcano, who arrived this week from Venezuela for graduate study in plant breeding. Maria is a graduate of Central University of Venezuela and is an employee of Fundacion Servico para el Agricultor (FUSAGRI). Maria and her family will soon take up residence in an apartment near the St. Paul campus. They may be able to use some short-term help in securing furnishings for housekeeping. Faculty contact DWD, Rm 320.

APPLE HARVEST

Apple harvest is ahead of schedule. Varieties are ripening one to two weeks ahead of normal this season. We have a great selection of varieties to choose from. There are usually between 15 & 20 different named and numbered varieties on the floor. There is a good supply of Beacon, Wealthy, Chestnut Crab, caramel apples and cider. For a daily recording of available varieties, call 474-9940. Proceeds support the fruit research program at the Horticultural Research Center.

Notice of Intent to Fabricate

Any groups that I have not previously contacted, who would like to put in an order

for the ubiquitous 14" X 24" redwood and screen autoclave trays, should do so by Sept. 5th. The projected manufacturing run will be during the third week in September. Estimated cost per tray is \$15.00. Dave Olson

FERNANDE'S B-DAY CAKE Laura's Recipe

1 Chocolate cake mix
1 box of chocolate pudding (4 serv. size)
4 eggs
1/2 cup water
1/4 cup oil
1 cup sour cream
1 tsp. vanilla
1 package of chocolate chips

Mix well and bake at 350° for an hour.

CHILDREN'S ART DISPLAY

Kathy Lloyd is still looking for artwork from a child you are proud of and whose work you would love to boast about. Please include a photo and biography with the art. **New deadline...September 6th. Start looking!!**

CONGRATULATIONS

We would like to congratulate Linda Jorn who passed her final oral exam on August 26th and now holds her Master's Degree.

FOOD, FUN & FROLIC

Now that I have your attention...Don't forget to sign up for the golfing and picnic get-together to wind up the summer and have sum fun. Open dates are Sept. 14 & 21. Indicate your preferred day on the list by Sept. 4th. Don't be chicken...it's best ball! Steve Lund

THANKS!!

Thanks are in order to Evonne Kuyper for extending me this task of compiling the TWIG. I was loving every minute of it!!

TWIG BENDER

Volume 9 - #33 -- September 6, 1991
Editor: Martha Piechowski

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

September 9-13

TUE - Faculty Meeting, 8:30 a.m., 394 Alderman

Farewell lunch for Nancy Hinrichs at the Greenhouse at noon

WED - Civil Service Staff Meeting, 9:00 a.m., 394 Alderman

Apple orders due to Kathy Lloyd. Correction on phone # for Apple House, 474-9440.

Native Plants Research Colloquium, Monday, September 16, 1991 at the Arboretum. Registration is \$20.00. The program starts at 8:30 a.m. The morning sessions will focus on invasive species on existing plant communities. The afternoon will be open to contributed presentations on any aspect of native plant research. Drs. White and Anderson will be part of the program.

A Warm Farewell. You are invited to bring your lunch to the headhouse classroom at noon on Tuesday, September 10th to wish Nancy Hinrichs farewell as she departs the University for a new employment experience. Charcoal and a grill will be available to encourage you to barbecue for this festive luncheon.

Signe Betsinger is planning to "shop for research funding" in Washington, D.C. during the week of October 7. Your abstract should be no more than one page and is needed by Friday, September 27. Please see Evonne for details of this opportunity.

Growth Chamber Purchase. The growth chamber subcommittee will hopefully meet within the next week to discuss options for the next chamber to be put out on bid. This group will consider any user input as to chamber features now lacking in presently available department units. Please make your opinions known to Dave Olson ASAP. As you know, the "Squeaky Wheel" rule still applies.

Free Computer Classes will be offered to fulltime faculty on September 17, 9:00 to 12:00 in 305 McNeal Hall. Find out how computers can assist you with instruction, research and development. Call

625-1300 to register for either IBM or Macintosh classes. This free class includes full, associate, assistant professors and instructors. Class size is limited on first come basis. A class is scheduled on Mpls campus for September 19.

Training for **CUPS COA** will take place in September and October. This applies to a new accounting procedure being implemented and will be offered in a one-half day session. Please see Laura Kalish for details.

A boy, **Jeroen Willem**, was born to Erica and Loen van Dyk on August 30th weighing a whopping 7 lb. 7 ozs. Congratulations!

A final date has been set for the **Golf/Picnic**. It is Sunday, September 22. Golfing will start at 11:00 at the University course on Larpenteur. Leave Steve a note if you haven't signed up yet.

First International Symposium on the Biology of Adventitious Root Formation to be held at the Texas A&M University Research and Extension Center, Dallas, TX. Please see Evonne for a registration form.

The **National Dahlia Show** to be held at Northtown Mall Saturday and Sunday, September 14 and 15. The Northtown Mall is 3½ miles north of I-694 on University Ave. NE.

For Sale: Lotus 3.01, unused, with full documentation and support. 5¼ inch disks. \$100.00 (bookstore price \$130.00). Contact Heidi Mickelson at 645-5952.

The "**job opportunity book**" is missing from the back hallway. Please return.

A note to people in the department sending out **packages to foreign countries**. Please indicate **how** the package is to be sent--air, printed matter, etc. Also put your name on the package. Ask Heather or Martha if you have questions on how to send your foreign mail.

TWIG BENDER

Volume 9 - #34 -- September 13, 1991
 Editor: Evonne Kuyper

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

WEEKLY CALENDAR September 16-20

MON - Native Plants Research Colloquium,
 Minnesota Landscape Arboretum,
 8:30-4:30.

TUE - Undergraduate Affairs Committee,
 8:15-10:30, 398 AlderH.

Tour of the UM TRE Nursery
 Program, 2:00 p.m., meet at the
 Horticulture Headhouse.

Free computer class for faculty, 9-12,
 305 McNeal Hall, St. Paul Campus.

WED - Deadline each week to place an apple
 order. Check with Kathy Lloyd in
 main office.

THR - Free computer class for faculty, 9-12,
 26 Lind, Mpls Campus.

FRI - Advances in Minnesota Horticulture
 and Founders Reception, 6-9 p.m., at
 the Snyder Building, Minnesota
 Landscape Arboretum. Displays may
 be viewed from 9/21 to 10/6 during
 regular Arboretum hours. Co-
 sponsored by MN State Hort Society
 and MN Landscape Arboretum.

1991-92 UNIVERSITY RENTAL RATES

CATEGORY	MINIMUM(1)	DAILY	WEEKLY	MONTHLY	MILEAGE(2)
Compact Sedan	\$17	\$25	\$140	\$420	\$0.12
Inter. Sedan	18	27	150	450	0.12
Full Size Wagon	21	31	170	510	0.15
7 Pass Mini Van	22	32	175	525	0.15
Full Size Cargo Van	20	30	165	495	0.22
5 Pass. Van	21	31	170	510	0.22
8 Pass. Van	24	35	195	585	0.22
15 Pass. Van	28	39	215	645	0.22
3/4 ton Pickup	19	28	155	465	0.22
Furniture Van	31	46	255	765	0.55

HORT GOLF OUTING/PICNIC....set for
 September 23 at the U of M course. Be there
 at 11:00 a.m. Steve Lund.

Come to the HRC APPLE HOUSE (located 2
 miles west of the Minnesota Landscape
 Arboretum on Hwy 5) for a good selection of
 mid-season varieties. This week, Chestnut
 crab, Beacon, McIntosh and Cortland, are in
 good supply. There is a limited supply of Red
 Baron and Sweet 16 plus many numbered
 research varieties. While you're there, pick
 up some fresh pressed cider and caramel
 apples. Hours are 10-5 M-f and 10-6 Sat &
 Sun. Call 474-9440 for a recorded list of
 varieties available each day.

COA Curriculum Committee will be meeting
 during fall quarter on the following dates
 between 1:30-3:00, room 101 Coffey Hall.

Friday, September 27
 Friday, October 11
 Friday, October 25
 Friday, November 15

RETIREMENT PARTY DATE SET....mark
 your calendars now for November 1,
 1991...Len Hertz and Ed Stadelmann will be
 feted with a retirement party. Place: Schone's
 Gasthaus Bavarian Hunter, 8390 Lofton Ave.,
 Stillwater, Time: 6:00 p.m., dinner at 7:00.
 More information to follow. Laura Kalisch
 and Kathy Lloyd.

RETIREMENT OFFICE MOVES....to Plato
 Blvd and Lafayette Road at the south end of
 the Lafayette bridge, 3rd floor of the bank,
 parking is free in the bank lot. Minnesota
 State Retirement System, 175 West Lafayette
 Frontage Road, St. Paul, MN 55107-1425,
 612-296-2761.

TWIG BENDER

Volume 9 - #35 -- September 20, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR September 23-27

MON - First day of classes, Fall Quarter.

Undergraduate Affairs Committee,
10:30 a.m., 394 AlderH.

Plant Breeding Seminar, Genetic transformation and inheritance in maize, Ron Lundquist, 306 Borlaug Hall, 4-5 p.m.

TUE - Main office meeting, 1:00 p.m., 398 AlderH.

WED - Department Coffee Hour, 9:30 a.m., 394 AlderH. Come and get acquainted with all the new people abroad. Treats by Evonne and Kathy.

Department Seminar, Science and scenery in Scotland, Dr. James Luby, 4:05 p.m., 415 AlderH. Coffee, tea and cookies at 3:50 p.m.

FRI - Ph.D. defense seminar, Resistance of maize to European corn borer damage and its relationship to larval behavior, Elizabeth Lamb, plant breeding graduate student, Horticultural Science, 1:00 p.m., 394 AlderH.

NEW GRADS....in Horticulture....welcome to Cheryl Reese (MS/Erwin), Mary Foster (MS/Pellett), Kerstin Concibido (MS/Strefeler), Gerard Engelen (MS/Erwin), Maria Marcano (MS/Davis), Julia Bohnen (MS/Hancheck), Richard Peasah (MS/Tong), Robert-Jan Quene (PhD/Strefeler).

WELCOME VISITORS....Dr. Maria Concepcion Sanchez (Conchi) will be working with Drs. Wesley Hackett and Alan Smith for one year on root initiation potential in relation to maturation. Dr. Sanchez is from Santiago, Spain. She has a desk in room 262 Alderman.

Dr. Mae Hee Chiang is from Seoul, Korea. Mae-Hee received a postdoctoral training grant from the Korean Science Foundation to work on Populus cytogenetics with Wesley

Hackett and OkYoung Stadelmann. Her contact lab is 218 Alderman and her office is 266 Alderman.

ACTING Chairperson of the Greenhouse Committee will be Mark Strefeler while Don White is in China, from September 24 to October 12. Contact Mark or Roger about any greenhouse emergencies.

GOLF & PICNIC, Sept 22, the golfers are all signed up but where are all you picnicens. There is still time for you to sign up to bring a dish to share (located across from the grad mailboxes). A reminder to stock your picnic basket/bag with your own dishes, silverware, drinks. Check the map for region 1 and if not available go to region 2 (keep searching til you find the Hort bunch). Lets all enjoy the last of the nice weather this weekend.

COMPUTER COMMITTEE....reports the printer for the MAC in the computer room is working properly now, along with a new ribbon. PC2, the old IBM, is currently under the weather and hopefully will be up again soon.

CHRYSANTHEMUM Evaluations....volunteers are needed next week to help with evaluations of hybrid seed lines in the mum fields. All you need is an opinion; complete instructions are provided. No previous experience is necessary! Evaluations will begin midweek. Forms with instructions and maps will be placed behind the faculty mailboxes. Please pick up a form! Return it to Neil Anderson, Peter Ascher or Mark Strefeler upon completion.

ENGLAND BOUND for 4 months (Jan 1-April 30) would like to sublet and/or find a housesitting situation. Furnished 1 Br. Apt. West Bank/Riverside Park area, quiet security bldg. off-street parking. FFI contact Debby Filler, 452 AlderH or 377-0251.

INVITATION TO VISIT VIENNA...a reminder of the standing invitation to faculty to visit Vienna and the Universitat fur Bodenkulture Wien (BOKU) whenever you are traveling in Europe. BOKU and our COA have had a letter of agreement for scientific exchange and collaboration since 1981. If arranged well in advance, BOKU would be prepared to cover the cost for the side trip from the original destination in Europe to Vienna and back to that original destination as well as a 1 or 2 day stay in a middle-class hotel in Vienna. The visiting faculty would be expected to give a short seminar on their work and to visit with the faculty of BOKU. If you plan to be in Europe and would like to visit Vienna, you may wish to look into this invitation. Contact Dr. Ed Stadelmann, 228 Alderman Hall, 624-3267.

FREE GOODS ALERT....buy 3 cases of Corning 15 ml centrifuge tubes, get one FREE case between 9/1 thru 10/15, at U of M stores...redemption must be postmarked by 10/31.

"There are few things that the ego delights in more than correcting other people's mistakes".
A. deMello S.J. 1989.

twig bender

Volume 9 - #36 -- September 27, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR September 30 - October 4

MON -State of the University address,
President Hasselmo, 4 p.m., 135 EBC.

Public Seminar, candidate for
Associate Dean for Curricular &
Student Affairs, COA, **Carole Bland**,
How to prepare undergraduate for the
21st century, 10:30 a.m. to 12:00 noon,
STSC Theatre, refreshments at 10:00
a.m.

TUE - Arb/HRC Research Policy Committee,
8:30 a.m., 398 AlderH.

WED - Departmental coffee hour cancelled.

Reception for Cindy Tong and new
graduate students, 3-4:30, Alderman
Hall foyer.

Department Seminar, Determination
for inflorescence development in pea,
by Dr. Susan Singer, Department of
Biology, Carleton College, Northfield,
MN, 4:05 p.m., 415 AlderH.

WELCOMENEWPEOPLE....**Meghan Sinclair**,
is the student secretary assistant in the main
office. She is from Green Bay, Wisconsin and
in her second year at the U. A degree in
education is her goal. She works every
afternoon. Stop in and say hello to Meghan
or greet her in the back hallway as she
distributes all that mail.

Daniel ("King Dan") Gulbrandson, is the new
student accounts assistant in the accounting
office. Dan also works for campus mail so he
can be considered doubly responsible when
things go awry in the department. Dan works
afternoons and his mailbox is aching for
packing slips, storehouse orders, payroll
envelopes, etc. (Heather Albrecht's mailbox
also!).

Julia Bohnen, working on a Masters with
Hancheck, comes to us with a B.S. in Hort at
UW/River Falls. While there, she competed
on a flower judging team that finished 3rd at
Nationals, and had internships at the Dow
Gardens in Midland, MI and a local garden
center. She spent a year in Australia with the
Communicating for Agriculture Exchange

Program. Six months at Jensen International
in Brisbane and 5 months at the Royal Botanic
Gardens, Sydney. At River Falls, she was a
member of the cross country and track teams.
Hiking is her thing.....with one marathon
march of 14 hours up and down about 5 peaks
in the White Mountains on the East Coast.
Ask her about her outings into the bush in
Australia. Her desk is in room 452.

Kerstin B. Concibido, was raised in Frankfurt,
Germany. She has wanted to become a
horticulturist since age 15 having spent alot of
time in her grandfather's nursery. She came
to the U.S. in 1983 and did an A.S. in
Biological Sciences at Northwestern Michigan
College in 1986. She met Vergel in Fargo, ND
where she received her BS in Botany. Her
study in floriculture with Mark Strefeler is on
a project about population genetics of
wildflowers and grasses in Minnesota. Her
goal is to eventually work for a rose breeder.
Greet her in 452 Alderman Hall.

Gerard Engelen, is originally from the
Netherlands, where the saying "Let's go Dutch"
is unknown!! He grew up in a greenhouse,
helping out with tomato picking and lettuce
cutting. He did an internship in drip
irrigation in the Negev desert in Israel and
worked for 2 years growing living room plants
in Holland. His BS is in agronomy at VA
Tech, May, 1991. His main interests in
horticulture: main course in plant physiology
and low input sustainable agriculture as a
side-dish! Hobbies: backpacking the
Appalachian Trail (his favorite) and did 450
miles on the trail summer of 91 from GA to
VA. Backpacking enthusiasts can visit with
Gerard in room 380 as he looks forward to
some extensive backpacking in the
Midwest....the Ice Age Trail maybe?

GARDEN WATCH....plants have been stolen
from the Alderman Project Garden (on Upper
Buford Circle) over the weekend. I am trying
to establish more perennials in the garden, but
the disappearance of plants makes this very
difficult. If you see anyone going around in
the garden, please notify Kathy Lloyd in the
main office or me....Maria Janssen (646-9673).

CORRECTION: Debby Filler is NOT going to England, as everyone mistook the article in last week's Twig. She is merely the intermediary.

REGION 8 MEETING....of the American Iris Society invites all undergraduate and graduate Horticulture students to its Fall meeting, Saturday, October 5, Sparta, Wisconsin. The speaker is Dr. Peter Ascher, Consequences of sex life of the iris. FFI check the bulletin board or call Don Koza, 624-3232.

BOYNTON HEALTH SERVICE....eye department continues to provide a safety eyewear program for faculty, staff and students. Reasonable prices include: plano with attached side shields - \$10, Single vision prescription lenses, standard frame and case start at \$28, bifocals, standard frame and case start at \$47. Eye exams for students paying the Boynton Health Service fee are covered by that fee. Faculty and staff can schedule an eye examination with payment out-of-pocket or their insurance (PHP, BCBS, etc). Eye exam appointment # is 624-2134.

twig bender

Volume 9 - #37 -- October 4, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR

October 7-11

MON - Hort Faculty Consultative Committee meeting, 8:30 a.m., 398 AlderH.

Public Seminar, candidate for Associate Dean for Curricular & Student Affairs, COA, William Anderson, How to prepare undergraduates for the 21st century, 10:30 a.m. to 12:00 noon, STSC Theatre, refreshments at 10:00.

Plant Breeding Seminar, 4:00-5:00 p.m., 306 Borlaug Hall.

Biological Forum, A viable College of Agriculture for the 1990's, Richard L. Jones, Dean, COA, 7-7:30 p.m. social, 7:30-9:00 p.m. program, 306 Borlaug Hall.

TUE - Farewell reception to Bob Holt, Dean of the Graduate School, 3-5 p.m., Regents Room (238 Morrill Hall).

PBS Seminar, What causes tomato fruit softening, Professor Cindy Tong, 4:00 p.m., 335 Borlaug Hall.

Teleconference to be broadcast, Ways to grow - alternative for small farmers, 1:30 p.m., 110 SPSC. A panel of ag experts to examine the systematic adoption of alternative agricultural enterprises for small-scale producers.

WED - Department Coffee Hour, 9:30 a.m., 394 AlderH. Treats brought for you by John Erwin and Wes Hackett.

Hort Faculty Meeting, 10:15 a.m., 394 AlderH.

Department Seminar, Cytokinins in developing maize kernels, Ken McNeil, Graduate Student, 4:05 p.m., 415 AlderH. Coffee, tea, cookies at 3:50 p.m.

THR - Prelim Exam, 8:00 a.m. - 4:00 p.m., 394 AlderH. Grad students pick up exam question from Evonne Kuyper in main office.

FRI - COA Curriculum Committee meeting, 1:30-3:00 p.m., 101 Coffey Hall.

SAT - U of M Homecoming

WELCOME NEW PEOPLE....Robert Quene, although his last name is French, he is a real Dutchman. He spend his first 10 years in Kenya, later studied plant breeding at the Agricultural University in Wageningen, two minors in entomology (plant resistance) and plant taxonomy. In 1989 he did research for 4 months on ornamental trees/shrubs in Kenya and in 1990 went to the Scottish Crop Research Institute to gain some practical experience in plant breeding in raspberries. It was there he met Hoover/Luby which brings him to Minnesota today doing research in floriculture with Mark Strefeler. His hobbies are cycling, swimming, photography, painting and drawing. For a guy born in the tropics, we all wish him the best in surviving our Minnesota winters....say hello to Robert in room 290 AlderH.

DEAN JONES to visit Department of Horticultural Science....on October 25th in the afternoon.

STOREROOM OFF LIMITS.....you must request supplies from Martha Piechowski in the main office. No more helping yourself. Thank you.

RECEPTION....for Cindy Tony and new grads was very successful thanks to Kathy Lloyd and others who helped set up and clean up. For those who donated treats, thanks. To John Carter for doing the introductions, thanks. Now that we've connected the names with the new faces, come to Department coffee hour on Wednesdays to get more acquainted.

DEADLINE FOR REMOVAL....Dr. Lauer will be activating the stainless steel portion of the lab (room 339). Please remove personal food stores from freezers and refrigerators by **October 9**. Thank you.

FACULTY LEAVE.....Delane Welsch will be on single quarter faculty leave from 9/23/91-12/11/91. During his absence, Bill Fenster will be Acting Director.

VOICE MAIL...has its ups and downs. Please check your voice mail personalized message as it may be erased. To record a new message, press *5 - 071 - 1 to record, 5 when you're finished.

DEPARTMENT VEHICLES.....keys should be picked up promptly for the time you have checked out the vehicle. After the 30 minute grace period, it will become available for others.

1991-92 COA FACULTY ASSEMBLY MEETINGS.....10:00 a.m. - noon, Thursday, December 5, Wednesday, March 18 and Wednesday, June 10. Mark your calendars.

OPEN ENROLLMENT....for health & dental insurance, October 16-November 15. Information Fair on employee benefits, October 17, SPSC.

Have a good week!

twig bender

Volume 9 - #38 -- October 11, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR October 14-18

MON - Public Seminar, candidate for Associate Dean for Curricular and Student Affairs, COA, Laurie Hayes, How to prepare undergraduates for the 21st century, 10:30-noon, STSC Theatre, refreshments at 10:00 a.m.

WED - Department coffee hour, 9:30 a.m., 394 AlderH. Treat by Betsy Zimmerman and Roger Meissner.

Department seminar, Incongruity in the F₂ progeny of interspecific hybrids of *vitis*, Debby Filler, Graduate Student, 4:05 p.m., 415 AlderH. Coffee, tea, cookies at 3:50 p.m.

THR - Hort 8066, Research proposal, Tom Viker, 4:05 p.m., 394 AlderH.

REMINDER.....The University's community campaign is winding down. If you haven't returned your pledge cards to Laura Kalisch yet, please remember to do so as soon as possible.

ROGUES' GALLERY....the new graduate students are encouraged to get their picture taken at the photo lab in North Hall (4-6773). Call and make an appointment today and turn the results into Evonne by October 30. Thank you.

MISSING/LOST....men's fisherman's knit sweater left at Cindy Tong's reception. See Kathy Lloyd in front office to claim. Zeiss ocular grid micrometer is missing from the 2nd floor labs...contact Pete Ascher (4-9762) or Kathy Kittleson (4-3232), room 270 AlderH.

RETIREMENT PARTY...for Len and Ed is November 1. Deadline for sign-up is October 29. See Kathy Lloyd today!

LOBBY DISPLAY CASE....is filled with artistic expressions from the offspring of the Moms, Dads, Grandparents, Auntie's, etc. in Horticultural Science. Kathy Lloyd coordinated the scene....great job. Next display case will feature baby pictures of the faculty, students, staff of Horticultural Science. Turn yours into Kathy Lloyd before October 31.

WELCOME NEW PEOPLE...Richard Kwame Peasah, is from Ghana, a Saturday born and is called Hwame Kwame which refers to a male Ghanaian born on Saturday. Richard did his undergraduate work at the University of Ghana and holds a B.S. in Agriculture with Crop Science as his major. He is pursuing a M.S. degree in Horticulture with Cindy Tong as his advisor. "As a native of the tropics, you can't imagine my dread at the coming freezing weather." Say hello to Richard in 352.

Beth Jarvis was accepted into the Master of Agriculture program with Bert Swanson as her advisor. She has a BA in Journalism from the U of M (CLA) in 1974, has worked for 13 yrs as a managerial accountant before coming back to school. She earned her bachelors of Horticulture in Spring of 1990. Her paper/research topic in the M of Ag program is on soil amendments in container media. She's using several yard waste composts, a municipal compost and rubber tire chips as 50% or 100% replacement for the peat moss in the standard TRE mix. Hobbies are flower and vegie gardening, photography, and reading. In her volunteer work, she serves as chair of the Crystal Environmental Quality Commission, writes articles for the MN Horticulturist on composting and small space vegetable gardening. Her composting articles was included in the MN Hort Soc book The Good Gardener. In her spare time, she is a TA for Pete Ascher, Hort 1010, Extension, works for Dial U, and in the TRE nursery. She's in room 380 if you can catch her.

COOLER CLEANING....the contents of headhouse cooler #76 will be temporarily moved on Wed. Oct. 23 to allow for cleaning. Any unlabeled or unclaimed material will be thrown out. Fruit Project.

EVAPORATIVE COOLING SYSTEMS...in order to prevent damage to greenhouse evaporative cooling systems, they must be winterized by Friday, October 18. Any request to leave the cooling system in operation beyond October 18, must be in writing and signed by the Department Head. Also, any department requesting the system be left in operation past the above mentioned date will be responsible for any damage to the building and equipment due to frozen water lines. Questions, contact Gerald W. Brenden at 624-2288.

ENROLLMENT FIGURES.....from the COA for Summer Session II indicate Agriculture was up 58%. Fall quarter number to be available soon.

CALLAWAY GARDENS...looking for two horticulture intern positions in their vegetable garden area - site of Victory Garden, South, from January 13 to August, 1992. Interns will be involved in preparation for TV taping sessions as well as meeting the public, attending some classes and maintaining the gardens. If you know a student (or are a student) who is interested, contact Deb Brown (624-7491) for more information.

GARDEN CLUB OF AMERICA....is offering six scholarships and fellowships annually in various disciplines....landscape architects, doctoral candidates in tropical botany, college graduates to study in London, graduate students to conduct research of rare plants in horticulture, and students who want to pursue summer courses in environmental studies. See lobby bulletin board, **Scholarship Section** for details.

RECIPE...fresh apple coffee cake (delicious when served warm: 1 cup all-purpose flour, 1 1/2 tsp. baking powder, 1/2 tsp. salt, 2 Tbsp. sugar, 1/4 cup vegetable shortening, 1 unbeatn egg, 1/4 cup milk, 2 1/2 cups pared, cored thin apple slices, 3/4 cup brown sugar, 3 Tbsp. butter or margarine, 1/2 tsp. cinnamon, 1/4 tsp. nutmeg...sift first 4 ingredients into mixing bowl. Add shortening, egg, and milk and beat thoroughly. Spread dough in 8x8x2-inch greased pan. Arrange apples in loosely overlapping rows on top of dough with pointed edges down. Combine brown sugar, butter or margarine, cinnamon, and nutmeg and sprinkle over apples. Bake in 400°F oven 40 to 45 minutes. Serve warm with vanilla ice cream.

FALL COLOR PEAK....the fall coloring is the result of chemical processes in the leaves as the seasons change from summer to winter, many leaves turning before the first frost. Because of decreasing amount of fall daylight and the lowering of average daily temperatures, leaves stop their food making process. As they do, the chlorophyll breaks down, the green color disappears, and the yellow pigment that was covered becomes visible, giving the leaves part of their fall splendor. At the same time, other chemical changes occur and cause the formation of additional pigments that vary from yellow to red to blue. Weather conditions that favor brilliant red autumn colors are warm sunny days followed by cool nights with temperatures below 45°F. Sugar is made in the leaves during the daytime, but cool nights prevent the movement of sugar from the leaves, trapping it to form the red pigment, anthocyanin. When there is warm, cloudy, rainy fall weather, leaves may have less red coloration, as the sugar that is made in - reduced sunlight moves out of the leaves on warm nights. - Jim Gilbert -

twig bender

Volume 9 - #39 -- October 18, 1991
Editor: Martha Piechowski

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

WEEKLY CALENDAR October 21-25

MON - Plant Breeding Seminar, Some ideas on achieving progress in plant breeding, Donald Rasmusson, 4:00 pm, 306 Borlaug Hall.

TUE - Plant Biological Sciences Colloquium, The effect of seeds on gibberellin biosynthesis in pea pericarp, Jocelyn Ozga, 4:00 pm, 335 Borlaug Hall.

Hort Club meeting with Gary Gardner, 5:30 pm, 415 AlderH.

WED - Departmental coffee hour, 9:30 am, 394 AlderH. Treats by Maria Janssen and Conchi Sanchez.

Undergraduate Affairs Committee, 11:30 am, 398 AlderH. Bring a bag lunch.

Open Forum, President Hasselmo, Minnesota Commons, SPSC, noon to 1:00 pm.

Departmental seminar, Breeding for pest resistance in sweet corn, David Davis, 4:05 pm, 415 AlderH. Coffee, tea, cookies at 3:50 pm.

THR - ARB/HRC Research Policy Committee, 8:30 am, 398 AlderH.

Hort 8066, discussion of October 3 prelim exam, Smith, Hackett & Erwin, 4:05 pm, 394 AlderH.

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

Dean Jones to visit Department of Horticultural Science, 1:00 pm, reception 4:00 pm, 394 AlderH.

Attention Garden plotters! Please remove from your plots all stakes (metal or wood), twine, tomato cages or other items which may damage farm shop implements as our plot area is plowed. This must be done this weekend as the area will be released on Monday of next week. If you are aware of a plot neighbor who will be unable to clean their plot this weekend, please help them out. Thanks!

We don't have many people signed up for the **Retirement Party** so let's all get on the band wagon and give Ed and Len a really big sendoff! Get your reservation in soon, please!!

The **College of Agriculture newsletter** is planning a calendar of events scheduled for release in mid December. Please send your listing of any meetings, seminars, etc. coming up this winter and early spring to Victoria Mikelonis, 202 Hacker Hall by October 23.

Ag Career Day '91 is scheduled for Wednesday, October 30th from 10:00 am to 3:00 pm in the Northstar Ballroom, St. Paul Student Center. Please plan to attend and encourage your students to do likewise.

Tom Warnke has made arrangements to have the entire **Crop Science Building fumigated** during the four day Thanksgiving weekend. If your project has samples that you would like to have treated with Vapona, an insecticide that also has some fumigation action, bring them to the Crops Service Building on November 25th and 26th. There will be no admittance to the Crop Service Building once the fumigation has started. Call Tom at 625-3153 if you have questions.

Debby Filler will be having surgery in University Hospital on Friday, October 18. She will be in the hospital for 5-7 days. Please call before visiting.

1st luncheon meeting is planned for **Women in Agriculture**, a support group for undergraduate women in the College of Agriculture on Thursday, October 24th 11:45-12:45, Room 120, Coffey Hall. RSVP 624-2710

Would whomever took the large packing **tape dispenser** from the supply closet in 305 please return it.

twig bender

Volume 9 - #40 -- October 25, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR October 28 - November 1

WED - Departmental coffee hour, 9:30 a.m., 394 AlderH. Treats by Jerry Pierson and Fernande Rodgers.

Graduate students get your pictures taken and submitted.

DEADLINE DAY - 3:00 p.m. for Ed and Len's Retirement Party. If you have slides/pictures of either, get them to Kath Lloyd.

Department Seminar, The Minnesota potato breeding program, Florian Lauer, 4:05 p.m., 415 AlderH. Coffee, tea, cookies at 3:50 p.m.

Ag Career Day '91', 10-3, Northstar Ballroom, SPSC.

THR - Hort 8066 - Research Proposal: Breeding for partial resistance to common rust in sweet corn, Greg Gingera, grad student, 4:05 p.m., 394 AlderH.

FRI - Undergraduate Affairs Committee, 12:30 p.m., 394 AlderH.

SUN - Channel 6 MCN, Minnesota Gardening experts (from the UMExtSer and from Plantscape, Inc.) look at residential and commercial interior plants and plantscapes. Tune in at 9 p.m.

NEVER BET AGAINST A SURE THING: Greg Gingera submits "On behalf of myself and the Dominion of Canada, I would like to congratulate the Minnesota Twins for their convincing victory over the Toronto Blue Jays. Rogers Meissner is also to be congratulated for choosing the correct team (this year)!"

"Overemphasis on the competitive system and premature specialization on the ground of immediate usefulness kill the spirit upon which all cultural life depends, specialize knowledge included"....Albert Einstein/JVC.

AABGA (American Association of Botanical Gardens and Arboreta Director of Internships and summer jobs at public gardens is located at **Evonne Kuyper's desk** in the main office. Students are encouraged to stop by and explore the possibilities of internships/summer jobs.

WALT DISNEY'S EPCOT CENTER Land Parvillion recruiter on campus in early November is looking for interns for spring term, 1992. Students should be junior or senior with an interest in food crops; have a B average or better. The internship lasts 6 months, includes airfare each way plus \$300/week, some classes and field trips. See Deb Brown, 158 AlderH for details.

ATTENTION GRAD STUDENTS.....Next prelim exam is November 7 (not Nov 5) Papers will be distributed in your mailbox October 30. A. Smith, GSC.

WHERE, OH WHERE.....has the paper cutter gone? The one that usually in 435 AlderH. Please return it, no questions asked, unless you truly have a legitimate claim to it. No name submitted this article. Thank you.

HOLIDAY COOKIE EXCHANGE.....is scheduled for December 16, noon. Details from Kath Lloyd.

READING MATERIALS WANTED....for our friend in Costa Rica, Edie Lurvey. Any used paperbacks, etc., give to Betsy Lamb who will forward them on to Edie.

twig bender

Volume 9 - #41 -- November 8, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR November 11-15

MON- Undergraduate Affairs Committee,
12:00 noon, 398 AlderH.

WED- Departmental coffee hour, 9:30 a.m.,
394 AlderH. Treats by A. Costa and
A. Flores Nimedez.

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

Department Seminar, Hybrid zones as
focal points of insect biodiversity, Dr.
Patrice Morrow, Department of
Ecology, Evolution and Behavior, 4:05
p.m. 415 AlderH. Tea, coffee, cookies
at 3:50.

THR- Hort 8066, Research Proposal,
Glucanases in Plant Development, Paul
Bucciaglia, PBS grad student, 4:05
p.m., 394 AlderH.

FRI- COA Curriculum Committee, 1:30-3:00
p.m., 101 Coffey Hall.

HANCHEK's announce a baby boy, Patrick
Skylar on October 30....8 lb 4 oz...21".
Congratulations from all.

LOST....(1) ea tissue culture light rack
fabricated from 2x2 fir & hardware screen,
fitted with (4) 4' fluorescent light fixtures.
Was last seen on 4th floor outside rm 435. If
you picked this assembly by mistake, I would
greatly appreciate it's return. G.M.Gardner,
D. Olson, P. Johnson

GREENHOUSE NEWS....winter rules for dept.
vehicles....once again it's time to plug in the
vehicles each night so they will start in the
morning. Yes, we here in Minnesota, believe
it or not, have our engines outfitted with bolt
heaters, which are plugged into electrical
outlets, which assures us of a quick start in the
cold frosty mornings. Park the department
vehicles in one of the five spots in front of the
greenhouse, fill in the mileage sheet and
PLUG the vehicle in. Also make sure the
vehicle has at least a 1/2 tank of fuel. Report
any problems to Roger Meissner. Privately
owned vehicles parked in U of M designated
spots will be towed.

HORT CLUB NEWS....the club meeting of
November 5th is rescheduled to November 12,
5:30 p.m., room 394. Guest speaker is Mary
Buschette from the MAST program.

MISSING....Hort Club needs your help in
locating their machine that makes Christmas
wreaths, last seen in the greenhouse. If anyone
knows its whereabouts, please notify Kathy
Kittleson, room 270 AlderH, 624-3232 ASAP...
Thanks....KK.

NEW ADDRESS AND FAX....for International
Agricultural Programs will be 43 Classroom
Office Building (COB), 612-625-
3111..effective October 24, 1991.

FOR SALE....Beeswax candles and honey sale
by the Entomology Graduate Student
Association, Hodson Hall, November 20-22,
10:00-3:00. Pure MN Basswood-Clover honey,
1/2 gal. \$6.50....honey bears \$1.00. 12" hand-
made beeswax candles, \$3/pair. Order now
624-3241.

STORAGE SPACE...available at the judging arena on the State Fairgrounds for the winter for plot equipment and vehicles. Please contact Tom Warnke or Dick Zibell, 625-3153.

Happy Snow Daze....Have a good weekend!

FACULTY REMINDERS.....please check the circulation mailbox in the back hallway to keep informed. Also please get in the habit of turning in two copies of your published reprint articles. Thank you.

CUSTOMERS NEWS...from Facilities Management reminds us of reductions which include: wastebaskets will be emptied two instead of five times a week; response to building temperature complaints will be limited; and window washing has been eliminated.

OPEN FORUM.... Board of Regents...December 3, Earle Brown Center, room 42 beginning at 1:30 p.m. Open to individuals who wish to address the Regents regarding the 1992-93 Budget Proposal for the University of Minnesota.

ADOPTION.....3 herbarium cabinets and some solvents in 435 AlderH that are available for adoption. The solvents that are available include 2,2-dimethoxypropane, ether, formalin, methanesulfonic acid ethyl ether, petroleum ether, propionic acid, and xylenes. If you want any of these items, please contact Cindy Tong.

MUCIA (Midwest Universities Consortium for International Activities) and the University of Minnesota-Office of International Education are pleased to announce the 1992 International Development and Education Internships. These three month, paid internships are designed to encourage interest in international careers and most are based in Washington, D.C. Internships are only for citizens of the US, deadline November 22. Contact Becca Sanders at 626-7144.

twig bender

Volume 9 - #42 -- November 15, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR November 17-22

SUN- Minnesota Gardening, Channel 6 MCN, 9 p.m., "Holiday Plants". Poinsettia, Thanksgiving and Christmas cactus, Jerusalem cherry and other holiday plants will be highlighted.

MON- Ad Hoc Financial Planning Committee meeting, 9:00 a.m., 398 AlderH.

Plant Breeding Seminar, Herbicide tolerant crops via biotechnology, Mbassa Ndioro, 4:00 p.m., 306 Borlaug Hall.

Tue- Public Seminar, Candidate for Superintendent of West Central Experiment Station, **Dennis G. Johnson**, Perspectives on the Superintendent's Responsibilities at the West Central Branch of MAES, 10-11 a.m., refreshments at 9:45 a.m., 110 Green Hall.

HRC Growth Facilities Committee meeting, 1:00 p.m., 398 AlderH.

Plant Biology Seminar, Dr. Jonathan Wendel of Iowa State University, Evolution of the wild and cultivated member of the genus Gossypium (cotton), 4:00 p.m., 335 Borlaug Hall.

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

WED- Departmental coffee hour, 9:30 a.m., 394 AlderH. Treats by Martha Piechowski and Karl Ruser.

Undergraduate Affairs Committee, 12 noon, 398 AlderH.

Faculty Consultative Committee meeting, 2:30 p.m., 398 AlderH.

Hort Department Seminar, Orchard insect monitoring: first-stage IPM as a means to reduce spray usage, Kevin Iungerman, graduate student, 4:05 p.m., 415 AlderH. Coffee, tea, cookies at 3:50.

Agronomy Seminar, Evaluation of potential pharmaceutical crops for Minnesota, JoAnn Carlson, graduate student, 4:00 p.m., 306 Borlaug Hall.

THR- Public Seminar, Candidate for Superintendent of West Central Experiment Station, **Gary Lemme**, Perspectives on the Superintendent's Responsibilities at the West Central Branch of MAES, 10-11 a.m., refreshments at 9:45 a.m., 110 Green Hall.

Women in Agriculture, 11:45-12:45, 120 Coffey Hall. You are invited to participate in a support group designed for undergraduate women in the COA. Luncheon meeting featuring special guests to address important issues for women in agriculture. Bring lunch, friends, concerns, ideas.

Hort 8066, discussion of the November 5th prelim exam, 4:05 p.m., 394 AlderH.

Hort Club has Hibiscus to sell They are in the front part of the old poly house. The cost is \$10. They are in 10 gal pots. Please tag the plant you'd like and write your name on the "Plants Taken List". Pay either Kathy Kittleson (Hort Club President) or Kathy Lloyd (305 Alderman).

If anyone has my book Plant Watching by Wilkins, please let me know. Bud Markhart (happy 40th).

RETIREMENT PARTY....thank you notes from Len Hertz reads "Both Lorraine and I want to thank everyone for the wonderful retirement party at the Gasthaus Bavarian Hunter. The many expressions of best wishes were appreciated. Also, the opportunity to share the evening with so many good friends and co-workers was something we will always remember. To those involved in the many details of the party, we thank you for your time and hard work. To those who toasted me, thank you. (We are still laughing at my organic award). It was tremendous and this was indeed a very special evening for Lorraine and myself. Thank all of you again".

"A special thank you for the wonderful retirement party which I fully enjoyed! I really like the Lucite engraving and also appreciate the other gifts, especially the onion-related ones, of course; I never knew before that an onion clock is available! To be sure that I always have the right time, I will take it with me to Scotland and Vienna. Special thanks to the administrative and secretarial staff who so well prepared the party and certainly spent hours to write the Horticulture News and prepare the many other gifts I was privileged to receive. Once again a wholeheartedly **Thank You** for the great party which I will always remember". Ed. Stadelmann, Onionologist Emeritus.

This winter, become a volunteer instructor at the Minnesota Landscape Arboretum near Chanhassen. Applications are currently being taken for volunteers interested in leading workshops and activities for elementary school children visiting the Arboretum's Learning Center and greenhouse during the winter. No previous experience is required, FFI call Shirley Mah Kooyman at 612-443-2460.

The Minnesota Landscape Arboretum invited its members and general public to visit during December for two weekends of holiday events, including a benefit dinner; the popular Festival of Trees display; weekday and evening classes on using fresh and dried plants for holiday

gifts and decor; and expanded holiday shopping. The Snyder Education Building will be decorated with natural materials by area decorators and designers, so visitors may see ideas for their own homes. Holiday shopping will include unique gifts and decorative items from the Arboretum Auxiliary and Gift Shop, and mini-boutiques operated by local specialty shops. The Gift Shop is open all December except for December 24 and 15. Friday, December 6, 6:30-10:30 p.m. "Memories of a Holiday" benefit dinner, \$50 per person, call 612-443-2460, ext. 227. Saturday, December 7, 10 a.m.-3 p.m) and Sunday, Dec. 8 (11 a.m.-4 p.m: Holiday open house for all the family with sleigh rides and petting zoo animals, hot cider and holiday sweets, children's crafts and entertainment. Admission for members/non-members, \$3/\$5 adults; \$2/\$3 children. Gate fee waived this weekend only. Saturday/Sunday, Dec. 14 & 14, 11 a.m.-4:30 p.m: Festival of Trees, with open house for family and friends. This popular event is back with fresh evergreen trees decorated with ornaments made of dried flowers and other plant materials by garden, herb, fiber and dyeing groups. Free hot apple cider and sweets, tours of the trees, music, entertainment, children's crafts. Admission is free to members; gate fee for non-members, \$3 adults, \$1 children or free with parent.

CLASSES: Wednesday, Nov. 20, 10:00 - noon, Elbow and Friendship Basket...make a rattan basket in the manner of Choctaw Indians. Materials are needed, ask when making reservations. \$15 for members; \$20 non-members.

Tuesday Dec. 3, 10:00 & 11:00 a.m., & 7:00 p.m.: Balsam Wreath Workshops...bring a pair of pruning shears and make your own wreath with fresh balsam boughs, cones and ribbon. \$12 members/\$15 non-members.

Thursday, Dec. 12, 10 a.m., 1 p.m: Creating a Boxwood Tree for the Holidays...make a petite holiday tree with sprigs of boxwood, decorated with bows and ornaments. Bring pruning shears. \$12 members/\$15 non-members.

Also:

Dec. 9 - Gifts from the Kitchen.

Dec. 10 - Decorating with Dried Material

Dec 11 - Potpourri of Gifts.

Fees include materials...to register call 612-443-2460, ext 958.

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Volume 9 - #43 -- November 22, 1991
Editor: Evonne Kuyper

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

TWO WEEK CALENDAR November 25-29

MON- Public Seminar, Candidate for Superintendent of West Central Experiment Station, **Harry R. Leffler**, Perspectives on the Superintendent's Responsibilities at the West Central Branch of MAES, 10-11 a.m., refreshments at 9:45 a.m., STSC North Star Ballroom

Plant Breeding Seminar, Breeding for low-input cultivars, Perry Miller, 306 Borlaug Hall, 4:00-5:00 p.m.

TUE- Undergraduate Affairs Committee meeting, 12 noon, 394 AlderH.

All Hort faculty, staff, student meeting, 1:00 p.m., 415 AlderH.

WED- Departmental coffee hour, 9:30 a.m., 394 AlderH. Treats by Gerard Engelen and Bud Markhart.

THR- Major Holiday - University closed

FRI- Floating Holiday - University closed

December 1-6

Dec 1 Minnesota Gardening, Channel 6 MCN, 9 p.m.

Dec 2 Plant Breeding Seminar, Comparison of statistical methods for selecting the best, Lauren Johnson, 4-5 p.m., 306 Borlaug Hall.

Biological Forum, The Genetic Basis of Morphological Evolution of Corn, Dr. John Doebley, Dept. of Plant Biology, 7-7:30 p.m. social, 7:30-9:00 program, 306 Borlaug Hall.

Dec 3 Last day of fall quarter classes.

Dec 4 Annual faculty meeting for review of probationary faculty members, 8:30 a.m., 394 AlderH.

Faculty Consultative Committee meeting, 2:30 p.m., 398 AlderH.

Dec 5 Finals begin and end December 11.

Graduate Studies Committee meeting, 1:30 p.m., 398 AlderH.

College Faculty Assembly Meeting, 9:30-12 noon, 335 Borlaug Hall, Continental Breakfast at 9:00 a.m.

Dec 6 Public Seminar, Candidate for Superintendent of West Central Experiment Station, **Craig C. Sheaffer**, Perspectives on the Superintendent's Responsibilities at the West Central Branch of MAES, 10-11 a.m., refreshments at 9:45 a.m., 110 GrnH.

GRAD STUDENTS.....mark your calendars now for upcoming prelim exam dates. They are: January 23, February 27 and April 9.

To whomever is growing fungus in a white bucket in temp.-controlled room 372 - **Please Take It Out ASAP!!!** Cindy Tong.

HOLIDAY PARTY WARNING...department holiday potluck will be Dec.13 in the departmental lobby. 2 p.m. - ? Family and friends encouraged to attend. More details later. Forward written suggestions to Cindy Tong or Fernande Rodgers by Dec. 6.

SPBOC...St. Paul Board of Colleges is the student governing body for the St. Paul Campus. They are a group of students comprised of representatives from each of the 5 colleges on the St. Paul Campus. SPBOC's mission is to represent students from St. Paul and provide services, resources, and programs for the Campus community. One of the most successful endeavors for the SPBOC over the years has been the Old Test File (OTF). Use of the OTF can assist students in preparing for exams by allowing them to predetermine the testing method implemented by an instructor. They encourage students to utilize the OTF as a study aid. It is located in 190 Coffey Hall, Office for Student Affairs. They are soliciting professor for additions to their collection of exams. Please submit/mail exams to Anne Zylkowski, 190 Coffey Hall or call 625-4265.

See Martha Piechowski for a recipe of the delicious coffee cake she served at last weeks coffee hour.

REMINDER....keep your car doors locked....radio/cassette player stolen from an unlocked vehicle in contract lot below Alderman Hall.

Bedding Plants Foundation, Inc. (BPMI) invites research proposals for funding, deadline May 1, 1992. The Foundation has funded 69 research projects at 22 universities throughout the US and Canada totaling \$245,000. This year 10 proposals totaling \$45,840 in research were funded by the foundation, with grants ranging from \$3,000 to \$7,340. All grant recipients are required to submit progress reports each January until a final research report is received. Final reports are published and sent to all BPMI contributors and those who request information. A survey of growers indicated the following research priorities:

- *Insect Control: biotechnology, biocontrol, natural and chemical controls; management practices.
- *Production Techniques that Encourage Environmental Stewardship.
- *Developing Disease & Insect Resistant Varieties.
- *Disease Control: biotechnology, biocontrol,

natural controls and management practices.

*Improved Garden Performance.

*Water: run-off prevention techniques, containment & disease control, water quality and nutrition.

*New (unique and unusual) Varieties.

*Increasing Shelf Life.

*Improved Shipping Ability of Crops.

*Shortening Seed to Flower Growing Time.

*Media with Nutrition to Finish Crops.

*Temperature Management (day/night, DIF, etc.)

See Evonne Kuyper in main office for submission form.

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Volume 9 - #44 -- December 6, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR December 9-13

WED- Review of probationary faculty members, 8:30 a.m., 394 AlderH.

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

Departmental coffee hour, 9:30 a.m., 398 AlderH. Treats by ??? More volunteers welcome.

Resource Planning Committee, 1:00 p.m., 394 AlderH.

FRI- Fall Quarter Grades are due by noon.

Holiday Potluck, 2:00 p.m., 3rd floor lobby of Alderman Hall. Sign-up in back hallway. Donations of \$3.00 accepted by Kath Lloyd/Fernande Rodger. Roast beef, chicken, non-alcoholic beverages provided.

COOKIE EXCHANGE....December 16. Sign up in the main office and please list the type of cookie you wish to bring. More participants needed.

DISPLAY CASE....in January will feature department baby photos. Please submit a baby photo plus a current photo of yourself to Kath Lloyd by December 16. There will be a contest to match baby photo with the current adult photo. Most correct guesses will receive a prize. Come on, join in with "You Must Have Been A Beautiful Baby" contest.

CHILI CHALLENGE.....from Greg Gingera, last years winner. "Approximately one year ago, I, the man from the NORTH, was victorious in the second annual Horticulture chili-cook-off contest. Although my win was clearly a sign of superior culinary ability, some disgruntled wanna-be-chefs have gone so far as to question the decision of the wise (and impartial) judges. I hereby offer an open challenge to all chili-wizards in Horticulture to a chili showdown. This is your chance to resolve the question: Can ANYONE defeat me in a chili-cooking contest??? I think not!!"

MN GARDENING CALENDAR.....now for sale by Undergraduate Hort Club in 305 AlderH for \$5.00. A portion of the sales will be donated to the department. The photography is beautiful with many helpful gardening tips making this a great holiday gift idea.

ARBORETUM NEWS....2 holiday open house weekends, December 7 & 8; 14 & 15, with free cider and cookies, children's activities, storytelling, music, sweepstakes, classes on making holiday decor and gifts; mall-free shopping for unique gifts. SWEEPSTAKES grand prize is a 17-day tour of the Floriade - a spectacular, year-long flower and horticultural show presented in Holland only once every 10 years. The trip, hosted by Arboretum Director, Peter J. Olin, includes visits to Munich and its Botanic Garden; Salzburg and Innsbruck, Austria; the Italian Lake district, the Alsace region of France and several other European sites in addition to Amsterdam. Chances are being sold for \$5 each, or \$25 for 6 chances, from now through Sunday, December 15, at 4:30 p.m., when the drawing will be held. Proceeds from the sweepstakes will benefit the Arboretum. Call 612-443-2460.

ADVANCE ANNOUNCEMENT....11th Annual Symposium...April 1-3, 1992, Current Topics in Plant Biochemistry, Molecular Biology and Physiology. Contact Doug Randall, 117 Schweitzer Hall, University of Missouri-Columbia, Columbia, MO 65211.

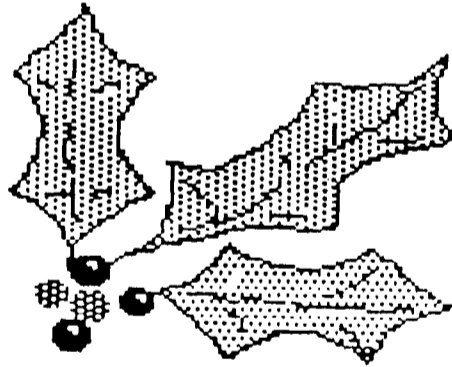
ASHS...TED SIMS, JR. MEMORIAL SCHOLARSHIP...\$1,000 to undergraduate student majoring in horticulture at a four-year institution of higher education who meets the following criteria:

- 1) Junior or senior class standing beginning Fall 1992.
- 2) Registered as a full-time student (minimum 12 credit hours)
- 3) Excellence in academic performance in the major.
- 4) Participation in extracurricular activities relating to horticulture.
- 5) Commitment to the horticulture profession.

You must be nominated by the head of your department; one applicant per dept. Deadline: February 1, 1992. Advising faculty should turn in names of their outstanding students to Gary M. Gardner by January 1, 1992.

CORRECTION to 1991-92 Student, Staff Directory: page 41 for **Health Sciences, Office of Vice President for.....ADD: Assoc V Pres - Cherie Perlmutter, Ofc number....432 MorH, Ofc phone number...624-1800.**

HOLIDAY SEASON SCHEDULE...for St. Paul Campus Food Services. The Cherrywood Room will close after luncheon service on 12/12/91 and will reopen on 1/6/92. The Earle Brown Pumpkin Cafe will close after service on 12/13/91 and reopen on 1/3/92. The Terrace Cafe Quarter Break hours, effective 12/11/91, are 7 am - 2:30 pm. The Terrace Cafe, located in the SPSC building can provide any holiday goodies that you may wish to order for a special party. They will be servicing all coffee hours and catering from 12/16 to 1/3. Please contact Patty Daubenspeck at 5-1990 to place an order.



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Volume 9 - #45 -- December 13, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR December 16-20

MON- Cookie Exchange, 12 noon, 398 AlderH.

WED- Building and Safety Committee, 9:00 a.m., 398 AlderH.

Departmental coffee hour, 9:30 a.m., 394 AlderH. Volunteers needed to bring holiday goodies.

Faculty Consultative Committee, 2:30 p.m., 398 AlderH.

THR- Graduate Studies Committee, 10:00 - 11:30 a.m., 394 AlderH. NOTE CHANGE IN TIME.

SUN- Minnesota Gardening, Channel 6 MCN, 9:00 p.m.

CONGRATULATIONS.....to Laurie Hayes on her new position as Associate Dean for Curricular and Student Affairs in the College of Agriculture.

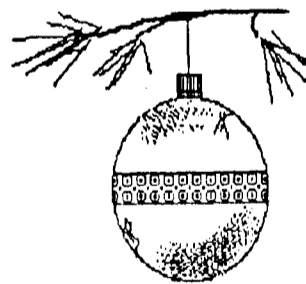
NOMINATIONS.....are being accepted for the Outstanding Civil Service Performance Award. For information on submitting a nomination, contact Fernande Rodgers in 305A (main office).

GRADUATE SCHOOL TUITION SCHOLARSHIP....spring quarter deadline for application is January 24, 1992.

CLEAN UP.....we plan to have our annual clean-up including survey of radioactivity in the hardiness lab (room 223, 223B), cold rooms in 201, etc) next week (16-20). If anyone has anything in the hardiness lab, please claim them by Monday, Dec. 16th. We will assume anything without proper labeling and person's name on, is no longer needed. This clean-up also includes the -80°C freezer and slide top freezer in room 201. Those of you who have stuff stored in the freezers, please remove them by Monday the 16th so that we can defrost them and clean them. After cleaning, the -80°C freezer will be designated for radioactive material storage use in the future. Anyone is welcome to use the freezers if space is available. Paul Li.

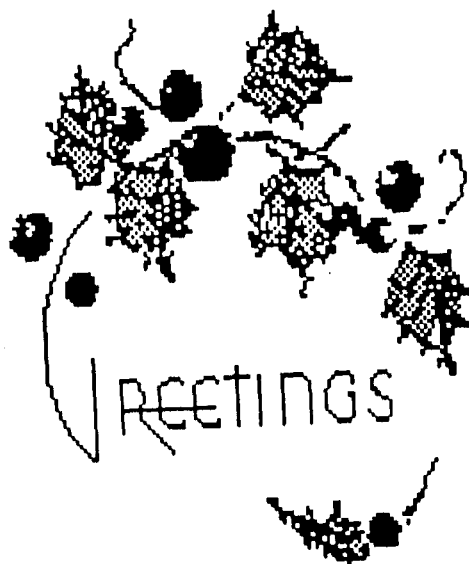
COMMUNITY CAMPAIGN....results are in and I'd like to thank everyone in the Department of Horticultural Science who contributed to the campaign. We can all be proud of our participation rate. The total University contribution amounted to \$723,108, for a participation rate of 27.8%, we raised \$7,142 for a 32.2% rate of participation. Thanks again....Laura Kalisch.

MNLA CONVENTION AND TRADE SHOW.....January 5, 6, 7, 1992, Hyatt Regency Hotel, 1300 Nicollet Avenue, Minneapolis



ENVIRONMENTAL SCIENCE & Engineering Fellowship (Summer, 1992). The purpose of this fellowship program is to assist the Office of Research and Development (ORD) of the U.S. Environmental Protection Agency in identifying and assessing the significance of long-range environmental problems and opportunities. There are a considerable number of broad areas of research interest within EPA. Fellows will spend 10 weeks (June 1 through August 7) working as special research consultants with ORD. Fellows will undertake a detailed, future-oriented research project of mutual interest to the Fellow and EPA and will prepare a report at the completion of the summer's work. The stipend is \$900 per week plus nominal relocation and travel expenses. Application deadline is February 15, 1992, contact American Association for the Advancement of Science, 1333 H Street NW, Washington, DC 20005; 202-326-6600.

Good Luck Shopping



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Volume 9 - #46 -- December 20, 1991
Editor: Evonne Kuyper

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

WEEKLY CALENDAR December 23-27

MON- Floating Holiday - University Closed
TUE- Floating Holiday - University Closed
WED- HOLIDAY - University Closed
THR- University Open
FRI- University Open

OFFICE STAFF ON VACATION:

Laura Kalisch - December 26,27,30,31
Evonne Kuyper-December 26,27,30,31,Jan 1,2
Fernande Rodgers-December 26,27,30,31

DEADLINE for Senate Consultative
Committee Nominations is Wednesday, January
15.

DEADLINE for Graduate School Fellowships
is 12:00 noon, Friday, February 7, 1992.
Eligibility: US citizens and permanent
residents who are members of ethnic minority
groups or students who are disadvantaged are
eligible for this program. Students who plan to
enter the Graduate School for the first time in
the 1992-93 academic year may be nominated.
Evonne Kuyper in the main office has
applications.

DON'T FORGET the farewell party for
Betsy Lamb tonight (12/20) at 2932 39th Ave.
So. (just off Lake Street near Super America)
in the home of Michele Schermann and Bill
Gilbert (721-7541 - if you get lost). Start time
is 6:30, bring a pot luck dish, friends, shaggy
dog stories, incriminating photographs, or
funky earrings. We wish Betsy GOOD LUCK
in her new endeavor as Assistant Professor at
the University of Arkansas, Fayetteville.

OFFICE STAFF THANKS YOU.....if you
brought in holiday treats. Fudge, cookies,
candies were enjoyed by all and our hips
appreciate it very much, thank you.

