

TWIG BENDER

Volume 13, #1, 1-6-95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS FOR JANUARY 9-13, 1995

January 1995						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

MON- PB Seminar, Characterization and Expression of a Cinnamyl Alcohol Dehydrogenase Homologue in *Arabidopsis thaliana*, Dr. David Somers, 3:30 p.m., 306 BorH.

Cover Crop Task Force Mtg, 1:00 p.m., 408 Hayes Hall.

WED- Graduate Studies Committee, 11:00 a.m., 398 AlderH.

Faculty Meeting, 1:00 p.m., 394 AlderH.

Hort Seminar, Development of seed potato production system, Russia & Morocco, Dr. Florian Lauer, 3:30 p.m., 415 AlderH.

THR- Hort 8066, Recurrent selection of recombination for enhanced nitrogen fixation in common bean (*Phaseolus vulgaris*), Jorge Elizondo-Barron, Ph.D. student with Dr. David Davis, 4:05 p.m., 394 AlderH.

FRI- MAROON & GOLD CASUAL FRIDAY (always)

Minnesota Apple Growers 62nd Convention and Seminar Series, LaCrosse Center, LaCrosse, WI, January 10, 11, & 12.

CONGRATULATIONS.....to Amy Moberg who successfully completed her MS degree on December 8. Good Luck, Amy.

CLOSE OUT 1994 RECORDS.....employees need to make sure all 1994 vacation/sick leave records have been turned into Laura Kalisch by Wednesday, January 11.

MISSING....would the individual who removed the large developing trays from the darkroom return them immediately and do not remove them again. Please be more considerate of others. (*Editor would like a name attached to this handwritten note, please!*)

OFFICE SPACE AVAILABLE.....for non-profits - single office or up to 5400 sq ft as of June 1, 1995. Possible clerical support available, newer building, good location in Falcon Heights. Contact Dorothy Johnson or Dan Holmquist, Minnesota State Horticultural Society, 612-643-3601.

FREE ADMISSION.....to the Minnesota Landscape Arboretum, for students in the **Colleges of Agriculture & Architecture & Landscape Architecture**. Visit them as often as you like through September 1995 and the \$4.00 entrance fee will be waived. The Arboretum is a superb educational and inspirational resource with 905 acres of formal display gardens, important collections and natural areas including prairie, bog and woodland. The Arboretum should be an integral part of your education and relaxation. Learn to identify trees without the leaves, enjoy approximately 9 miles of beginner / intermediate cross-country ski trails amidst the winter landscape. Afterwards, relax in the Tea Room with a cup of hot soup. Location: 9 miles west of 494 on Highway 5 in Chanhassen. Pets and dogs are not allowed in cars or on grounds except those trained to assist. Disability accommodations available upon request. Grounds: 8 am-sunset daily April to October (gates close at 5:30 in winter). Building: Mon-Fri 8 am to 4:30 pm; Sat & Sun 11 am to 4:30 pm. You must show proof of enrollment.

GREENHOUSE NEWS

Roger Meissner

Classes using the greenhouse and classroom facilities during Winter Quarter are:

	<u>Instructor</u>
1023 Indoor Plants and Landscapes	Deb Brown
1036 Plant Propagation	Pete Ascher
3001 Growth Regulation of Hort Plts	Bud Markhart
3002 Hort Cropping Systems	Debbie Filler
5047 Nursery Sched & Enterp Dev	Bert Swanson

WELCOME...to new weekend student employee, **Steve Mastery**, who will be watering during winter quarter. Steve is majoring in Landscape Design and has taken many of our Hort classes. If you are working in the greenhouse on weekends, please introduce yourself to Steve.

PESTICIDES and WORKER PROTECTION STANDARDS make-up sessions will be announced in the next few weeks. Remember that if you work in the greenhouse at anytime, you must be WPS trained. Watch the Twig for further notices or call me. Besides our Saturday pesticide applications, we will be fumigating and/or fogging greenhouse sections on Wednesday evenings after 6 pm.

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

- Jan 5-30 Arboretum Photo Contest Display, Snyder Bldg Balcony. Recapture the spirit of the gardens in January as you view entries, and winners, of the 1994 Arboretum Photo Contest. Amateur photographers submit their entries from the various seasons in five categories.
- Jan 15 Weekend Discovery: Landscapes of Holland Slide Lecture, Peter Olin, 1:30-2:30. Free with paid gate admission.
- Jan 16 Celebration of Plants Used in Different Cultures, Arb Auditorium, 10-noon. Free with paid gate admission.
- Jan 22- Natural Wonders, Sundays through March 26 at 1:00 pm, Classroom # 2. Horticultural activities for the entire family. Free with paid gate admission.
- Jan 25, 28 & Feb 1....Volunteer Information Sessions. Call 443-2460 extension 346 to register.
- Jan 29 Weekend Discovery: Photographic Journey of the Greek Islands Slide Lecture. Free with paid gate admission.

Classes:

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

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

TWIG BENDER

Volume 13, #1, 1-13-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS FOR JANUARY 16-20, 1995

January 1995						
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22	23	24	25	26	27	28
29	30	31				

MON- University
Holiday - Office
Closed.

TUE- PBS Colloquium, The origin of flowering plants: an examination of Darwin's "abominable mystery", Professor Ned Friedman, University of Georgia, 3:30 p.m., 335 BorH.

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

Hort Seminar, Classical Biological control of insect pests in agriculture: The alfalfa weevil story, Dr. Ted Radcliffe, Entomology, 3:30 p.m., 415 AlderH.

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

PhD Thesis Defense Seminar, Biochemical and immunocytochemical analysis of the plant cytoskeleton (Visualization of Immunolabeled Microtubules and Microfilaments in Multiple Cell Layers of Intact Rye Root-tips Using Laser Scanning Confocal Microscopy), Marna Ericson, 10:00 a.m., 394 AlderH.

Faculty Consultative Committee, 2:00 p.m., 394 AlderH.

LESS PAPERWORK.....do NOT use a P.O. when ordering from Fisher, Stores, Midwest or American Office Products. Leave Info with Esther and she will order it "on-line" immediately. Thanks.

WELCOME NEW GRAD STUDENT.....**Diane Witte**, who is a native of St. Paul; lived in Minnesota all her life. She has a BAS degree in Teaching Life Science from UMD. She became interested in horticulture while working in the UMD greenhouses for 1 1/2 years. For fun and relaxation, she enjoys working in her gardens and tending houseplants, birdwatching, walking, aerobics and riding her husband's Harley. She is pursuing her MS under Anne Hanchek. Say hello to Diane in room 320 AlderH.

REMINDER.....comments are due on January 20 for the periodic performance review of Dr. Dave Rabas, Head of North Central Experiment Station.

The American Society of Landscape Architects, with the University of Minnesota Office of Master Planning, and The College of Architecture and Landscape Architecture present **CULTURAL LANDSCAPES *Their Care and Preservation***, A four part lectures series:

Historic Campuses - Preserving Campus Character at the University of Minnesota - Morris, Frank Edgerton Martin, HGA with introduction by Clinton Hewitt, Jan 18, 5:15 p.m.

The Landscapes of Home - Preservation Planning at the LeDuc House in Hastings, Carole Zellie, Landscape Research, Jan 25, 5:15 p.m.

River Corridors - Preservation Strategies for the Mississippi National River and Recreation Area, Susan Overson, National Park Service, Feb 1, 5:15 p.m.

National Parks and Highways - Cultural Landscapes in the National Park Service, Arnold R. Alanen, University of Wisconsin-Madison, Dept Land Arch, Feb 17, 5:15 p.m. AND Preserving Nebraska's Lincoln Highway, Carol Ahlgren, Nebraska State Historic Preservation Office.

Location: College of Arch, Central Court, 89 Church Street S.E., Mpls.

ATTENTION UNDERGRADS

CAREER SERVICES OFFICE.....announces Winter Quarter 1995 recruiting schedule. Sign-up for interviews is scheduled each Monday at 8:00 a.m. on the week preceding the scheduled interview. A complete interview list is posted on the lobby bulletin board in the undergraduate section. If you have further questions, call Jean Underwood, Coordinator at 624-2710.

AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE.
.. it is time for students of horticulture to think about their presentations at the 1995 Annual Meeting of the ASHS, which will be held in Montreal, Quebec, Canada, July 30 - August 2. Deadlines have been extended to allow you time to complete your research before writing the abstract. Abstract title and authors' names are to be submitted no later than Feb 15 and abstract no later than April 15. See your advisor for the guidelines which can be found in the Call for Papers, November 1994 ASHS Newsletter. The abstracts will be published in a later issue of *HortScience*.

FEDERATED GARDEN CLUBS OF MINNESOTA, INC. .
. . . . announces scholarships available to junior, senior or graduate students majoring in horticulture, floriculture, landscape design, conservation, forestry, agronomy, city planning, environmental concerns, land management or botany. Applications may be made by sophomores for their junior year. Application forms are available from Evonne in the main hort office.

THE AMERICAN RHODODENDRON SOCIETY.....announces research grants for research on rhododendrons and azaleas will be made by July 1, 1995 in amounts up to \$3000. A sample copy and "Guidelines for Authors of Research Papers" may be obtained from Ms. Sonja Nelson, Editor - JARS, 201-A South State Street, Bellingham, WA 98225. Deadline is April 10, 1995.

OFFICE OF HUMAN RESOURCES.....announces Professional Development Opportunity to encourage quality improvement principles and practices, with an intent of improving service to our customers -internal and external. Each program is limited to 25 participants.

Jan 19 Applying Quality Improvement Principles and Practices in the University of Minnesota Libraries Administration, 8:30-10 am, 166 EBC.

Jan 31 Systems-Thinking Course, 9-4, 52 EBC.

Feb 14 Leading and Facilitating a UM Quality Improvement Team: Donor Management System, 8:30-10:00, 62 EBC

Feb 23 Introducing the UM Quality Leadership Center, 8:30-9:30, 155 EBC.

Feb 24 Overview of Quality Improvement Problem-Solving Process and the Basic Process-Improvement Tools, 8:30-noon, 229 Nolte Center, 315 Pillsbury Dr. S.E., Mpls Campus

Mar 10 Team Leader/Facilitator Skills, 8:30-4:00, 166 EBC.

Announcements are posted across from faculty mailboxes for details.

See ya Tuesday!

TWIG BENDER

Volume 13, #3, 1-20-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS FOR JANUARY 22-28, 1995

January 1995						
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29	30	31				

MON-Agronomy & Plant Genetics Seminar, A Genome Map to Better Barley? Dr. Patrick Hayes, Oregon State University, 3:30 p.m., 306 BorH.

TUE- PBS Colloquium, Molecular marker for phasic development in English Ivy, Dr. Wesley P. Hackett, Horticultural Science, 3:30 p.m., 335 BorH.

WED- Graduate Studies Committee, 11:00 a.m., 394 AlderH.

Undergraduate Scholarship Committee, 1:00 p.m., 394 AlderH.

Hort Seminar, Growing and knowing: application in MN Landscape Arboretum, Dr. Anne Hanchek, Horticultural Science, 3:30 p.m., 415 AlderH.

RECOVERING WISHES....to Bill Lueschen, SWES Head. Dennis Johnson from WCES will assume the role of "acting associate head" on a part-time basis.

AIRPORT SHUTTLE SERVICE.....offered by St. Paul Student Center by calling four hours in advance. There are 3 options available for groups or individuals. FFI call 626-RIDE (7433).

The MINNESOTA STATE HORTICULTURAL SOCIETY (MSHS) is seeking a well-organized person with excellent communications skills to serve as Receptionist & Membership Services Secretary. This is a full-time, permanent position. Please send resume, with salary requirements by Thursday, January 26, 1995, to Personnel, MSHS, 1755 Prior Avenue No., Falcon Heights, MN 55113-5549.

SPECIALTY GARDENS SEMINARS: Saturdays, Feb 4, 18, 25, Mar 11 & Apr 8. Metro locations vary. Call the MSHS for registration and a brochure: 612-645-7066 metro, or 1-800-676-6747 outstate.

GROWING WITH GARDENING: A JOINT CONFERENCE 1995. . . . sponsored by Minnesota Landscape Arboretum and Minnesota State Horticultural Society, Saturday, February 25, 8:30 am - 5:00 pm, Hennepin Technical College, Eden Prairie. Registration deadline is February 10. Contact MSHS at 612-643-3601.

GOPHER GAME ROOM.....announces many programs and services available to faculty, staff and students across campus. **"Bowling Bonanza"** provides a social opportunity for classes to bowl FREE! Your entire class can bowl, for 1 1/2 hours (free shoe rental). Fill out the Bowling Bonanza Class Pass. The attendance of your instructor is required. Offer good until the end of finals week. See Evonne in main office for the Class Pass.

UNIVERSITY HOLIDAY SCHEDULE.....March 24, 1995 (floating); May 29, 1995 (major); July 4, 1995 (major); September 4, 1995 (major); November 23, 1995 (major); November 24, 1995 (floating); December 25, 1995 (major); December 26, 1995 (floating); January 1, 1996 (major); January 15, 1996 (major); March 22, 1996 (floating); May 27, 1996 (major). The eleventh holiday has been designated a personal holiday and must be taken before each July 1. Check with your supervisor if you have questions on the personal holiday.

ATTENTION UNDERGRADS

Bailey, Paist McGill, Hutchins, Soil & Sunshine, Smith, Allen, Graupmann, North Oaks Scholarships. The Department Scholarship Committee will be looking at your applications in the next couple of weeks. You will receive notification in February regarding your status.

10TH DISTRICT HORTICULTURAL SOCIETY....announces 3-5 \$500 Scholarships in 1995. These scholarships are available to registered horticulture students whose home residence is within the area served by the members of the Tenth District of the MSHS. This area includes Traverse, Grant, Douglas, Stevens, Popek Big Stone, Swift, Chippewa, Kandiyohi, Lac Qui Parke, Yellow Medicine and Renville Counties, and the following townships of Stearns County: Crow Lake, Crow River, Lake Henry, Zion, Lake George, North Fork, Spring Hill, and St. Martin. If you meet the above qualifications and would like to apply, please pick up an application from Evonne Kuyper in the main office of Horticulture.

VAN BLOEM GARDENS....announces horticultural scholarships to be awarded annually to a horticulture student who has demonstrated academic excellence in the field. Van Bloem, Inc., and its six division throughout the United States and Western Canada, is committed to high standards of professionalism in the horticultural industry and to the education of the next generation of horticulturists. This is an annual award of \$1500 and deadline to apply is March 1, 1995. See Evonne for application criteria.

THINK MAROON & GOLD

WEAR MAROON & GOLD

EVERY FRIDAY!

Turn in an old sweatshirt and receive 25% off a new maroon & gold shirt, at U of M Bookstores .

!!! GO GOPHERS !!!

TWIG BENDER

Volume 13, #4, 1-27-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for January 27- February 4, 1995

January/February 1995						
S	M	T	W	T	F	S
<u>29</u>	<u>30</u>	<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
5	6	7	8	9	10	11
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19	20	21	22	23	24	25
26	27	28				

MON- Agronomy & Plant Genetics Seminar, Interval Mapping of Quantitative Trait Loci, Mike Olsen, 3:30 p.m., 306 BorH.

TUE- PBS Colloquium, Biochemical and genetic characterization of maize acetyl-CoA carboxylase, Margaret A. Egli, Research Associate, 3:30 p.m., 335 BorH.

Deadline for CRIS reports - noon - faculty should check with their secretary to make sure your report is complete.

WED- Hort Seminar, Tastes great tomato debate, Marla Reicks, Assistant Professor, Food Science & Nutrition, 3:30 p.m., 415 AlderH.

THR- Hort 8066 - Discussion of written prelim - CANCELLED

NEXT FACULTY MEETING - February 13 at 1 pm.

CONGRATULATIONS.....to Dr. Marna Ericson, who successfully completed her doctoral degree and to Cheryl Reese who completed her Masters.

GREETINGS FROM A FORMER SCIENTIST.....in Mark Brenner's lab, **Otto Anderson**. He is living in the western part of Norway and working at the Western Norway Research Institute in Sogndal. They have two small children and you can e-mail greetings to him at: otto.andersen@vf.sognhs.no. Dave Larson

DEAN'S LIST FOR FALL, 1994....students who have taken 12 credits or more and received a GPA of 3.7 or higher. We commend the following students from our department: Faye Propsom, Marguerite Jaster, Melanie Cervin, Franklyn Hoffman, Mary Houge, Diana Alfuth, Thomas Casteel, Lara Dobson, Marsha Motl, Diana Panhorst, Molly Rosenberg, Jason Sheehan, Mary Start.

JOB HUNTING.....check out the Hort Opportunities, published biweekly for professionals in horticulture. It will be kept in the 3-ring job notebook located above the grad student mailboxes.

FEMALE GRADUATE STUDENTS.....in Minnesota engaged in scientific research are eligible to apply for the Agnes Hansen Award. Deadline is February 15. Info posted across from grad mailboxes.

The flowers of all the tomorrows are in the seeds of today.....Chinese Proverb.....Don White

MAROON & GOLD CASUAL FRIDAYS

MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for February, 1995

Call 443-2460, extension 106 for information

Feb 9 An Afternoon with the Director: The Kew Experience. Join Peter Olin and hear about his experience at Kew Gardens in England last summer. Refreshments will follow, Auditorium, 2:30-4:00 pm, no charge and no reservations necessary.

Feb 12 Weekend Discovery: Birds of Prey of Minnesota Slide Lecture, Auditorium, 1:30-2:30 pm, no charge for lecture with paid gate admission.

Feb 18 Chanhassen February Festival Fun Ski & Winter Activities Weekend: 2nd annual where the whole family can ski together, many prizes, tee shirts, winter activity exhibits, food, fun and more! Starts at 9 am. Register by calling 443-2460 ext 227.

Feb 20 Raptor Day: Raptor Center volunteers from the St. Paul Campus will bring several owls and talk about Minnesota owls and their babies this time of year, and other aspects of owls and environment. Auditorium, 1:30 pm.

Feb 25 Horticultural Therapy Symposium: 9-5. Call Jean Larson, 443-2460 ext 527 for a brochure and registration info.

Feb 26 Weekend Discovery: Traveling with Costa Rica slide lecture, Auditorium 1:30-2:30 pm, no charge with paid gate admission.

Classes:

Feb 1 A Victorian Valentine, 10:00 am - 12 noon \$25/30

Feb 8 Interior Landscaping: Common and Unusual Houseplants, 10:00 - 12 noon \$15/20

Feb 16 & 23 Watercolor Workshop, 9:30 am to 12:30 pm. \$50/60

Feb 20 Propagation of Woody Plants Workshop, 10:00 am - 12 noon. \$20/25

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

TWIG BENDER

Volume 13, #5, 2-3-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for February 5-11, 1995

MON- Agronomy
& Plant Genetics
Seminar,
Intragenic
Recombination,
Christian Vladutu,
3:30 p.m., 306
BorH.

February 1995						
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MON- CRIS reports due to Experiment Station

TUE- Hort 3099, Senior Seminar, Some basic employee safety regulations, John Pulju, Plant growth regulators for turf, Dan Augdahl, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

PBS Colloquium, Root development in Arabidopsis: Genes, Molecules and Mechanisms, John Schiefelbein, Professor, University of Michigan, 3:30 p.m., 335 BorH.

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

Graduate Studies Committee, 11 am, 394 AlderH.

Hort Seminar, Promotion of national landscape certification, Edward Plaster, Graduate Student, Ag Ed & Hort, 3:30 p.m., 415 AlderH.

THR- Hort 3099, Senior Seminar, Cooling down a steamed customer, Nick Scallon, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

Grad students may pick up resource material from Evonne for Feb 23 prelim question

NEXT FACULTY MEETING - February 13 at 1 pm.

SPRING REGISTRATION INFO..... Opens February 21 and continues through March 23 for undergraduates and April 7 for graduate students. Class schedules will be distributed via department mailboxes to faculty and graduate students February 15. Self registration starts February 2 by using the registration option on the Student Access System (see Evonne in main Hort office for instructions).

TEACHING ASSISTANT OPPORTUNITY.....undergraduate or graduate student to assist with Horticulture 1010, Home Horticulture, Spring quarter. Lab preparation and teaching. 10 hrs/week. Contact Wes Hackett, 252 AlderH, phone 624-9212, e-mail hacke003@maroon.tc.umn.edu.

BABY GIRL.....born to Paul & Linda Richter. Joli Anita Richter, 8 lbs 8 oz was born January 30 at 6:30 am. Paul is a graduate student with Dave Davis. Congratulations!

VOLUNTEERS NEEDED.....The Minnesota Department of Agriculture is looking for MES volunteers to facilitate Public Comment Meetings on the proposed MN Pesticide Management Plan. The purpose of these meetings is to gather citizen input and answer questions about the plan. Meetings will be held between Feb 21 and March 9 in various locations around the state. If you would like to moderate a session, contact Bill Wilcke, 625-8205, wwilcke@mes.umn.edu.

PURCHASING INFO SESSIONS...President Hasselmo recently issued a directive to the University to increase departmental spending with small businesses which are owned, operated and controlled by economically disadvantaged groups. In response to this, Information Sessions for Departmental Awareness and Involvement in Purchasing from Businesses Owned by Women, Minorities, and People with Disabilities will be held throughout the month of March. All personnel who make buying decisions are strongly encouraged to attend.

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Each session will last 1-1/2 hours and will be held at the FMC Building (business office) in Minneapolis; if there is enough interest within the department, we can request in-house training. For more information or to sign up, please see Angie Klidzejs in the Hort accounting office.

FUEL CREDIT CARDS.....some problem continue to occur with the PHH fuel credit cards. Some stations can accept their own credit cards electronically, but not the PHH card. When this happens ask the attendant to imprint the PHH card manually or check the station's manual for assistance in getting the card accepted. This problem should diminish as more stations convert to electronic billing. Continue to report problem stations to Fleet Services, 624-1083. The problems are reported to PHH if the station, brand, address, date, vehicle number and type of problem are provided. Another problem occurs when purchases are made at stations that are not on PHH's list (such as Food-n-Fuel) and Fleet Services is asked to reimburse the individual for the purchase. Effective immediately Fleet Services will charge department \$10 whenever they are required to reimburse individuals who use unauthorized stations. It is important that drivers are aware of the brands that accept the card. If you need a list of authorized brands, please contact Fleet Services.

WORKER PROTECTION STANDARD (WPS) TRAINING....will be held on Monday, Feb 13 (12-1 pm) and on February 16 (4-5 pm). Sessions will be held in 394 AlderH. If your work or teach in the Horticulture greenhouses, you must be trained in WPS. Individuals who have not been trained as of January 1, 1995 will also receive special notices of these training sessions in your mailbox. One of the standards in the WPS is as follows: if you are not trained in the WPS you cannot work in any greenhouse. Any questions, contact Roger Meissner at 4-3631 or e-mail (meiss003@maroon.tc.umn.edu).

TWIG BENDER

Volume 13, #6, 2-10-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for February 12-18, 1995

- MON- Hort Faculty Meeting, 1 p.m., 394 AlderH.
- | February 1995 | | | | | | | |
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| 26 | 27 | 28 | | | | | |
- Agron & Plant Genetics Seminar, Plant breeding strategies to address soil remediation problems, Dr. JoAnn Lamb, 3:30 p.m., 306 BorH.
- Worker Protection Standard (WPS) Training Session, noon-1 pm, 394 AlderH.
- TUE- FCC, 2-3:30 pm, 398 AlderH.
- Hort 3099, Senior Seminar, Soil Testing for Nursery and Turf Applications, Frank Hoffman, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!
- PBS Colloquium, Inositol phospholipids and signal transduction: A membrane cytoskeletal connection or how to stimulate couch potatoes, Dr. Wendy Boss, Professor, North Carolina State University, 3:30 p.m., 335 BorH.
- WED- Hort Seminar, Dr. Ris Charvat, Associate Professor, Plant Biology, Arbuscular mycorrhizal wetland/prairie research, 3:30 pm, 415 AlderH.
- THR- Hort 3099, Senior Seminar, Marketing Tips, Brian Lawrence and Simple techniques for increasing sales in the garden center, David Lewis, 11:45-12:35 pm, 415 AlderH.
- WPS Training Session, 4:00-5:00 pm, 394 AlderH.

DECISION CASE AVAILABLE.....I have a copy of the Tastes Great Tomato Debate decision case that was discussed by Marla Reicks at the Feb. 1 department seminar. See Cindy Tong.

HORT CLUB SALE.....U of MN Horticulture Club announces its' Valentines Day Sale at the St. Paul Student Union on Monday, Feb. 13 8:00am-5:00pm and Tuesday, Feb. 14 8:00am-5:00pm. You can select from spring gardens, hyacinth, daffodils, crocus, tulips, potpourri scents, lacy bows, ribbon roses. **See you there!**

WORKSHOP.....news media education workshop for faculty and administrators will be held Wednesday, February 22, from 1:00 to 4:30 p.m. in the Earle Brown Center. The workshop will feature a panel discussion with Twin Cities journalists who will answer your questions about dealing with the media. Panel members are John Culliton, general manager of WCCO-TV; Jim Dawson, staff writer at the Star-Tribune; Lee Egerstrom, staff writer at the St. Paul Pioneer Press; and Mary Losure, reporter/producer at KSJN. The workshop is free, but space is limited so early registration is recommended. To register, call Sybil Woutat in FScN at 624-1764 (or email at swoutat@che2.che.umn.edu). The Foundation for American Communications is presenting the event, which is jointly sponsored by a grant from the W.K. Kellogg Foundation and by the College of Human Ecology, the Department of Food Science and Nutrition (FScN), and the Minnesota Extension Service.

STUDENT LOANS.....Congress is considering measure that would discontinue government subsidized student loans. Currently the federal government pays interest on some student loans for as long as the student is in school plus 6 months after the student graduates. If Congress does eliminate the interest exemptions, it could increase the cost of the loans up to 50%. Hit especially hard would be those students pursuing graduate education, with PhD students being hurt most. We urge you to contact your Congressman. For more information, including a sample letter or phone numbers for your Congressman, contact Daniel Warnock, 358 AlderH. or Kerry Strope, 352 AlderH.

STUDENT WORKER/MANAGER.....position available for the Hort Display/Trial Garden. PT flexible (15-20 hr/wk), Spring Quarter, full time in summer (40 hr/wk). Contact Brad Pedersen 624-7407 ASAP.

A VERY BIG THANK YOU.....to the department for donating the 10 turkey gift certificates from the Twelve Baskets Program. Karen Peterson, Twelve Baskets Coordinator.

CONGRATULATIONS.....to Arthur (Butch) Peterson on being appointed Commissioner of Agriculture for the U.S. Virgin Islands. Butch is a former graduate student with Dave Davis. This is impressive! Best of luck.

GRAD SCHOOL TUITION SCHOLARSHIP.....are available each quarter to assist students to making good progress toward completing their degrees in a timely fashion. Students apply directly to the Graduate School Fellowship Office, 321 Johnston Hall, 625-7579. See yellow posting across from grad mailboxes.

Maroon & Gold Casual Fridays

More participants in our department each week. Great to see all that maroon and gold! Thanks.

HAVE A GOOD WEEKEND



TWIG BENDER

Volume 13, #7, 2-17-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for February 19-25, 1995

MON- President's
Day

Agronomy &
Plant Genetics
Seminar,
Breeding Apples,
Gustavo Robleto,
Masters student
with P. Ascher,
3:30 p.m., 306 BorH.

February 1995						
S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>
26	27	28				

TUE- Spring Quarter registration begins

Hort 3099, Senior Seminar, Effective communication in management, Stephanie Thompson, AND The distinct advantages of domestic roses, Melanie Cervin, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

PBS Colloquium, Specification of meristem identity in pea inflorescences, Susan Singer, Professor, Carleton College, 3:30 p.m., 335 BorH.

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

Graduate Studies Committee, 11:00 a.m., 394 AlderH.

Hort Seminar, Interactions between ecology & genetics in studies of plants & their pathogens, Helen Alexander, University of Kansas, 4:00 p.m., 335 BorH.

THR- Prelim Exam - grad students pick up question from Evonne, 8-4 pm, 398 AlderH.

Hort 3099, Senior Seminar, Installation & maintenance of water gardens in Minnesota, Sara Batterman AND Factors to consider when buying nursery stock, Dan Mortensen, 11:45-12:35 pm, 415 AlderH.

STUDENT WORKER/MANAGER.....position available for the Hort Display/Trial Garden. PT flexible (15-20 hr/wk), Spring Quarter, full time in summer (40 hr/wk). Contact Brad Pedersen 624-7407 ASAP.

TEACHING ASSISTANT OPPORTUNITY.....undergraduate or graduate student to assist with Horticulture 1010, Home Horticulture, Spring quarter. Lab preparation and teaching. 10 hrs/week. Contact Wes Hackett, 252 AlderH, phone 624-9212, e-mail hacke003@maroon.tc.umn.edu.

MISSING.....pen size laser pointer taken from the greenhouse classroom on 2/13 or 2/14 after Hort 1023 (Brown). Used regularly and expensive to replace. Please return to Deb Brown, Jeff Hahn or Dial U secretary in 155 Alderman Hall. Thanks.

KERMIT OLSON MEMORIAL LECTURE.....March 6, 33 McNeal Hall. Awards ceremony at 3:30 p.m. followed by a presentation at 4:00 p.m. by Dr. David Pimentel from Cornell University. Dr. Pimentel is a professor of insect ecology and agricultural sciences. His research spans the field of basic population ecology, genetics, ecological and economic aspects of pest control, biological control, energy use and conservation, and natural resource management and environmental policy. The title of Dr. Pimentel's presentation will be Population, the environment and the future. A reception honoring Dr. Pimentel and department scholarship and award recipients will follow the lecture.

Maroon & Gold Casual Fridays

GO GOPHERS

HAVE A GOOD WEEKEND



TWIG BENDER

Volume 13, #8, 2-24-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for February 26 - March 4, 1995

February/March 1995						
S	M	T	W	T	F	S
<u>26</u>	<u>27</u>	<u>28</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

MON- Agronomy & Plant Genetics Seminar, Breeding for improved mineral use efficiency, John McLaughlin, 3:30 p.m., 306 BorH.

TUE- PBS Colloquium, Ecological and genetics interactions between the Fungus Atkinsonella hypoxylon and Danthonia Grasses, Professor Keith Clay, Indiana University, 3:30 p.m., 335 BorH.

Hort 3099, Senior Seminar, Utilization of the universal product code for inventory control in retail garden centers, Jason Jacobs AND The utilization of ecology in the designing, Jamel Anderson, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

WED- Faculty Plans & Accomplishments are due. Faculty are asked to turn them into Evonne and make your performance evaluation at that time.

International Ag & Plant Pathology present In the shadow of poison? A panel discussion on international pesticide use issues with keynote speaker Dr. Norbert Hirschhorn, Dept. of Health Management and Policy, 3:00-4:30 p.m., 365 BorH. Refreshments at 2:45 p.m. Everyone is welcome!

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

Hort 3099, Senior Seminar, Considerations of environmental impacts and plant growth regarding various fertilizers and

THR- irrigation techniques, Faye Propsom, U of M Horticulture Outstanding Student for 1995 American Society of Horticultural Science, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

Faculty Consultative Committee 2:30 p.m., 398 AlderH.

CHILI TASTE LUNCH.....is set for Thursday, March 2 at 12:00 noon in Shirley's Kitchen. Contestants are asked to assemble earlier. There are currently 6 people signed up for the competition. Non-contestants are asked to bring crackers, bread, butter, chips, dessert, milk, etc. Come sign up in the back hall.

REMINDER TO.....faculty and students that all office computers and typewriters are not available for student use. Such equipment is available for student use in room 201.

KERMIT OLSON MEMORIAL LECTURE.....March 6, 33 McNeal Hall. Awards ceremony at 3:30 p.m. followed by a presentation at 4:00 p.m. by Dr. David Pimentel from Cornell University. Dr. Pimentel is a professor of insect ecology and agricultural sciences. His research spans the field of basic population ecology, genetics, ecological and economic aspects of pest control, biological control, energy use and conservation, and natural resource management and environmental policy. The title of Dr. Pimentel's presentation will be Population, the environment and the future. A reception honoring Dr. Pimentel and department scholarship and award recipients will follow the lecture.

ATTENTION GRAD STUDENTS....lunch for grad students with Dr. Pimentel on March 6 at 12 noon. Sign up with Kathy Lloyd by March 3 if you want a free lunch.

AND

Volunteers are needed to help with the Kermit Olson Lecture. Four to six people are needed. If you are available for any length of time between 2:30 and 6:30 pm on March 6, please contact Daniel Warnock or Kathy Lloyd. Thanks.

BE FAMOUS, NAME THESE NEW PLANT RELEASES

Gymnocladus dioica (Kentucky Coffeetree) - a seedless male selection with a fairly upright form. 'Mr. Coffee' is a popular choice for a name but we think a certain appliance manufacturer might sue us.

Phellodendron sp. (Corktree) - a seedless male selection, somewhat upright habit. This may be a hybrid of Sakhalin and Amur Corktrees.

Rhododendron sp. (Azalea selection #113) - another hardy deciduous azalea for the Lights Series. Flower color is clear yellow (no orange tones like 'Golden Lights' has). The word "Lights" needs to be a part of the name (e.g. 'Lemon Lights').

Fraxinus pennsylvanica (green Ash) - a green ash selection originally from Iowa. Has good glossy green foliage and a fairly dense, rounded habit. Good branching pattern.

We need cultivar names for these four new plant introductions. Submit name suggestions to Nancy Rose by **March 3**. (Arboretum FAX 443-2521 or phone 443-2460 x 132)

MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for March, 1995

Call 443-2460, extension 106 for information

- March 26 Natural Wonders: Horticultural activities for the entire family at no additional charge. Sundays, through March 26; beginning at 1:00 p.m., meet in classroom #2.
- March 1-5 Home and Garden Show: Minneapolis Convention Center
- March 9 Suburban Album: Images of our Time. Suburban Documentation Project, 7:00-8:30 p.m., Auditorium. Slide lecture on impact of suburban growth on our lifestyle and environment. In collaboration with Carver County Historical Society and Minnesota Humanities Commission. Refreshments provided; no additional charge for this lecture.
- March 11-26 Dayton Bachman Flower Show: Minneapolis Dayton's Auditorium.
- March 12 Weekend Discovery: Kew and the Gardens of England Slide Lecture with Director Peter Olin. Arb Auditorium. No charge with paid gate admission.

March 26 Weekend Discovery: Alaska Adventures Slide Lecture with Deb Brown. Arb. Auditorium. Refreshments will follow, Auditorium, 2:30-4:00 pm, no charge and no reservations necessary. No charge with paid gate admission.

Classes:

- March 4 Pruning and Training Fruit Trees, 1-3 pm. \$15/20.
- March 7 Techniques for Saving Seeds, 10-12 noon. \$15/20.
- March 15 Extending the Gardening Season, 10-12 noon. \$15/20.
- Mar 23-May 4 Home Landscape Class, 6 Thursdays, 6:30-8:30 pm. \$65/80.
- March 25 Pruning Landscape Trees & Shrubs, 1-3 pm, \$15/20.
- March 25 Vegetable Gardening, 1-3 pm, \$15/20.

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

Maroon & Gold Casual Fridays

GO GOPHERS



TWIG BENDER

Volume 13, #9, 3-3-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for March 5-1, 1995

March 1995						
S	M	T	W	T	F	S
			1	2	3	4
<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

MON- Brown bag lunch with Dr. Pimentel for department graduate students, 12:00 pm, 394 AlderH. If you haven't already signed up please do so with Kath Lloyd.

Agronomy & Plant Genetics Seminar, The Future of Public Plant Breeding, Dr. Stephen Baenziger, University of Nebraska, NOTE TIME CHANGE 3:00 p.m., 306 BorH.

Kermit Olson Memorial Lecture and Departmental Awards Ceremony, Population, the Environment and the Future, Dr. David Pimentel, Cornell University, 3:30 p.m., 33 McNeal Hall.

TUE- Hort 3099, Senior Seminar, Effects of Mulch on Plant Growth, Kristi Hausladen, AND Improving the Success of your Interview, David Longville, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

WED- Undergraduate Affairs Committee, 8:30 a.m., 398 AlderH.
Graduate Studies Committee, 11:00 a.m., 398 AlderH.

Hort Seminar Cancelled.

THR- Hort 3099, Senior Seminar, Proper Experimental Design, Tom Marron, AND Plantscaping: Bringing the Indoors Alive, Natasha Justis, 11:45-12:35 pm, 415 AlderH. Everyone is welcome!

THR- PBS Colloquium, Cell and molecular control of light regulated gene expressions, Professor Nam-Hai Chua, Rockefeller University, New York, 3:30 p.m., 335 BorH.

Hort 8066, Discussion of prelim questions. Drs. Swanson, Li, Wildung question on Management of winter stress in horticultural crops AND Drs. Ascher, Luby, Smith on Application of molecular procedures in horticultural crop research. NOTE TIME CHANGE to accommodate PBS Colloquium, 4:30 p.m., 394 AlderH.

MARK CALENDARS....College of Agriculture Faculty Assembly Meeting for Winter Quarter is Wednesday, March 15, 1-3 pm, 15 FScN and for Spring Quarter, Thursday, June 8, 1-3 pm (room to be announced).

ALL DAY CONFERENCE...Foodways: foods and wellness across culture sponsored by U of M Food Systems Professional Education. This exciting full-day conference will bring together a unique variety of speakers on cross-cultural nutrition issues. Through plenary sessions and many concurrent session options, participants will learn about the meaning of food, food choices, and the relationship of nutrition to health in many different culture. In this age of increasing sensitivity to diversity, this program will provide participants with a rich opportunity to expand their knowledge in foodways of different culture and respond to their need to develop culturally sensitive practices. Cost: \$85.00, Date: March 27 (8-4:15), location: Earle Brown Center, deadline to register is March 13 by contacting Boni Petrich, 625-1832.

AMERICAN ASSOCIATION OF BOTANICAL GARDENS & ARBORETA Midwest Regional Meeting for 1995 will be held at The Holden Arboretum, Mentor, Ohio, June 21-24. Not Growing It Alone - Partners In Public Horticulture, features pre-conference workshops & tours, "Opening the door to accessibility", "Planning & Operating a Public Garden Nursery", "Geology of Lake County - Natural Areas Tour", "A Day at Sea World of Ohio". Mark your calendar now!

THE BIG CHILI.....On Thursday, March 2, The Annual Horticulture Departmental Chili Cook-Off took place in Shirley's Kitchen. Seven contestants competed for this year's Chili Champion title, so the peppery delights were plentiful as well as diverse. The winning entry was from Bethany Davidson, from CAPAP. Her creation, "Aloha Chili", was rumored to contain pineapple and feta cheese. At Ms. Davidson's post-Award Ceremony acceptance speech she thanked each judge personally, obviously overcome with emotion as she whispered (almost inaudibly), "This is the greatest honor I have ever received." In past years, departmentally designated judges have been used to choose the best chili. This year, voting was done by volunteers who used a complex numerical scoring system plugged into a sophisticated statistical program to decide on the winner. Non-participants were invited to contribute breads, cheeses, salads, and other culinary compliments to share at the flavorful feast. Discussions regarding the possibility of including a Best of Bread Contest, either simultaneous with the Annual Chili-Off or as an independent contest, were rampant. Participants were given roses, which were donated by Nail Anderson. Patrice Johnson

OPERATION ACTIVITY..... is a program sponsored by the Department of Recreational Sports to provide an opportunity for faculty and staff to meet their personal goals with a flexible fitness program. Participants need NOT be a current recreational sports member. Teams of five (5) individuals register and gain points for various activities which work towards three (3) program prizes. The program runs April 9 - June 3. Deadline to register is April 5. See Laura Kalish for more details.



GO BEARS

MAROON & GOLD CASUAL FRIDAY



White Bear Lake vs Hill-Murray, Mariucci Arena, 3/3, 9 pm.

TWIG BENDER

Volume 13, #10, 3-10-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for March 12-18, 1995

March 1995						
S	M	T	W	T	F	S
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5	6	7	8	9	10	11
<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>
19	20	21	22	23	24	25
26	27	28	29	30	31	

MON- Last day of Winter Quarter classes

PB Seminar, Breeding for stress tolerance, Nadyia Al-Saad, 3:30 p.m., 306 BorH.

TUE- Final Exams begin

WED- University Pay Day

THR- Faculty Consultative Committee, 2:30 p.m., 398 AlderH.

Safety Meeting, Farm Safety, Dr. John Shutske, 10:30 a.m., 335 BorH. See article for further details.

FRI- St. Patrick's Day

STUDENT WORKER/MANAGER.....position available for the Hort Display/Trial Garden. PT flexible (15-20 hr/wk), Spring Quarter, full time in summer (40 hr/wk). Contact Brad Pedersen 624-7407 ASAP.

BOARD OF REGENTS.....approved the following new names: College of Agricultural, Food, and Environmental Sciences (was COA), Department of Soil, Water, and Climate (was Soil Science), Department of Biosystems and Agricultural Engineering (was Agricultural Engineering), and the Department of Agricultural and Applied Economics will become the Department of Applied Economics next month.

RETURN.....Evonne's double-sided tape dispenser, please.

NEW BIOSAFETY PROCEDURE....for decontamination of infectious materials by autoclaving is to use clear, plastic bags instead of the orange biohazard bags. Waste facilities receiving University non-infectious waste were refusing to take the orange bags because of the biohazard symbol. To comply with OSHA regulations, use the new bag and put it in a reusable support container (like a trash can). Label the support container with a biohazard symbol. AFTER autoclaving the infectious waste in the new bag, dispose of the bag with waste with the regular trash. If you need bags, let me know. A box comes with 200 bags, and I probably won't need all of them this year. Cindy Tong

NEWS FROM RICK HARRISON.....Roxanne and I have now moved to Perth. Perth is a smaller town of around 70,000 that is about 20 miles west of our old address in Dundee. This has made Roxanne's commute to work in Edinburgh about 30 minutes shorter each way. It is now down to under an hour. Our new address is: 3 Muirend Grove, Perth PH1 1JW, Scotland, UK. Our new phone number is: 738 620781. After April 15, you have to put a 1 before the 738. The country code is still 44. That's it. Drop us a line or a phone call if you get a chance. Rick Harrison

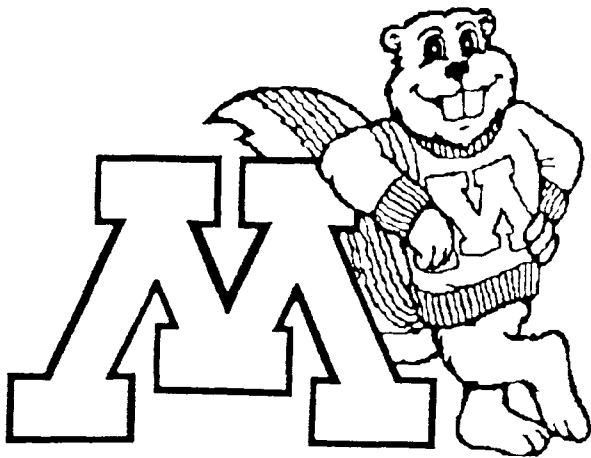
HELP! I've loaned out a couple of books and can't remember to whom. They are: Annual Review of Plant Physiology and Plant Molecular Biology, Vols. 41 and 44. If you have them, please return. Thanks. John Carter

UNDERGRADUATE TEACHING ASSISTANT OPPORTUNITY.....Must be enrolled in an undergraduate program. Educational background should include at least 1 high school or college course that included an introduction to computing. Skills in working with Macintosh, IBM, and computer networks preferred. Experience should include at least 6 months of microcomputer experience or training in school or work experiences would be helpful. Class no. 9512/13, Rate: UGTA I-\$6.63-\$7.43, begins--March 1995 Ends--Open, one opening 15 hours/week, schedule arranged, Job numbers: Work-Study R - 9503 803T, Non Work-Study C7 - 9503 803T. Apply at 120 Fraser Hall. FFI contact Linda Jorn, Coordinator of Instructional Computing, COA, 202 Haecker Hall. Also see posting on Alderman lobby job board.

FARM SAFETY.....there will be a farm training safety seminar on Thursday, March 16 from 10:30 am to 12:30 pm in 335 Borlaug Hall. Dr. John Shutske will speak on the prevention of machinery/tractor injuries and agricultural health concerns including respiratory problems, hearing loss and cancer (primarily skin). This is for Project Personnel that use the departments and projects equipment such as tractors, tillers, planters, mowers, carter harvesters, threshers, and similar plot equipment. All employees who work in and around field plots are required to attend to fulfill MERKTA requirements. Mark your calendars!

REMINDER.....to all users of the Crops Services Building: I have just finished throwing out unmarked samples that were sitting on carts, racks, tables, the floor and dryers. These samples were collecting mice, dirt and were in other peoples way. If these were of some importance to anyone, its too late. If they were no longer of any importance, then they should have been thrown in the dumpster. Mike McClellan (4-5395).

HAPPY MAROON & GOLD CASUAL FRIDY!



TWIG O'BENDER

Volume 13, #11, 3-17-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for March 19-25, 1995

March 1995						
S	M	T	W	T	F	S
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<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>
26	27	28	29	30	31	

SUN- Minnesota O' Gardening, Channel O'6 MCN, 9 am & 9 pm, Front Yard and Safety Landscaping: Is your home landscaped for safety? Tips and suggestions to deter burglars from your home by effective landscaping.

MON- First Day of O'Spring

TUE- Grades due to Evonne O'Kuyper by 4 pm.

WED- No UAC/GSC meetings

Environmental Hort Major Subcommittee, 8:30 a.m., 398 AlderH.



THANKS....from Meghan Sinclair for the beautiful flowers that were sent to my Papa's wake. "They were very much appreciated!" She thanks everyone for their support and understanding during the last six weeks while her grandfather was ill. The department sends their sincere condolences.



GARDEN PLOT O'SIGN UP....the garden plot sign up sheet will be posted on **March 27** near the mailboxes. Plots will be assigned by April 1st. Plots are assigned on a first come, first serve basis and are limited. Plots are available to Department of Horticultural Science undergrads, grads, faculty and staff. THX....Daniel Warnock



GET IN SHAPE....for a prescribed fitness routine to prepare everyone for sweet corn planting, please see Dave O'Davis, who says its not too early to begin. Phase 1: start running any direction in your off time; turn around when you are half-tired.



ATTENTION GRAD ASSISTANTS....to be excluded form FICA withholding Spring 1995, you must meet the exclusion tests which are: (1) enroll for a minimum of 6 credits; or minimum of 1 credit for doctoral candidates and (2) be employed for no more than 50% time or twenty hours per week. Registration deadlines to meet FICA requirement Spring '95: March 23-biweekly payroll, March 27-regular payroll.



MEN'S GARDEN CLUB OF MINNEAPOLIS, INC. announces a scholarship to a student of horticulture in 1995. MGCM will be awarding at least one \$1,000.00 scholarship to student(s) interested in a career in horticulture, landscaping, or a related professional area. MGCM is a group of men and women interested in gardening, landscaping and improving the communities in which we live. This scholarship will be awarded to a student who has career goals consistent with the interests of the MGCM. See Evonne for application and specific criteria. Deadline to apply May 1, 1995.



CURTIS DEARBORN MEMORIAL HORTICULTURAL SCHOLARSHIP...is being offered to a student studying for an advanced degree in some phase of horticulture The amount is \$1,000.00 for the school year 1995-96. See Evonne for application. Deadline is June 1, 1995.



April 1 & 2 - Sugarbush Pancake Brunch and Maple Tour -Minnesota
Landscape Arboretum, Chanhassen, Minnesota

CALENDAR/NEWS for April 2-8, 1995

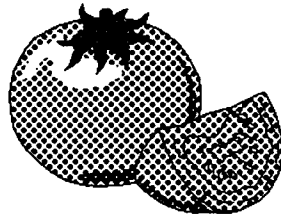
April 1995						
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<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MON- Saints
Baseball Group
ticket sales
begin at 9 a.m.
Make your
summer plans
early to take
family/friends to
a game.

TUE- GSC, 10:30 a.m., 398 AlderH.

FRI- Fourth Annual Conference, Planting on the Edge:
Sustainable Landscapes, sponsored by the Minnesota
Landscape Arboretum and the Minnesota Chapter of the
American Society of Landscape Architects, 8 am - 4 pm,
Minnesota Landscape Arboretum, \$60, \$15 students.
Deadline to register is March 31, 1995. Contact Carol
Spandl at 443-2460 ext. 772.

WORLD RECORD TOMATO...Some time
back, the Twig ran an article regarding
\$200,000 for your school for growing the
world record tomato. With all our skilled
scientists, expertise in growing
techniques and devices, who in our
Department of Horticultural Science is
taking on this challenge? In this year of
tight budgets, it's an opportunity you
can't afford to overlook. Being
sponsored by Miracle-Gro and NK Seeds, you must have used
these two products to win. There's no entry forms, no proof-of-
purchase, no sales slips. All you need to do is grow a tomato that
exceeds the world records of **seven pounds, twelve ounces**.
Please correspond with the Twig if you're out there raising that
world record tomato to represent our Minnesota Hort Dept.



GREENHOUSE NEWS

Roger Meissner

Cooling Season....Spring is upon us and that means warmer
temperature. Aspen cooling pads are now being installed and
cooling pad pumps should be up and running in the next two
weeks.

Pesticide Application....during Spring Quarter will take place
on Saturday mornings and Tuesday evenings. Please be alert
to pesticide posting signs. No one is allowed in greenhouse
sections while the REI is in effect. Also refrain from using
the greenhouse facility on Saturday mornings before 10 a.m.
Remember, if you need to work in your greenhouse section on
Saturday mornings that you let Martha know in advance so
she can schedule pesticide applications.

WPS Training.....when hiring students for greenhouse or field
plot work that they must be WPS trained. Please have contact
me for WPS training. Any questions call me.

EDITORSHIP.....Neil Anderson has assumed the editorship of the
Plant Cell Incompatibility Newsletter. This journal specializes in
papers on plant reproduction biology.

TAKE OUR DAUGHTERS TO WORK (especially 8-15 yrs old).
Thursday, April 27, a public education program of the Ms.
Foundation for Women, was launched in 1993 in response to
disturbing research findings on the adolescent development of
girls. While pre-adolescent girls are usually spunky, confident, and
more than happy to voice their opinions, something happens
during adolescence that causes many girls to "lose their voice."
During adolescence, girls often receive less attention in school and
suffer from lower expectations than do boys, and tend to like or
dislike themselves based on aspects of their physical appearance
according to Harvard University researchers and the American
Association of University Women. More details when available.

PHILIP C. HAMM MEMORIAL LECTURE..... Creating a new natural resource management paradigm from ecological science: the evolution of ecosystem management, Dr. Jerry F. Franklin, Professor of Ecosystem Analysis, College of Forest Resources, University of Washington, Seattle, Washington, Thursday, April 27, 3:30 p.m. (reception) 4:00 p.m. (lecture), 110 Green Hall.

PHILIP C. HAMM MEMORIAL SCHOLARSHIP PROGRAM.....for undergraduate and graduate students in plant sciences and related disciplines. Please see your advisor to be nominated for this prestigious award. Awards will be based entirely on merit and the recipients will be recognized at the Philip C. Hamm Memorial Lecture. Deadline for receipt of nominations is April 3. Submit nomination (vitae, transcripts, 2 letters of recommend, documentation of scholarly activities) to Dr. Laurie Hayes, CAFES, 277 Coffey Hall.

DEAN E. M. FREEMAN MEDAL.....and certificates are significant awards bestowed by the St. Paul campus community upon graduating seniors, who have demonstrated an unusual sense of personal responsibility for the welfare of the University and its community. The late Dean E. M. Freeman served as the Dean of the College of Ag, Forestry and Home Economics from 1917 to 1943 and was noted for his constant interest in and devotion to all activities that promoted student leadership and self development. Nomination deadline: Friday, April 7. Contact Sandra Kelsey, 625-9225 for more information.

Retirement Party Column

Don Barnes, Agronomy & Plant Genetics, Saturday, June 10, 6 p.m., Lidos' Restaurant in Roseville. Details soon.

LENTEN SEASON....Minnetonka Choral Society offers Johan Sebastian Bach's "St. John Passion" from Gethsemane to Golgotha. Please join **Anne Hanchek** (alto section) for this very special performance featuring professional orchestra and a stellar

cast of soloists plus St. Olaf professor emeritus, Donald Hoiness, in his farewell appearance. Come let this great music renew your spirit! Sunday, April 9, 4 p.m., Wayzata Community Church, 125 East Wayzata Blvd. Tickets at the door \$7.50 adults; \$5 students/seniors.

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for April, 1995
Call 443-2460, extension 106 for information

April 15 Lifting of the Roses, 8 a.m. The Minnesota Rose Society uncovers the roses buried last fall using the Minnesota Tipping Method.

April 28 Arbor Day

Classes:

April 12 & 19 Floral Jewelry Workshop, 10-noon. \$25/30

April 18 Gardening with Prairie Plants, 10-noon. \$15/20

April 24 Plant Combinations for Containers, 10-noon. \$15/20

April 26 & May 3 Spring Woodland Wildflowers, 10-noon. \$20/25

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

Maroon & Gold Casual Fridays

GO GOPHERS

GOPHER BASEBALL.....vs Illinois, Siebert Field, April 7 (3 pm), 8 (1 pm), 9 (1 pm) April 12 vs North Dakota State 3 pm game.



TWIG BENDER

Volume 13, #13, 4-7-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for April 9-15, 1995

April 1995						
S	M	T	W	T	F	S
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2	3	4	5	6	7	8
<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MON- Greenhouse Comm., 8:00 am, 398 AlderH.

Retreat Facilitator Mtg, 1:00 pm, 394 AlderH.

WED- Department Retreat Stub Hall, 8:30 am - 9 pm.



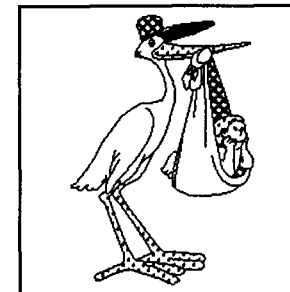
UPCOMING EVENTS.....

Lab Fest..... April 27, 10 am - 4 pm, Radisson Hotel Metrodome
Lab Services is sponsoring its annual Scientific Product Show of
80+ scientific vendors and University departments with lab-
supporting functions. This is a one day event. Once for the
technical seminars, stay for food & door prizes! \$500 Grand Prize
in lab supplies will be donated by participating vendors. FFI 624-
8024.

St. Paul Campus Retirement Recognition Luncheon..... May 9,
noon, at the Earle Brown Center. This is a special chance to think
back, as well as look ahead. It's an opportunity to draw attention
to the many significant contributions our retirees have made to the
University of Minnesota and the St. Paul Campus. Make
reservations with Laura Kalisch no later than Monday, April 17.
Tickets are \$6.00

CONGRATULATIONS.....**Dr. Emily Hoover** has been chosen to
receive this year's Horace T. Morse-Minnesota Alumni Award for
Outstanding Contribution to Undergraduate Education.

NEW BABIES.....a baby boy to Gerard &
Debby Engelen-Eigles on March 5
named Chaim Meir and a daughter,
Katherine Rae to Karl & Cristy Sauter on
April 3. Much happiness to both
families!



ATTENTION BI-WEEKLY SUPERVISORS. . . . several changes in bi-
weekly payroll are being implemented immediately. These
changes will include new time card due dates, new time card
formats and a slightly different pay period. Pay dates will not
change. Time cards, with required signatures, will be due
Monday, April 17 at 9 a.m. (include work hours through April 16).
Time cards turned in after 9 a.m. WILL NOT be accepted for the
current pay period. Please alert your bi-weekly employees to these
changes. Thank you in advance for your cooperation...Patrice
Johnson

GARDEN PLOT....if you think you signed up for
a garden plot and did NOT receive a plot
assignment by now, please leave a message in
my graduate student mailbox or contact me.
Thanks. Daniel Warnock (358 AlderH).



MAROON & GOLD CASUAL FRIDAYS
(Dig out those Gopher t-shirts today)

GO GOPHERS

Gopher Baseball....vs Illinois, Siebert Field, April 7 (3 pm), April 8
(1 pm) and April 9 (1 pm).....April 12 North Dakota State (3 pm)
See you there!

SPRING IS HERE..... and children and adults have been known to contact 'Spring Fever'.

SICK by Shel Silverstein

"I cannot go to school today,"
Said little Peggy Ann McKay.
"I have the measles and the mumps,
A gash, a rash and purple bumps.
My mouth is wet, my throat is dry,
I'm going blind in my right eye.
My tonsils are as big as rocks,
I counted sixteen chicken pox,
And there's one more..that's seventeen,
And don't you think my face looks green?
My leg is cut, my eyes are blue,
It might be instamatic flu.
I cough and sneeze and gasp and choke,
I'm sure that my left leg is broke.
My hip hurts when I move my chin,
My belly button's caving in.
My back is wrenched, my ankle's sprained
My 'pendix pains each time it rains.
My nose is cold, my toes are numb,
I have a sliver in my thumb.
My neck is stiff, my voice is weak,
I hardly whisper when I speak.
My tongue is filling up my mouth,
I think my hair is falling out.
My elbow's bent, my spine ain't straight,
My temperature is one-o-eight.
My brain is shrunk, I cannot hear,
There is a hole inside my ear.
I have a hangnail, and my heart is, what?
What's that? What's that you say?
You say today is....Saturday?
G'bye, I'm going out to play."



TWIG BENDER

Volume 13, #14, 4-14-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

EARTH WEEK CALENDAR/NEWS for April 16-22, 1995

April 1995						
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23	24	25	26	27	28	29
30						

- MON- Faculty Meeting, 1:00 p.m., 394 AlderH.
- TUE- Graduate Studies Committee, 10:30 a.m., 398 AlderH.
- THR- Prelim Examination, 8-4, 398 AlderH. Graduate students pick up question from Evonne in main office.
- Faculty Consultative Committee, 11:00 a.m., 394 AlderH.
- FRI- Third Friday Happy Hour, 4:30 p.m., Alderman Lobby.



BRING YOUR DAUGHTER(S) TO WORK DAY.....on Thursday, April 27, 1995. The University of Minnesota St. Paul Campus event includes a kick-off in the North Star Ballroom, visits to the workplace, campus tours, and an ice cream social. You will receive a Daughter(s) Day flyer and registration form in campus mail. Remember to return your registration form to CAFES by Wednesday, April 19. We anticipate that this will be an exciting day for young women of all ages. Please plan to join in!

HAPPY BIRTHDAY TO YOU.....

Doug Foulk	April 6
Amy Moberg	April 8
Jan Backlund	April 10
Cyndy Herring	April 16
Peter Olin	April 16
Curt Reese	April 26
Wes Hackett	April 28



Cake and coffee will be served for these birthday kids on April 28 at 9:30 a.m., room 394 Alderman.

COLORING CONTEST.....thanks to the talented artists (Diane Galatowitsch, Don Koza, Martha Piechowski, Angie Klidzejs, Keelan McNeil and Maya McNeil) for entering the coloring contest. The six entries were judged by three unbiased judges (Zimmerman, Schwarze, Kalisch). They lamented for hours and finally came in with a decision (difficult to choose as it was). The winner entry belongs to **Maya McNeil**. Congratulations! Budget restrictions limited the committee to one GRAND PRIZE. Wear it proudly Maya.

ACCOUNTING STAFF....will be out of the office most of the day on Thursday, April 20th. They'll be attending a University-wide CUFS User Network meeting on the Minneapolis Campus. If you need anything, please plan ahead and let us know in advance. Thanks for your cooperation....Angie Klidzejs.

FOR SALE.....bicycle carrier which mounts on bumper hitch of blazer type vehicle, carries two bikes.....used once...will sacrifice \$50 cash (no checks)...see Evonne in main office.

CAFES GRADUATION.....is scheduled for June 4 at 3 p.m. Details will be published as they become available.

Don't forget
MAROON & GOLD CASUAL FRIDAYS

over

Greenhouse News
Roger Meissner

Pesticide of the Week...Diazinon (Knox-Out), class: organophosphate. Diazinon is a broad-spectrum insecticide with uses against many chewing and sucking pests. In the greenhouse we use the microencapsulated formation called Knox-Out. It has a caution label and a R.E.I. of 12 hours.

Safety Tip of the Week...Information is out of our Department Chemical Hygiene Plan. When to use Personal Protective Equipment, EYE PROTECTION is required for all personnel and any visitors whose eyes may be exposed to chemical or physical hazards. LAB COATS are required when working with select carcinogens, reproductive toxins, substances which have a high degree of acute toxicity, strong acids and bases.

TWIG BENDER

Volume 13, #15, 4-21-95, Editor: Martha Piechowski

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

CALENDAR/NEWS for April 23-29, 1995

April 1995						
S	M	T	W	T	F	S
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30						

MON-
TUE-
WED-

THR- Bring your daughter(s) to work day, kick-off in the North Star Ballroom.

Lab Fest '95, Radisson Hotel Metrodome, 10:00 am to 4:00 pm. See yellow flyer for list of seminars and vendors.

FRI- Cake and coffee will be served for the persons with April birthdays on April 28 at 9:30 a.m., room 394 Alderman.

SAT- Arbor Day. Check your local newspaper for activities.

Congratulations **Deb Brown** for winning one of five Academic Staff Awards for 1995. She will be presented her award on May 2. Good work!

Congratulations to **Emily Hoover** who received the Horace T. Morse-Minnesota Alumni Association Award recently for Outstanding Contributions to Undergraduate Education.

Governor Arne Carlson has proclaimed the week of April 24-30, 1995 to be "Tornado Awareness Week" in Minnesota with Thursday, April 27 designated as the statewide tornado drill day. There will be two "briefings" designed to answer questions on detection, warning and recommended action. April 26th at 10:00 am in the Bell Museum on the Minneapolis campus and 2:00 pm on the St. Paul campus in

Classroom Office Building, room B-25. It is hoped that all departments will be represented at one of these presentations.

There will be a **Daily Coffee Hour** in the lobby of Alderman starting this Monday, April 24, at 10:00 a.m. So bring your favorite beverage and come on out for some engaging conversation. Get to know the students and people you work with in the Department and help build a comfortable, friendly, and rewarding environment.

TWIG BENDER

Volume 13, #15, 4-28-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for May 1-6, 1995

May 1995						
S	M	T	W	T	F	S
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation. Lobby.

MON- May Day

Faculty Consultative Committee, 10:30 - noon, 398 AlderH.

TUE- Graduate Studies Committee, 10:30-11:30 a.m., 398 AlderH.

WED- Environmental Hort Major Subcommittee, 1-3 p.m., 398 AlderH.

English Afternoon Tea, 1st Wednesday of the month, Cherrywood Restaurant invites members of our department to join them for this debut. Reservations 625-2793, Margaret.

THR- Hort 8066 - Discussion of Prelim Question with Drs. Galatowitsch, Hoover & Luby, 4:05 p.m., 394 AlderH.

DIAL U.....(Insect and Plant Information) Clinic needs a part-time horticulturist to answer phones/help with home garden, lawn & landscape questions. Grad student or advanced undergrad - hours flexible. See Deb Brown, 158 Alderman, 624-7491.

HAPPY BIRTHDAY TO YOU.....

Paul Li
James Andrew
Elizabeth Zimmerman
Paul Bucciaglia
Zigang Cheng
Mary Henry
Jim Lutz
Robert Quene

May 4
May 20
May 3
May 3
May 8
May 30
May 20
May 20



Cake and coffee will be served for these birthday kids on April 26 at 9:30 a.m., room 394 Alderman. See Evonne to volunteer to bring goodies for this monthly event.

1996-97 FULBRIGHT GRANTS....for graduate study abroad. Information meeting are scheduled for Tuesday, May 23 at 2:30 p.m., Wednesday, May 24 at 10:15 a.m., in 303 Johnston Hall. Call the Fellowship Office at 625-7579 to attend meeting. Start planning now as September 22 is the campus application deadline.

DEMOGRAPHIC INFORMATION.... will be arrive within the next two weeks. Please verify the data for the Student/Staff Directory and return to Laura Kalisch ASAP.

IN PRAISE OF THE AMERICAN GARDEN...A Horticultural Conference, June 23, 24, & 25, Mount Holyoke College

Greenhouse News
Roger Meissner

IRRIGATION....the water will be turned on to the research field plots on Monday, May 1st.

WHITEWASH.....with warmer temps predicted, the higher greenhouse temps will follow. I will be applying whitewash to greenhouse section late in the week of May 1st and during the 2nd week of May. If you **DO NOT** want whitewash applied to your greenhouse section this soon, please e-mail or voice mail me (m-meiss003@maroon.tc.umn.edu).

PESTICIDE OF THE WEEK....Fluralinate (Mavrik), class:pyrethroid. Mavrik is an insecticide/miticide for control of aphids, thrips, spidermites. Mavrik acts primarily as a contact poison by disrupting the central and peripheral nervous system of the insects. It has a caution label and a R.E.I. of 12 hours.

SAFETY TIP OF THE WEEK....gloves made of appropriate material are required to protect the hands and arms from thermal burns, cuts, or chemical exposure that may result in absorption through the skin or reaction on the surface of the skin. Gloves are also required when working with particularly hazardous substances where possible transfer from hand to mouth must be avoided. Thus gloves are required for work involving pure or concentrated solutions of select carcinogens, reproductive toxins, substances which have a high degree of acute toxicity, strong acids and bases, and any substance on the OSHA PEL list carrying a "skin" notation.

TWIG BENDER

Volume 13, #17, 5-5-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for May 7-13, 1995

May 1995						
S	M	T	W	T	F	S
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<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation. Lobby.

HORT FACULTY MEETINGS May 5 & 10th, 1-3 pm, 394 AlderH.

MAY 11....BRATS & BBQ, **Ascher's Famous Wisconsin Brats & BBQ with Arthur Bryant's Sauce**, Thursday, 11:45-1:00, Hort Headhouse. Bring a potluck item and \$1.00 donation. Persons not bringing a potluck item will be charged \$4.00. Bring your own beverage. Faculty, students, staff are all invited.

MAY 12....AGRI-GENDA 21: The Future of Agriculture in the Context of GATT and the Biodiversity Convention, Patrick Roy Mooney, Rural Advancement Foundation International (RAFI), Friday, 2:30-4:00 p.m., 335 Borlaug Hall. This event is organized by the International Agriculture Group, and is funded in part by the Office of International Agricultural Programs, the Department of Soil, Water, & Climate, the Department of Plant Pathology, and a MSA Diversity Event Fund Grant.

CORRECTION....cake and coffee will be served for May birthdays on May 26 (not April 26) at 9:30 a.m., room 394 Alderman. See Evonne to volunteer to bring goodies for this monthly event.

POSTPONED.....St. Paul Campus Retirement Lunch FROM May 9 TO JUNE 15 at the Earle Brown Center. Cost if \$6.00 prepaid, or \$7.00 at the door. See Laura Kalisch before noon Monday, June 12.

OBITUARIES.....Charles R. Burnham, 91, research scientist and professor at the University of Minnesota and founder of the American Chestnut Foundation, died April 19 at Roseville Good Samaritan Center. A memorial service will be held from 3-5 p.m., May 20 in the Terrace Room at the St. Paul Student Union. Memorials to the Burnham Scholarship for Research by Pre-College Students or the American Chestnut Foundation are suggested.

NEW PERSON....(not really) **Troy Carson**....the newest Junior Scientist working with Don White. Troy graduated from here in 1993 and has been Superintendent at Buffalo Heights Golf Course. He is married to Sara who is a special education teacher (presently looking for employment. Stop and visit Troy in room 455 (phone # 4-4907).

FALL 1995 CLASS SCHEDULE DISTRIBUTION....all continuing undergraduate and graduate students will be expected to go to a bookstore for their schedules. Department are only distributing copies for faculty/staff and new students.

DEPARTMENT GARDEN PLOTS....are ready for planting. If you did not receive a notice of this last week, please inform Daniel Warnock. If you have not paid for your plot, please do not begin gardening until you do so. Thanks.....Daniel Warnock.

SPARE A FEW HOURS.....to help plant the 12 **Baskets Garden Plot** on Friday, May 5th at 4:30 p.m. Produce benefits needs folks in the Twin Cities area. See Paul Buccigliola if you have further questions.

GREENHOUSE NEWS

Roger Meissner

PESTICIDE OF THE WEEK....Acephate (PT1300, ORTHENE 75S). Acephate is a systemic insecticide effective against a wide range of chewing and sucking pests. It is an Organophosphate and has a caution label and a R.E.I. of 24 hours.

LOOKING AHEAD

MAY 15.....Early Fall Quarter Registration begins.

MAY 16.....GSC, 10:30 a.m.

MAY 17....1995 Life Sciences Undergraduate Research Symposium, sponsored by CBS Honors Program, Ecology Bldg Foyer, Oral Presentations: 1:30-2:00, Poster Session: 2:00-4:00. Call 624-9717 for more information.

MAY 18,19,20.....Hort Club Spring Plant Sale, 9-6, Tent outside the St. Paul Student Center. Come shop for annuals, perennials, hanging baskets, herbs, vegetables, azaleas, plum and apple trees.

MAROON & GOLD CASUAL FRIDAYS ALWAYS



TWIG BENDER

Volume 13, #19, 5-19-95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for May 21-27, 1995

May 1995						
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<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>
28	29	30	31			

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation. Lobby.

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

TUE- Planting Day! Wear your bibs!

THR- Hort 8066, Research Proposal: Wetlands Education, Diane Witte, 4:05 p.m., 394 AlderH.

FRI- Celebration of the May birthdays. Faculty, staff, students are welcome to come have coffee and enjoy treats at 9:30 a.m., 394 AlderH.

Paul Li
James Andrew
Elizabeth Zimmerman
Paul Bucciaglia
Zigang Cheng
Mary Henry
Jim Lutz
Robert Quene

May 4
May 20
May 3
May 3
May 8
May 30
May 20
May 20



5TH ANNUAL WIDMER GOLF OUTING.. Mon, July 24th at the Daytona Golf Course, Dayton, MN. This shot gun start event assists with the funding of the Widmer Research Fund, established with the U of M. Golf, lunch, and prizes. Call J.R. Johnson Supply 612-636-1330.

MR. GREEN JEANS.....departmental (*that's faculty, staff & students*) lamb roast on the farm (at John Erwin's farm in Lonsdale) on Sat. June 3, starting at 3pm!! Bring friends and family!! Kids' paradise: Horses, sheep, bunnies, puppies, kittens, goslings, peacock and many more will be there. Lamb and beverages (includes wine & beer) provided. We will make arrangements for carpooling. More info. and maps to follow. The Erwin/Strefeler Group.

ST. PAUL CAMPUS RETIREMENT LUNCH.....June 15 at the Earle Brown Center. Cost if \$6.00 prepaid, or \$7.00 at the door. See Laura Kalisch before noon Monday, June 12.

HELP NEEDED.....with the final planting of the **12 Baskets Garden Plot** on Saturday, May 20 at 9:00 a.m. Get outside to enjoy the sun and get your hands dirty (*that should be soiled*). Questions...see Ami Beaver or Gustavo Robleto.

RETIREMENT RECEPTION....for Dr. Signe Betsinger, Assistant Director of the Minnesota Agricultural Experiment Station, Thursday, June 1, 3:30-5:00 p.m., Atrium McNeal Hall. Mark your calendar now.

IN NEED OF HOUSING.....couple from the University of Kansas seeking housing while on a one-year sabbatical leave at the University of Minnesota. No children, prefer biking distance of St. Paul Campus. See Laura Kalisch in main Hort office for details.

CALL FOR PROPOSALS....for the 1995 Cray Research, Inc. University Research and Development Grant Program. All U of M faculty members are invited to apply. The deadline for receipt for proposals is June 30, 1995. Applications forms available from: Michael Olesen, Research Programs Administrator, 624-1356.

BOARD OF REGENTS....approved change in appointment from Assistant Professor to Associate Professor for Anne Hanchek and Mark Strefeler effective July 1, 1995. Congratulations!

EDITOR NOTE: Students.....if you are not, and would like to receive the twig bender electronically, please write down your e-mail address and put it in my mailbox...thanks evonne

over

GREENHOUSE NEWS

Roger Meissner

VEHICLE UPDATE.....the department just acquired a new USED vehicle. Vehicle #3167 is a 1988 Plymouth Voyager Van. The department now owns three vehicles:

- 1) 3471 Blue full size station wagon
- 2) 3721 1 tone blue dump truck
- 3) 3167 Brown mini van

These vehicles may be checked out for use in the greenhouse office. A mileage sheet located in each vehicle should be filled out completely after each use. Mileage rates are .33/mile for the station wagon and mini van and .75/mile for the dump truck. Each vehicle has come with a universal credit card that may be used at many gas stations and a black key used for gas on campus. Please report any problems you encounter with the use of any of these vehicles to me. Any questions, please call.

GREENHOUSE UPDATE.....cooling pads are now in operation. When the cooling pads are on the top ridge vents will be closed. Whitewash will be applied as soon as the outside temperature stays in the 70's....hopefully next week. Any questions regarding greenhouse temperature control please contact me. Thanks.

HORTICULTURE-RELATED JOBS AVAILABLE.....Community Gardening Intern, Gardening Intern, Inventory & Reservations Specialist, Community Organizing, Gardening & Planning Specialists. Contact the Minnesota State Horticultural Society for further information at 643-3601. Descriptions are also posted on Alderman Hall bulletin board in lobby.

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for June, 1995
Call 443-2460, extension 106 for information

- June 8 and June 29 New Member Reception Nights (5-8 pm)....guided walking tours for new members highlighting the display gardens. Tram rides feature the tree and plant collections along 3-mile drive. Reservations required. Contact the Membership Dept. weekdays at 443-2478.
- June 22 California Gardens with Director Peter J. Olin, 7-8 pm, Auditorium, information session on upcoming Arboretum-sponsored tour to California. Mr. Olin will present a lecture on *California Gardens, Redwoods and Wine Country*. No charge, no reservations.
- June 24 Orchid Lights Tropical Nights Benefit, 5-9 pm. A fun garden party experience for everyone to help benefit the Arboretum. Focus will be on the Learning Center and children's programs with flavor of the topics: Latin American sights and sounds in exceptional entertainment, a silent auction and memorable dining experience in a wonderfully unique garden setting. Call 443-2460 ext. 227 for more information.

Classes:

- June 7 Using Alpine Flowers in the Garden, 10-noon. \$15/20
- June 10 Successful Herb Gardening, 10-noon. \$15/20
- June 16 Choosing Trees & Shrubs for the Landscape, 9:30-noon. \$15/20
- June 21 Perennials for MN Gardens, 10-noon. \$15/20

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

Maroon & Gold Casual Fridays

GO GOPHERS

TWIG BENDER

Volume 13, #20, 5-26-95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for May 28 - June 3, 1995

May/June 1995						
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DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation. Lobby.

MON- University Holiday

TUE- GSC - 10:30 am, 398 AlderH.

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

Hort 8066, research proposal by Jose Vasquez CANCELLED

FRI- Thesis Defense Seminar, Genetics & physiology of flowering in selected *Poa annua* L. Paul Johnson, Ph.D. student of Don White, 9:00 a.m., 394 AlderH.

SAT- COAFES Graduation, 3:00 p.m., Northrup Auditorium, no invitation needed.

Departmental Picnic on the Farm, 3-8 p.m., John Erwin's Farm, potluck.....meat, bev and lots of fun provided.

DEMOGRAPHIC INFORMATION.... have been arriving....please verify the data for the Student/Staff Directory and return to Laura Kalisch ASAP.

LOST.....black Sony Walkman headset on Thursday afternoon. If you have any information as to its whereabouts, please let Steve Lund know (lab phone #4-2715, room 335 Alderman).

CONGRATULATIONS.....Gerard Engelen-Eigles successfully completed his Masters on May 3.

BI-WEEKLY EMPLOYEE SUPERVISORS.....please alert your employees that a new time card format takes effect on June 12. New time cards are PREDATED, and must be picked up in advance. Old time cards will no longer be accepted after the mid-June change. Please talk to Patrice if you have any questions. Thank you.

PRECISION AGRICULTURE CONFERENCE.....June 9, SPSC Theatre, Precision farming: agriculture in the technology and information age. H. H. Cheng, Moderator.

HAVE A GOOD/SAFE HOLIDAY WEEKEND

TWIG BENDER

Volume 13, #21, 6/2/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for June 5-9, 1995

June 1995						
S	M	T	W	T	F	S
				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation. Lobby.

TUE- 2:15 GLAE Meeting

THR- 10:00-12:00 Greg Gingera Ph.D. Thesis Defense "Evaluation of Breeding Strategies to Improve Common Leaf Rust Resistance in Sweet Corn".

Congratulations to **Deb Brown**, she was awarded the 1995 Garden Communicator's Award. The Garden Communicator's Award is granted annually to the individual who has made outstanding contributions to the public understanding and appreciation for the use of environmental plants and landscape beautification through popular journalism. These contributions can be on a national or regional level, but must be popular in nature (via newspaper; magazines; television; radio; books; etc.). Reaching an audience of amateurs, the communication should cover a wide variety of gardening subjects.

RE: Fall 1995 Course Guide Questionnaires - Please extend my thanks to everyone who was involved in this special collaborative effort. And a particular thank you to those who responded to my April panic note when it looked like our participation was going to be much less - Laurie Hayes.

Position announcement: The Acting Vice President of Research and Acting Dean of the Graduate School invites applications and nominations for the position of Associate Dean of the Graduate School. For more information please see the full Position Description on the bulletin board in the front office.

DEMOGRAPHIC INFORMATION.... have been arriving....please verify the data for the Student/Staff Directory and return to Laura Kalisch ASAP.

PRECISION AGRICULTURE CONFERENCE.....June 9, SPSC Theatre, Precision farming: agriculture in the technology and information age, H. H. Cheng, Moderator.

June Birthdays:

Tami VanGaal	June 2
Emily Hoover	June 5
Jim Luby	June 5
Duane Preston	June 7
Ahmed El Shiekh	June 10
Vince Fritz	June 16
Sue Fuerstenburg	June 16
Mark Brenner	June 19
Wenping Chen	June 19
Sarah Ohmann	June 22
Brad Pedersen	June 23
Judy Day	June 26

Departmental Picnic on the Farm, 3-8 p.m., John Erwin's Farm, potluck.....meat, beverages and lots of fun provided.

TWIG BENDER

Volume 13, #22, 6/16/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for June 18-24, 1995

June 1995						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
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<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>
25	26	27	28	29	30	

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation. Lobby.

SUN- Channel 6 MCN, 9 am & 9 pm, Crabapples: Which crabapples are best for Minnesota? A discussion of disease resistant, hardy crabapples for our climate.

TUE- FCC Mtg, 10:00 a.m. - 11:30 a.m., 398 AlderH.

WED- First Day of Summer

FRI- Celebration of the June birthdays. Faculty, staff, students are welcome to come have coffee and enjoy treats at 9:30 a.m., 394 AlderH. Anyone who can volunteer to bring treats, please contact Evonne (*otherwise the parties off*). Thanks!

Tami VanGaal	June 2
Emily Hoover	June 5
Jim Luby	June 5
Duane Preston	June 7
Ahmed El Shiekh	June 10
Vince Fritz	June 16
Sue Fuerstenburg	June 16
Mark Brenner	June 19
Wenping Chen	June 19
Sarah Ohmann	June 22
Brad Pedersen	June 23
Judy Day	June 26



VACATIONS and/or OUT OF OFFICE.....

Roger Meissner June 16-June 23, June 29-July 9
(for assistance in greenhouse/dept vehicles, see Martha or Dean).
Angie Klidzejs June 13-21
Esther Thorpe June 19-23
Kathy Lloyd June 22, 23, 26, 27
Martha Piechowski June 20

OUTSTANDING NEW GRADUATE STUDENT AWARD.....has been awarded to **Ami Beaver**. Congratulations on your accomplishments!

DOCTORAL DEGREES AWARDED....to Drs. Paul Johnson and Greg Gingera. Please extend your congratulations to Greg & Paul as they move into their new careers.

NOTE FROM GREG GINGERA....."I would like to thank all of the faculty, staff and graduate students in Horticulture for making this a great place to work for about four and a half years. Your kindness and hospitality were very much appreciated. I want to especially thank Roger Meissner for finding greenhouse space for my nasty corn plants and Phil Bird for keeping my research fields safe from a variety of vertebrate pests. We will be relocating to Johnston, Iowa (suburb of Des Moines) by the end of June. I will begin a one-year internship in the Information Management Systems Research Group at Pioneer Hi-Bred. A good portion of my time will be spent providing PC support for plant breeders and developing statistical applications. My other responsibilities will include winning chili contests and fish breeding. Gloria and I will look back on the department and all of the people we've associated with fondly (after all, there aren't a lot of places that appreciate Canadians, eh). Although we are continuing to venture southward, we will remain ever loyal to the queen, the commonwealth and the mighty maple leaf".

CELEBRATE CENTENNIAL.....Northwest Experiment Station will kick off activities beginning with Crops and Soils Day on Wednesday, July 19. U of M President, Nils Hasselmo, will speak at a noon luncheon. There will be tours of the agronomy, soils, plant pathology and sugarbeet research plots, booths, clinics, and a research range dedication. Featured will be wheat, barley & oat varieties release by the U of M over the past 100 years. FFI phone 218-281-8602.

CONGRATULATIONS

CAFES ANNOUNCES CONFERRING OF DEGREES.....to the following students who have applied to graduate from Fall Quarter, 1994 through Fall Quarter 1995. (Degrees will be granted when all graduation requirements have been met. These students are advised in our department in three major areas:

Agricultural Industries and Marketing Major: Patrick Hunt

Animal and Plant Systems Major: Jamel Anderson, Carla Anderson (*Deans' List & High Distinction Candidate*), Daniel Augdahl, Lance Barthel, Sara Batterman, Virginia Coyle, Troy Elam, Scott Endres (*Distinction*), Kristi Hausladen, Jason Jacobs, Eileen Johnson, Amy Lagermaier, Brian Lawrence, David Lewis (*Dean's List*), Thomas Marron, Edward Morin, Kenneth Olson, James Peloquin, Faye Propsom (*Distinction Candidate*), Laurie Robinson-Hipple (*Dean's List*), Mark Simeon.

Science in Agriculture: Joseph Freeman, Christine Schraut

CONGRATULATIONS

TWIG BENDER

Volume 13, #23, 6/23/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for June 25-30, 1995

June 1995						
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<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation, Alderman Lobby.

MON- Ice Cream Party for Paul Johnson at 12:00 noon, Alderman Foyer.

TUE- Please join the Department and COAFES Administration to honor Deborah Brown winner of 1995 Professional and Academic Staff Award and Emily Hoover winner of 1995 Horace T Morse Award, 3:30-5:00 p.m., Alderman Lobby.

WED- U Card team will be at the Northstar Ballroom to issue new University ID cards from 8-5. It takes approx 10-15 minutes, be sure to bring a photo ID (driver's license or passport). You may also apply for an AT&T and TCF banking option with reduced rates.

THR- International Agricultural Programs invitation to a retirement reception in honor of Joan Darrell, to recognize her 26 years at the University of Minnesota (Horticulture Dept 1981-84), 2-4 pm, Atrium of VoTech Ed Bldg.

FRI- PhD Defense Seminar, Chemical root signaling during water deficits in Phaseolus acutifolius and P. vulgaris, Maria Janssen, 9:00 a.m., 394 AlderH.

KUDOS.....to Florian Lauer and Dave Davis, each received a Distinguished Friend of the Department Award at the Plant Pathology Department's annual awards ceremony during spring quarter.

NOTE FROM PAUL JOHNSON....."I'd like to thank all of you - the graduate students, faculty, and staff of the Horticulture department - for providing a great place to live, learn, and work during my degree programs here! I so much appreciate all of the help and guidance given to me. Patty and I will be moving to Lincoln, Nebraska at the end of the month where I will be working at the University of Nebraska as project coordinator of the buffalograss breeding project. That is in the horticulture department there. I'm also looking forward to exploring the Great Plains again. Patty will most likely be working in the Lincoln public schools and plans on taking classes towards a physical therapy degree. Both of us are looking forward to Cornhusker football games and will be seeking out new bicycling routes to ride on, and yes, there are hills in Nebraska!"

COAFES PICNIC DATE ANNOUNCED.....July 22, the first college-wide picnic to enjoy and spend a little time together. Family and significant others are welcome, William O'Brien State Park, Marine on the St. Croix, noon to 5 pm. Details, map available soon.

BIOMED PHOTO SERVICES....the current pick-up and delivery spot for Biomedical Graphic Communications' Photo Service at 4 BioSci will be closing permanently on July 1. To facilitate this closing, there will be an expansion of current delivery service beginning June 1. To obtain this new service, pick up a copy of an Order Request Form (round table in 305 AlderH) and leave film for pick-up. Biomed will return the projects upon completion. Please call Biomed Services (626-3939) if you have questions regarding this new service.

FALL INTERNSHIPS AVAILABLE AT LONGWOOD GARDENS.....one of the world's premier display gardens with century-old trees, fountain gardens, natural areas and nearly 4 acres of greenhouses and conservatories within 1050 acres of property. Accessions total 11,000 hardy and tropical plants. Internships begin in September and are available for a minimum of three months in arboriculture, greenhouse production, groundskeeping, performing arts. Positions filled on a "first come" basis. Contact: Longwood Gardens, Student Programs Office, P. O. Box 501, Kennett Square, PA 19348-0501 (610-388-1000 ext. 524. Also a wonderful opportunity exists for recently graduated individuals to intern for up to 12 months in 1996. Information and application will be available July 15.

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for July, 1995
Call 443-2460, extension 106 for information

July 1 Arboretum Prairie Tours, 11:00 a.m.
July 16 " " " , 1:00 p.m., meet at Arboretum
Prairie for free guided tour.

July 2,9,16, Sense-A-Tional Sundays, 1-3 pm, interactive stations
23 and 30 in the new Sensory Garden with various plants
through touch, taste, smell and sound.

July 13 Our Environmental Heritage: Prairie Management
Symposium, 8:15 am to 4:15 pm. Arboretum. For
managers of prairie areas, parks, public gardens,
nature centers, and for landscape architects, prairie
enthusiasts and other educators and professionals.
\$30 members; \$40 non-members. Call 443-2460 ext.
566 to have registration form sent to you.

July 13 Carver/Scott County Extension 4-H Day, 5-9 pm, the
public can view the ongoing demonstrations and
explore community resources.

Classes:

July 8 Shade Gardening, 10-noon, \$15/20

July 18 Fresh Flower Arrangements, 10-noon, \$15/20

July 20 Fun with Fungi, 6-9 pm, \$15/20

July 29 Attracting wildlife to your yard, 10-noon. \$15/20

July 29 Native Minnesota Orchids: Identification and
Appreciation, 1-3 pm, \$15/20

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

Maroon & Gold Casual Fridays

GO GOPHERS

TWIG BENDER

Volume 13, #24, 6/30/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for July 2-8, 1995

July 1995						
S	M	T	W	T	F	S
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<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation, Alderman Lobby.

SUN- Minnesota Gardening, Channel 6 MCN, 9am & 9pm, Butterfly Gardening: What to plant to attract butterflies and butterfly larvae in your garden.

MON- Hort Office will be closed.

TUE- University Holiday - Independence Day

MSHS.....announces staff changes.....Rick Bonlender, Coordinator for the Minnesota State Horticultural Society's Minnesota Green community is leaving to take a new position with a Twin Cities corporation. There will be an Open House held in Rick's honor on Thursday, July 20 from 4-6 pm at the Center for Northern Gardening, 1855 Prior Avenue North, Falcon Heights. All are invited to attend to wish him well in his new venture.

MSHS.....announces job opening....an enthusiastic person to fill the Community Greening Coordinator position (32-40 hr/week) from July 1995 through June 1997. Salary range \$18,000-\$26,000 per year @ full time calculation. Deadline July 17. Send resume to Dorothy B. Johnson, Executive Director, MSHS, 1755 Prior Avenue North, Falcon Heights, MN 55113. (See JOB POSTING) on bulletin board, Alderman Lobby.

12 BASKETS....the departments efforts to supply produce for 12 Baskets/2nd Harvest are in full swing. We're keeping a half step in front of the bugs and have harvested about 150 heads of lettuce; thanks to Dr. Davis for supplying the seedlings and mature plants left over from class. Thanks also to volunteer planters, weeders, harvesters, and waterers! If your project or home garden will generate produce (preferably untreated with pesticides or only label approved pesticides) that you do not need, please let me know. Harvesting volunteers can be arranged (coerced?). All food donations benefit the needy in the metro area. Departmental volunteers are needed through the growing season. If you would like to volunteer, please drop me a note or swing by 335 Alderman.....Paul Bucciglia.

It seemed that every time we were beginning to form up into teams, we would be reorganized. I was to learn later in life that we tend to meet any new situation by reorganizing; and a wonderful method it can be for creating the illusion of progress while producing confusion, inefficiency and demoralization. Petronius Arbiter 210 B.C.

HAPPY BIRTHDAY TO YOU.....

Dave Davis

July 6

Mary Meyer

July 6

Lynnette Brudvig

July 7

Julia McGrew

July 13

Dick Wenkel

July 20

Kathy Lloyd

July 25



Cake and lemonade will be served in honor of the July birthdays on July 21 at 9:30 a.m., 394 AlderH. Sign up to bring cake (treats) in the back hallway (bulletin board). Thanks.

TWIG BENDER

Volume 13, #25, 7/7/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for July 9-15, 1995

July 1995						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation, Alderman Lobby.

MON- Hort Faculty Meeting, 1-3 pm, 394 AlderH.

WED- Department Clean-Up Day....dress casual and plan to dust, polish, empty old files filled with stuff you'll never use.

15TH INTERNATIONAL CONFERENCE ON PLANT GROWTH SUBSTANCES July 14-18, 1995, Hyatt Regency, downtown Minneapolis, held in conjunction with the annual meeting of the PLANT GROWTH REGULATOR SOCIETY OF AMERICA.... July 18-20, 1995. Organizing Committee of IPGSA: Gary Gardner & Bernard O. Phinney, Co-Chairs; Mark Brenner, Ron Coolbaught, Mary Helen Goldsmith, Wes Hackett, Ernest Jaworski, Russell L. Jones, Hans Kende, Terri Lomax, Neil Olszewski, Irwin Rubenstein, Kay Walker-Simmons, Jan Zeevaart, members. Official Travel Agency - Daisy Travel.

GREAT PLAINS REGIONAL MEETING.....American Association of Botanical Gardens and Arboreta, hosted by The Nebraska Statewide Arboretum, September 21-23, 1995, Our Place on the Plains, exploring the role of public gardens in Great Plains horticulture. Contact number for registration/information 402-472-2971.

CONGRATULATIONS.....**Emily Hoover** received the ASHS Outstanding Undergraduate Educator Award. She will be honored at the awards ceremony during the ASHA meeting in Montreal in August.

RETIREMENT CELEBRATIONS ANNOUNCED.....**Dave Davis** and **Florian Lauer** on Saturday, August 26 at 5:30-9:00 p.m., Trout Air Restaurant, Forest Lake. Tickets available from Martha Piechowski in 305 AlderH. Open House in honor of **Larry Smith**, after 36 years of service, Thursday, July 27, 3-5 pm, 306 BorH.

WORK-STUDY COMPLIANCE AGREEMENTS....beginning July 1, all work-study postings at Student Employment must be accompanied by a Work Study Compliance Agreement, signed by student's supervisor. If you will be posting a work-study position, please see me.....Patrice Johnson (305 AlderH).

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 13, #26, 7/21/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for July 23-29, 1995

July 1995						
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9	10	11	12	13	14	15
16	17	18	19	20	21	22
<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>
30	31					

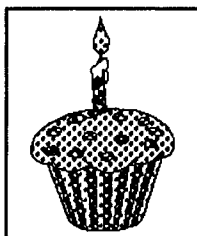
DAILY COFFEE HOUR, 10 a.m. Bring your favorite beverage and engage in conversation, Alderman Lobby.

ANNOUNCING A PARTY.....in honor of Peter Velguth and his very long and meritorious service to this department, and to provide a warm send off as he and wife Susan head for the lovely city of Madison, Wisconsin.....Thursday, July 27, 4:30 p.m., Alderman Lobby. Coffee, cake and ice cream will be served. Contact Sue Wiegrefe at 5-4292 is you would like to help out with food or funding.

AUGUST BIRTHDAYS CELEBRATION.....will be Wednesday, August 16. Faculty, staff, students are welcome to come have coffee and enjoy treats at 9:30 a.m., Alderman Lobby. Anyone who can volunteer to bring treats, please contact Evonne. Thanks!

Gary Gardner
Paul Richter
John Erwin
Peter Velguth
Chen Yi Hung
Laura Kalisch
Martha Piechowski
Faye Propsom
Lori Marco

August 1
August 6
August 8
August 8
August 15
August 19
August 22
August 24
August 30



DIAL U REMINDER.....Dial U takes calls from the public at 1-900-988-0500 for questions relating to urban horticulture, insects (indoors & out), plants and plant diseases and wildlife (such as bats, snakes, mice, etc.). There is a flat \$2.99 fee that is automatically billed to the phone from which the call is made. Callers who cannot dial the 1-900 number may access Dial U's office at 624-5353 and arrange alternative billing for the \$2.99 fee. Thanks, Cindy Herring.

FAREWELL....*My wife, Susan, and I are off to Madison, Wisconsin on Sunday July 30 with our cats in tow. I will be sorry to leave my many friends in Minnesota, and will take with me fond memories of great times and fun gardening. I want to thank the faculty and staff for all their wonderful support during my time here. Susan and I look forward to new challenges with our jobs and fun adventures with our new house and the gardens we want to build—including a nice site for a rock garden. As for our jobs, Susan is joining the faculty of the University of Wisconsin, Madison in the Department of Communicative Disorders. I will join the Department of Horticulture as "Scientist" for two years, where I will continue my research on applications of nuclear DNA content measurement to plant breeding and horticulture. To all my many friends in horticulture, please look us up when you come through Madison"! Peter Velguth.

E-MAIL MESSAGE FROM GREG GINGERA.....*we arrived safe and sound and are getting near the end of setting up our apartment. Our address (for anyone who is coming through and needs a place to camp for the night, a cup of coffee or even something a little stronger) is: Gloria and Greg Gingera, 6212 Meadow Crest Drive #206, Johnston, IA 50131, Phone 515-251-7642, e-mail: gingeragr@phibred.com.* *(This should get you lots of mail, Greg)*

NEW LOCATIONS.....Units that have moved into 319 15th Ave. S.E., (newly remodeled Shop's Bldg across from the Dinkydome on East Bank) include Central Administration and Coordinate Campus Service Team, Employee Benefits, Employee Relations, Employment (staffing), Graduate Assistant Office, Human Resources Information Services. Academic Health Center Service Team has moved to 7-101 Health Sciences Unit F, Arts, Sciences, & Engineering Service Team to 12 Morrill Hall, Professional Studies Service Team to 201 Coffey Hall.

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for August, 1995
Call 443-2460, extension 106 for information

- August 1 University of Minnesota Alumni Band, 7-8:15 pm, Margot Picnic Shelters. Pack the family and picnic supper and come to listen to this great band play many tunes including U of M favorites.
- August 6, 13, 20 & 27 Sense-A-Tional Sundays, 1-3 pm, interactive stations in the new Sensory Garden with various plants through touch, taste, smell and sound.
- August 5 & 20 Arboretum Prairie Tours, (8/5 @ 11 am & 8/20 @ 1 pm), meet at Arboretum prairie for free guided tour.
- August 5 & 6 Children's Harvest Fair, 12 noon-3 pm, the public is invited to share in the delights of the successful completion of the summer children's garden as they proudly display their harvest and participate in related fun games and activities. At the Arboretum's Learning Center.
- August 12 Minnesota Prairie Day, 8:30-4:00. Program collaboration with the Arboretum and The Nature Conservancy. Presentation on prairie biology and fire management with tours to the Arboretum's restored prairie and a bus trip the Conservancy's Schaefer Prairie. Bag lunch included. \$22 for Arboretum and Conservancy members; \$28 for others. FMI & registration, call 331-0759
- August 15 Membership Ice Cream Social. Members can enjoy a stroll through the gardens, cool treats and entertainment. Members' guests receive \$5 off the cost of new memberships that evening. Reservations required. Call 443-2460, ext 566.
- August 17, 18 & 19 Eleventh Annual Herb Symposium, featuring local and national speakers, authors, chefs and teachers. Cooking and decorating demonstrations, workshops. Registration fees required.

August 20 California Gardens with Director Peter J. Olin, 1:30-2:30 pm, Auditorium. Information session on upcoming Arboretum-sponsored tour to California. Mr. Olin will present a lecture on *California Gardens, Redwoods and the Wine Country*. No additional charge and no reservations are required.

Classes:

- August 3 The Many Wonders of Birds, 6:30-9:00 pm, \$15/20
- August 5 Hostas for the Garden, 10-noon, \$15/20
- August 8 Herbal Breads and Spreads, 10-noon, \$20/30
- August 9 Working with Grapevine in Crafts, 10-noon, \$25/35
- August 24,31, Sept 7,14,21 & Oct 5 Creating a Landscape Plan for your Home, 6:30-8:30 pm, \$54/80
- August 26 Breakfast with the Birds: Birds of Prey, 7-9:30 am, \$25/35
- August 26 Designing your Entryway, 10-noon, \$15/20

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

Maroon & Gold Casual Fridays

GO GOPHERS

CALENDAR/NEWS for July 31 - August 5, 1995

July/August 1995						
S	M	T	W	T	F	S
<u>30</u>	<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
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13	14	15	16	17	18	19
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27	28	29	30	31		

MON- COAFES Dean & AES Associate Director Candidate Seminar, Leadership and Vision for the College of Agricultural, Food, and Environmental Sciences in the Next Decade, Michael Martin, 9-10:15 am, 335 BorH.

Farewell get-together for Lynnette Brudvig, 10:30 am, Alderman Lobby. This is Lynnette's last day in the department. Please join us for treats/coffee and wish her well in her new endeavors.

TUE- Students, staff, and faculty are needed for the human 'M' for the cover of the 1995-96 Student/Staff Directory. If you're among the first 350 people to volunteer, they'll save your space and feed us. Williams Arena, 9:00 am. Call 4-4106. Wear dark slacks or jeans, dark shoes or dark socks, and your favorite U of M shirt.

WED- COAFES Dean & AES Associate Director Candidate Seminar, Leadership and Vision for the College of Agricultural, Food, and Environmental Sciences in the Next Decade, Elton Aberle, 9-10:15 am, 335 BorH.

FRI- COAFES Dean & AES Associate Director Candidate Seminar, Leadership and Vision for the College of Agricultural, Food, and Environmental Sciences in the Next Decade, David Chicoine, 9-10:15 am, 335 BorH.

Discussion on the National Research Initiative (NRI) lead by Jim Cook, a plant pathologist, 10:30 am, 491 BorH.

JOBTRAK.....is a national database for recruiting college students and alumni for full-time and part-time, professional and non-professional job vacancies. The company has formed partnerships with over 300 college career centers nationwide and is used by over 150,000 employers. gopher to: gopher.jobtrak.com

CAREERS.....the Internet Employment Network is sponsored by the National Alumni Placement Association. The gopher is updated bi-weekly with professional and entry-level positions in both technical fields and the liberal arts. Alumni and graduating seniors are invited to participate in our Free Resume Referral Service. gopher to: gopher.careers.com 9010

REMINDER.....to all users of the dryers in Crop Service & Seedhouse: check the samples that you already have in these dryers and remove the ones that are past the **SEVEN DAY LIMIT**. If not, I will contact your project once, then if they have not been removed, they will be taken out.... Mike McClellan (4-5395).

PHONEBOOK DELIVERY.....if you turned in your old phonebook last week, please stop by 305 Alderman and get your 95-96 St. Paul phonebooks. Remember to check your name off indicating you received your books. If you missed this phonebook delivery/recycling day totally, there are various locations where phonebooks will be available until October 27. Call 5-8084 or check the bulletin board across from faculty mailboxes.

DONATIONS.....got more zucchini than you know what to do with? Remember you can donate any garden excess to the 12 Baskets / Second Harvest program to be distributed to people in need in the Twin Cities. Drop off donations in the Headhouse cooler 198C (north end of the building) and then be sure to notify me. Thanks, Paul Buccigaglia, 4-2715.

HAVE A GOOD WEEKEND

TWIG BENDER

Volume 13, #28, 8/04/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for August 6-12

August 1995						
S	M	T	W	T	F	S
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20	21	22	23	24	25	26
27	28	29	30	31		

MON- MES Dean & Director Candidate Seminar, Extension & Outreach in the 21st Century, Frank Fear, 3:00-4:30 pm, 335 BorH.

TUE- Corn Feed, 12 noon, Display Garden. \$2.00 includes hot dogs, lemonade, and all the corn you can eat (condiments supplied). Bring a veggie from your garden or a dessert to share.

WED- MES Dean & Director Candidate Seminar, Extension & Outreach in the 21st Century, Gail McClure, 3:00-4:30 pm, 110 Green Hall.

STATE FAIR TIME.....there are several places you can volunteer your time this year. University Relations is asking for volunteers to staff the booth located in the Education Building. Call Mike Tracy at 624-4160. The COAFES is inviting staff displays/research projects in the 4-H Building on September 1 or 2. If anyone in Horticulture is willing to volunteer, please contact Dani O'Reilly, 624-3235. Memo to departments was dated July 27 and deadline to respond was July 31 but call anyway.

DISPLAY GARDEN.....is beautiful and some folks in the neighboring community have called in to the main office to express their appreciation of the beauty and asked that I convey their message to all the students and staff who have worked so hard on the garden.

INVITATION TO HORT....An invitation has been extended by Julius Wadekamper to tour the Borbeleta Gardens in Faribault. Julius is highly respected in his field of hybridizing lilies. Come see his many varieties of lilies, iris, peonies, hostas. The tour is set for August 30 at 3:00 pm. Take Hwy 35 and exit to Hwy 21, follow signs to Borbeleta Gardens. Address is 15980 Canby Avenue, phone 507-334-2807.

DEPARTMENTAL GARDENERS....may I commend everyone on the hard work done in keeping the garden area looking spiffy this year. Most every plot looks fantastic. As summer moves toward fall, many of us are tempted to let our gardening maintenance become less important. I ask that this season we all strive to keep our plots looking good until the first frost. I have had several people come up to me this year while I was in my plot and comment on the gardening project. All the comments have been positive and most people support the project's purpose. Have any other gardeners gotten feedback (positive or negative) from the public? If so, will you let me know what the public's general feeling is and how we can improve the garden next year? Thanks. One final item. Several people are still parking on the grass border near the garden plots. There is a parking lot southwest of the hedge row. Please park in this area only. Thank you. Daniel Warnock.

SORT OF MAKES YOU GO "hmmmmm." W. E. Rees of the University of British Columbia, in the abstract of his presentation titled the Urban Ecosystem: Human Dimensions, said "Considering the material, energy, and information flows required to sustain both human and industrial metabolism, cities can be interpreted as nodes of consumption in a diffuse human-dominated ecosystem that extends far beyond the boundaries of the so-called 'built environment'. From this perspective, cities per se are the human equivalent of cattle feedlots." JVC.

ATTENTION.....if you happen to spot a wandering case of 5 ml pipette tips or mistakenly picked up a box from the mailbox area the last week of July, please let Chris Gran know (Room 239). Thank you.

TWIG BENDER

Volume 13, #29, 8/11/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for August 13-19

August 1995						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>
20	21	22	23	24	25	26
27	28	29	30	31		

MON- MES Dean & Director Candidate Seminar, Extension & Outreach in the 21st Century, Peter Bloome, 3:00-4:30 pm, 335 BorH.

TUE- Hort Faculty Meeting, 1-3 pm, 394 AlderH.

WED- Coffee hour for August birthdays, 9:30 am, Lobby. If there are no volunteers to bring treats, this will be canceled.

THR- MES Dean & Director Candidate Seminar, Extension & Outreach in the 21st Century, Katherine Fennelly, 3:00-4:30 pm, 110 Green Hall.

Gary Gardner
Paul Richter
John Erwin
Peter Velguth
Bethany Davidson
Chen Yi Hung
Laura Kalisch
Martha Piechowski
Faye Propsom
Lori Marco

August 1
August 6
August 8
August 8
August 11
August 15
August 19
August 22
August 24
August 30



FALL GRADUATE ORIENTATION....brochures will be mailed to all accepted graduate students who are intending to attend the 'U' this fall. This 3-day orientation (September 18-20) provides graduate students with an opportunity to talk with representatives from various offices such as Financial Aid, Graduate Assistant Office, Boynton Health Service, etc. Graduation requirements and the difficult transition graduate students may undergo will also be discussed.

UPDATE.....on Horticulture Softball (Pigball). For the throng of fans of Softball played the old-fashioned way, here's an update on the never-ending saga that is Class C IM sports. After a disappointing early elimination from the Spring playoffs, the Horticulture softball team has continued its quest for sports glory. Although the summer season began with a shaky 0-2 start, the team has recently flourished by means of superior team play and questionable management. Just in time for the summer playoffs, the 'DitchPigs' have put a 4-1 streak into the record books. The highlight of the season, which clinched a playoff appearance for the Mighty Pigs this past Tuesday evening, was a 12-0 shutout thrown by the whily veteran and team's spiritual leader Al Smith. Summer playoffs begin August 15th. Go Pigs!!! Chris Gran, reporter.

TUITION INFO.....this is a reminder that graduate students of color with a minimum undergraduate GPA of 3.0 are eligible to pay resident tuition.

RETIREMENT PARTY.....for Dave Davis and Florian Lauer is only two weeks away (August 26 - 5:30 - 9:00 pm) at Trout Air, 14536 W. Freeway Drive, Forest Lake. Please make your reservation NOW with Martha Piechowski in the main office as the deadline is fast approaching (August 18).

HAVE A SWEATY WEEKEND

TWIG BENDER

Volume 13, #30, 8/18/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for August 20-26

August 1995						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>
27	28	29	30	31		

AUG 24 MES Dean & Director Candidate Seminar, Extension & Outreach in the 21st Century, Orrin Smith, 3-4:30 pm, 110 Green Hall.

RETIREMENT PARTY.....for Dave Davis and Florian Lauer is August 26 from 5:30 - 9:00 pm at Trout Air, 14536 W. Freeway Drive, Forest Lake. Kathy Lloyd will accept your reservation as Martha will be on vacation August 21-25.

CLOSED DOWN.....Twin Cities computer manufacturer, PC Express, closed its doors August 1. Purchasing Services is working with the attorney general's office to resolve any outstanding warranties and purchasing issues. U departments who bought equipment from PC Express should send a list of equipment with serial numbers, purchase order numbers, and dates of purchase to Kathy Bergquist in Purchasing Services. If you have any computer equipment from PC Express that is affected by this situation, please furnish the pertinent information to Angie Klidzejs in the accounting office.

DITCHPIG UPDATE.....The Horticulture softball team continued its quest for domination of class C sports with its Tuesday night victory. Good team play and hearty support from the growing legion of DitchPig fans led to a 14-6 runaway victory. Playoffs continue Sunday evening at 9:30 p.m., Golf Course fields near Gibbs. Go Pigs! Chris Gran, Reporting.

STATE FAIR TIME.....you will be able to access the St. Paul Campus on weekends via Cleveland and Folwell by showing your University I.D. Other parking lots changes listed in the Daily & posted by mailboxes.

GROWTH CHAMBER UPDATE.....1) Starting August 23, in preparation for the long waited for, Replacement of Growth Chamber Project, Dave, Roger and

a couple of energetic workers will be hauling old and unused equipment to Como Yard, for redispersal or scrapping. If anyone has anything getting in the way around the lab that they would like to have disappear, please haul it to the hallway outside room 201 AldH where it will be collected and whisked to The Yard (Como not Scotland). Speaking of Scotland, if I find Ken sitting on the hallway pile, I must have written permission from his lab leader to transport and dispose of same. Al could also drop 'Becca' a note, just in case she notices. Say Ken, want to help me move this stuff? 2) Shortly after this cleanup project is completed, the shop will start a production run of the ever popular, wood and screen autoclave trays. Due to the price of redwood I believe that this run will be fabricated using a cedar frame. The last run of trays ended up costing \$15.00 each. I think that with the change in wood species, that the price should be about the same, considering the price rise in hardware cloth and brass screws. I would like to get the materials together and start work August 22 or thereabouts. Please get your requests in now so that I may order the materials that I need. Please remember that this manufacturing run happens fairly infrequently...the last run was Summer, 1991. It would likely be a good idea to check with your lab people as to whether or not they use these trays, I have found there to be many more users than buyers...this is a heavily borrowed item, and as financial situations tighten, such borrowing may become difficult, if not downright dangerous. Don't miss this opportunity! Please place your order by August 22 !!!!!!! Depending on demands made by Growth Chamber Project, new trays should be available mid September, 1995. Dave Olson

LOOKING AHEAD.....Horticulture Day/Station Open House, Wednesday, August 30, North Central Experiment Station, 1861 East Hwy 169, Grand Rapids, MN. Everyone Welcome!

INVITATION TO TOUR BORBELETA GARDENS.....August 30 at 3 pm. Julius Wadekamper is a University of Minnesota graduate in Horticulture and is highly respected in his field of hybridizing lilies. He was also the subject of a one-page feature story in the Mpls Star Tribune Sunday paper a few weeks back. Come see his many varieties of lilies, iris, peonies, hostas. If you're interested in a possible carpool situation, sign up in 305 Alderman ASAP.

HAVE ANOTHER SWEATY WEEKEND

TWIG BENDER

Volume 13, #31, 8/25/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for August 27 - September 2

August 1995						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>	<u>Sept1</u>	<u>2</u>

DAILY COFFEE HOUR.....10 a.m. bring your favorite beverage and engage in conversation, Alderman Lobby.

TUE- Greenhouse Committee, 8:30-10:30 a.m., 398 AlderH.

WED- Growth Chamber Meeting, 8:30-1:30, 394 AlderH.

THR- Growth Chamber Meeting, 8:30-1:30, 394 AlderH.

Master's Defence Seminar, Factors affecting anthocyanin accumulation in *Solanum tuberosum*, Chen-Yi Hung, PBS graduate student, 2:00 p.m., 394 AlderH.

LOOKING AHEAD.....New graduate student orientation, beginning with lunch with Jim Luby and Gary Gardner, 12:00 noon, 394 AlderH. Reception for all new persons working/studying in the department begins at 3:30 p.m., Alderman Lobby. Mark your calendar now.

Glenn Howe
Joe Sowokinos
Steve Lund
Florian Lauer

Sept 7
Sept 8
Sept 9
Sept 13



FOREIGN NATIONALS WITHOUT SOCIAL SECURITY NUMBERS OR COMPLETED i-9 FORMS.....due to the large volume of foreign nationals without social security numbers who have accepted University of Minnesota employment beginning fall quarter, a rep from the SSA office will be available on 9/18 to process social security applications directly from the Payroll Department. This will eliminate a trip to the Social Security office for an in-person interview. Monday, September 18, 9-11:30 am and 1-3:30 pm, U of M Payroll Department, 1300 S. 2nd St., Suite 545, Minneapolis.

LUCE SCHOLARS PROGRAM.....the U of MN has been invited by the Henry Luce Foundation in NY to submit up to three nominees to the competition for the Luce Scholars Program. Through this unique program, young Americans with high leadership ability are given the opportunity to spend a year in Asia as professional apprentices under the guidance of leading Asian professionals. The distinguishing feature of the program is that it is directed toward students or junior faculty in any field except Asian Studies, who have not had significant exposure to Asian culture. Deadline to apply is November 1, 1995. Contact Myrna Smith, Graduate School Fellowship Office for application materials.

A BELATED CONGRATULATIONS.....to Maria Janssen who successfully completed her doctoral degree. Dr. Janssen and family are taking a much deserved break and visiting family in their homeland (The Netherlands).

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for September, 1995
Call 443-2460, extension 106 for information

- Sept 2,10, 17 & 24 Sense-A-Tional Sundays, 1-3 pm, interactive stations in the new Sensory Garden with various plants through touch, taste, smell and sound.
- Sept 10 Grandparent's Day
- Sept 16&17 Arboretum Flower & Garden Show. Open to any amateur gardener. Contact Nancy Allison at 443-2440 for info and show guidelines. The public can view the winners and displays from 1-4:30 pm on 9/16 and 11-4:30 on 9/17.
- Sept 30 Autumn Sampler at the Arboretum, 9-3 pm. Come enjoy the splendid fall color of the Arboretum's many plant, shrub and tree collections. This even also celebrates the harvest season with Arboretum apple cider-pressing demonstrations (with tasty samplings for all) and featured apples sales. Garden clubs and herb societies will offer a special sampling of fall bulbs, gardening supplies and made-from-the-garden goodies. Master Gardeners and other gardening experts will share their special horticultural knowledge with you. The Arboretum Auxiliary will raffle off its beautiful handmade garden quilt as well as feature their sale of one-of-a-kind dried flower arrangements. Fun entertainment and Learning Center children's activities, top off this harvest celebration.

Classes:

- Sept 12 Growing and Drying Everlastings, 10-12 noon, \$15/20
- Sept 15 Planting for Butterflies, 10-noon, \$15/20
- Sept 16&23 Watercolor Workshop, 9:30-12:30 pm, \$50/60

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

Maroon & Gold Casual Fridays

GO GOPHERS

TWIG BENDER

Volume 13, #32, 9/01/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for September 3-9

September 1995						
S	M	T	W	T	F	S
					1	2
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MON- University Holiday

DAILY COFFEE HOUR.....10 a.m. bring your favorite beverage and engage in conversation, Alderman Lobby.

FALL 1995 REGISTRATION.....reopened August 28 and continues through October 6 by which time all Graduate School students must be registered. New graduate students no longer need to pick up first-time registration materials in 309 Johnston Hall because of the new registration by computer system. Class Schedules are available in the University bookstores. Instructions for computerized self-registration are located on pages 6-10 in the Fall Quarter Class Schedule. Students who use the Course Request Form with the adviser's signature may continue to register in person at 202 Fraser Hall or 130 Coffey Hall. If you are registering for a Hort course that requires special approval, you must see Evonne to obtain a *Magic Number*. Hort students who have registration questions should check with their advisor and/or see Evonne in the main Hort office. With implementation of the new Ucard, once a new graduate students has registered they can pick up their I.D. cards in 40 Coffman Hall.

A CONFERENCE ON WOMEN AND LEADERSHIP.....Women Learning, Women Leading, Women in Action, October 12-14, Radisson Metrodome. Early registration ends September 18. Questions: 612-641-2480. Sponsored by Minnesota Center for Women in Government & Minnesota Women Elected Officials, Hamline University. More information posted on easel located outside 305 Alderman Hall.

CRIME ALERT NETWORK....arson fires in Blegan Hall men's and women's restrooms, lower level; also lower level men's restroom in the Humphrey Center on 8-29-95. Anyone with information concerning these fires is asked to contact the University of MN Police at 624-3550.

LOOKING AHEAD.....2nd interviews for finalist of Dean of COAFES are:
Elton Aberle - September 12
David Chicoine - September 14
Michael Martin - September 20
Time and place of the Open Forum will be announced soon.

NEW GRAD STUDENT ORIENTATION.....beginning with lunch with Jim Luby and Gary Gardner, SEPT 20, 12:00 noon, 394 AlderH. RECEPTION for all new persons working/studying in the department begins at 3:30 p.m., Alderman Lobby. Mark your calendar now.

SEPTEMBER BIRTHDAY CELEBRATION....will be Friday, Sept 29 at 9:30 a.m. 394 AlderH. See Evonne to sign up and bring treats. Thanks.

Glenn Howe
Joe Sowokinos
Steve Lund
Florian Lauer
Ed Stadelmann

Sept 7
Sept 8
Sept 9
Sept 13
Sept 24



Please see Evonne if I missed listing your birthday

E-MAIL.....all students are encouraged to turn in their e-mail address to Evonne. Beginning Fall Quarter, the Twig Bender will be sent via e-mail to all. Thanks.

MAROON & GOLD CASUAL FRIDAYS

GO GOPHERS

CALENDAR/NEWS for September 10-16

September 1995						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DAILY COFFEE HOUR.....10 a.m. bring your favorite beverage and engage in conversation, Alderman Lobby.

TUE- Open Forum, Elton Aberle, 2:30-3:45 p.m., 335 BorH.

THR- Open Forum, David Chicoine, 2:30-3:45 p.m., 335 BorH.

GRADUATE FACULTY.....please check with your advisees on whether they are to give a seminar during Fall or Winter Quarter. The Wednesday seminar schedule is being planned now and students need to reserve a date by September 20. Have your advisees get in touch with seminar committee chair, Emily Hoover. A reminder that seminar is Hort 8042 on Wednesdays, 3:30 pm, 415 AlderH.

LAST CHANCE.....for all hort students to turn in their e-mail address to Evonne. Beginning Fall Quarter committee meeting notices, Twig Bender, and other types of information will be generated via e-mail to all. A signup is posted in the back hallway for you to list your e-mail address. Thanks.

APPLE HOUSE.....taste and purchase more than 75 unique numbered selections, popular favorites, and new varieties of apples developed during almost 90 years of apple breeding at the University of Minnesota's Horticultural Research Center (HRC). Proceeds from the apple sales are used to support the fruit and vegetable research programs at the HRC. The Apple House opens August 17 until October 31 every Monday-Saturday from 10-6 and Sunday from noon to 6:00 pm. For a recorded message about apple availability, call 612-474-9440.

GREENHOUSE UPDATE.....greenhouse space allocations for research and teaching, 1995-96, were distributed the week of September 5-8. Attached you also should have received last year's space usage, greenhouse space and supplies reimbursements, and greenhouse expenditures for the year 1994-95. If you have any questions, please contact Roger Meissner. Thanks you.

STUDENT AWARDS ANNOUNCED....The Agricultural and Food Chemistry (AGF) Division of the American Chemical Society offers the following student awards:

- The Undergraduate Award - \$250 cash award and plaque
- The Withycombe Fellowship - \$2,500 cash award and plaque
- The Graduate Candidate Symposium

(Those chosen to participate in the symposium will receive travel expenses up to \$1,000 to present their research at the spring ACS meeting.) There are flyers posted for details. Deadline to apply is **October 15, 1995**.

NEW MEMBERS.....for Graduate School Research and Fellowship Committees are needed. These committees are important because their collective judgments decide the allocation of numerous awards to faculty, students, and departments across the University. If you are interested in serving on the General Research and Biomedical Research Advisory Committee, the Faculty Summer Research Committee, the McKnight Land-Grant Professorship Committee, and the Graduate School Fellowship Committee, please contact Myrna Smith, Director, Graduate Fellowship Office, 625-3394 or email your recommendations to mgsmith@mailbox.mail.umn.edu. Also posted across from faculty mailboxes.

MAROON & GOLD CASUAL FRIDAYS

GO GOPHERS

TWIG BENDER

Volume 13, #34, 9/15/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for September 17-23

September 1995						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>
24	25	26	27	28	29	30

MON- COFFEE HOUR.....10 a.m. bring your favorite vacation photos, beverage and engage in conversation, Alderman Lobby.

TUE- Greenhouse Committee, Hort Headhouse, 8:30 a.m.

WED- Faculty Consultative Committee, 8:30 a.m., 398 AlderH.
Orientation for new graduate students, 12:00 noon, 394 AlderH.
Reception for new person in department, 3:30 p.m., Alderman Lobby.

THR- Fall Quarter begins.

FRI- END OF SUMMER BBQ PICNIC 12 noon, Display Garden. A charge of \$2.00 includes (2) of either hot dogs, brats, & hamburgers, plus condiments, and beverage. Bring a veggie from your garden or a dessert to share. Faculty, staff, and students are invited. Chefs are Patrice & Evonne. *(You will be asked to sign a disclaimer)*. MUST BE WEARING MAROON & GOLD.

LAST CHANCE....*(I mean it this time)*....for all hort students to turn in their e-mail address to me (Evonne). Beginning Fall Quarter committee meeting notices, Twig Bender, and other types of information will be generated via e-mail to all. A signup is posted in the back hallway for you to list your e-mail address. Thanks.

TA POSITION AVAILABLE.....Hort 1010 CEE meets Wednesday nights during Fall Quarter. A 4-year degree in horticulture or a related field & experience in horticulture is required. Contact Peter Moe, 443-2460 X663.

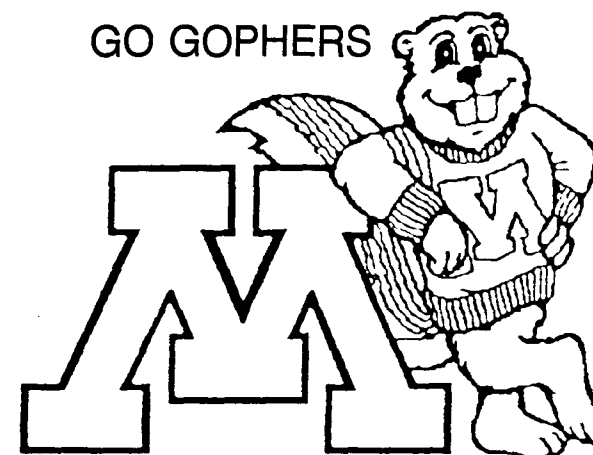
APPLE HOUSE.....taste and purchase more than 75 unique numbered selections, popular favorites, and new varieties of apples developed during almost 90 years of apple breeding at the University of Minnesota's Horticultural Research Center (HRC). Proceeds from the apple sales are used to support the fruit and vegetable research programs at the HRC. The Apple House opens August 17 until October 31 every Monday-Saturday from 10-6 and Sunday from noon to 6:00 pm. For a recorded message about apple availability, call 612-474-9440.

GARDENERS.....October 1 is the deadline to have your garden plot harvested and cleared of stakes, mesh, plastic mulch, etc. Thank you, Daniel Warnock and Roger Meissner, Plot Coordinators. *If anyone spots a maroon mini van with a handicap license cruising the garden plots, please call the police to have them removed as they have been warned a number of times.*

WELCOME NEW PEOPLE.....this article is begin in next weeks Twig Bender. New graduate students and other new persons to the department are encouraged to submit a short 1 paragraph article about themselves to Evonne by Thursdays.

MAROON & GOLD CASUAL FRIDAYS

GOPHERS vs Ball State Football Game, 6:00 p.m. Metrodome.



TWIG BENDER

Volume 13, #35, 9/23/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for September 24-30

September 1995						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
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17	18	19	20	21	22	23
<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

REMINDER....TODAY....END OF SUMMER BBQ DEPARTMENT PICNIC at 12 noon, display garden. It is Maroon & Gold Casual Friday so wear it!

MON- COFFEE HOUR.....10 a.m. bring your favorite vacation photos, beverage and engage in conversation, Alderman Lobby.

TUE- Information Meeting, International Foundation for Science will have a rep on campus to discuss their research funding program of up to 3 years, \$12,000 per year, for scientistws from developing countries, 10:00 a.m., 23 FScN. Questions: call Int Ag Programs at 4-3221.

PBS Colloquium, Gibberellins are required for embryo and seed development in pea, Dr. Stephen Swain, U of MN, Dept. of Plant Biology, 3:30 p.m., 335 BorH.

WED- No Department Seminar (Hort 8042) today

The Autumn Landscape, presented by the U of MN Extension Service and MN Nursery & Landscape Association, Moderator is Bert T. Swanson, 8:00 a.m., registration on site \$25.00 or advance registration of \$22.00 by calling 612-633-4987.

THR- No Hort 8066 today

FRI- September Birthday Celebration, 9:30 a.m., 394 AlderH. Who can bring treats? (Birthdays: Glenn Howe, Joe Sowokinos, Steve Lund, Florian Lauer, Ed Stadelmann)

STORK NEWS.....Dave & Barb Larson announce their 1st child, Aaron John Larson, Sept. 17 at 7 lb 12 oz - 21". Mark Strefeler and Alison Eldridge announce the birth of their 1st child, Abigail (Abbey) Lee, Sept. 20 at 7 lb 7.5 oz - 19". Congratulations and much happiness to these new families!

NEW STUDENT ORIENTATION.....held on Wednesday, Sept. 20 was attended by Perrin Carpenter (Advisor: Hanchek), Ginny Gaynor (Advisor: Hanchek), Esther Gesick (Advisor: Ascher), Howard Higson (Advisor: Swanson), Joe Riehle (Open RA), Faye Propsom (Advisor: Hoover), Shannon Henrickson (Advisor: Swanson), Diane Witte (Advisor: Hanchek) who all will be working on a Master's degree. There were two Master's students from the Conservation Biology Program, Rick Lehtinen and Doug Mensing, and Jason Husveth from the Land Arch Program, who are working under the advisorship of Susan Galatowitsch in attendance also. Welcoming comments were presented by Gary Gardner during a box lunch and Jim Luby, the Director of Graduate Studies informed them of program requirements. Current graduate students then took the new students on a tour of Alderman Hall, labs, and Hort greenhouse. A well attended reception followed at 3:30 p.m. in the Lobby. A special thanks to all who helped: Kathy Lloyd, Daniel Warnock, Paul Bucciaglia, Ami Beaver, Ken McNeil, Sopheak Sims, Christi Holeman, and Kerry Strop. This week is the beginning of a series of "Welcome New People" articles in the Twig Bender. Please welcome these new students as you pass them in the hallway.

WELCOME NEW PEOPLE.....**Rick Lehtinen**, a new Conservation Biology Master's student with Sue Galatowitsch. "I've recently moved up river to the Twin Cities from Winona, MN where I recently received my B.S. in Biology. Undergraduate research focused on the ecology of fish and aquatic invertebrates. Interests include music, literature, amateur astronomy, and a variety of outdoor pursuits. Personal traits are highlighted by an intense curiosity, friendliness, and an annoyingly long attention span." Rick is in room 262 - stop and say hello.

Douglas M. Mensing, is another Conservation Biology Master's student with Sue Galatowitsch. "I grew up in Hillsdale, NJ, went to college at Valparaiso University in Valparaiso, IN where I got my B.S. in Environmental Science and Art (double major). I've worked as an intern at SAIC in NJ (a consulting firm that works primarily on gov't contracts) for two summers, at Summit Envirosolutions in Minnetonka (an environmental consulting firm) for 3 1/2 years doing assorted environmental consulting with a focus in wetlands and

natural resource issues. My Master's interest is in wetlands, restoration/reclamation ecology. My hobbies/interests are camping, canoeing, music, guitar, art, nature." Doug can be found in the break room eating week old spaghetti or in his office, 452.

Shannon Henrickson...."was born in Thief River Falls, MN and I attended high school in Goodridge, MN. I received an AA degree in PreForestry at Northland Community College, Thief River Falls in 1992. I transferred to NDSU, Fargo where I received a B.S. in Horticulture, with a minor in Landscape Design in December of 1994. My hobbies include gardening, landscaping (of course!), hunting, fishing and racquetball. I am always looking for a game if anyone is interested. I am currently a first year graduate student working under the supervision of Bert Swanson. I look forward to my stay at the University and hope to meet everyone throughout the course of the year." Shannon has an office in 320. Go get acquainted!

E-MAIL SIGN UP.....is still posted across from the graduate student mailboxes. Those who have signed up will begin to find the Twig Bender in your e-mail box each week. If you have put it off, please stop in the back hall and jot down your e-mail address. Thanks from Evonne.

APPLE ORDERS....are taken on Mondays only after 9:45 a.m. You must pay at the time of ordering. Kath will have a list and order forms available for you at that time. \$5.00 1/2 peck #1 quality.

FALL QTR FACULTY ASSEMBLY....will be Friday, October 6, 1-3 p.m. in 110 Green Hall. Guest speaker will be Dr. Ford Runge, Professor of Ag & Applied Economics. Refreshments at 12:45 pm.

APPOINTMENT....of Dr. Stephanie Lieberman is announced as the Director of the Office of Equal Opportunity and Affirmative Action. Dr. Lieberman comes to us from California State University at Sacramento, where she held a position very similar to the one she is assuming here as well as being senior advisor to the president of the campus. She will assume her position by November 1. Please help welcome Dr. Lieberman to our University.

Your Twig Bender will come to you on Thursday, next week (Sept 28)

MAROON & GOLD CASUAL FRIDAYS

GO GOPHERS

TWIG BENDER

Volume 13, #37, 10/6/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for October 1-7

October 1995						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- MON- MES Annual Conference, Rochester, MN (October 9-12). Any emergency phone calls should be direct to the Mayo Civic Center at 507-281-6184. Those messages will be directed to the Annual Conference registration tables for your pickup.
- TUE- PBS Colloquium, Cell differentiation in plants, Dr. Ian Sussex, University of California-Berkeley, Fourth Annual University of Minnesota Symposium in Developmental Biology, 10:40-11:20 a.m., Earle Brown Center.
- WED- Dept Seminar, Safety Training, all faculty, staff, graduate and undergraduate student workers are required to attend safety training, 3:30 p.m., 415 AlderH.
- UAC meeting rescheduled to 10/18 at 10:30 a.m., 398 AlderH.
- THR- Kuehnast Lectureship in Climatology, Co₂ and the biosphere: The incredible legacy of the industrial revolution, Dr. Sherwood B. Idso, Research Physicist, U.S. Water Conservation Laboratory Agricultural Research Service, U.S. Department of Agriculture, Phoenix, Arizona, 3:30 p.m. SPSC Theater.
- FRI- Apple Pressing Party, Hort Research Center, 6-8 pm. Families Welcome....bring containers (washed plastic milk jugs, for example, to take home the cider you press. Call Anne Hanchek if you have questions, 624-1706.

WELCOME NEW PEOPLE.....**Ginny Gaynor**...."home for my husband, Wayne, and me is New Richmond, WI, where we're surrounded by acres of goldenrod and pocket gophers (no kids or pets). When we moved here eight years ago I began searching field guides for the prairie flowers. This hobby finally got the better of me so I came to the Hort Department to study native prairie plants. I have a B.A. in English from Mount Holyoke College and most recently worked as a technical writer. It doesn't seem like there is much free time these days, but in my real or fantasized leisure I am gardening, reading novels, backpacking, canoeing, cross-country skiing, and once in a rare while doing old-fashioned domestic stuff like quilting." Ginny's office is 440 Alderman Hall.

UPDATE.....on Kerstin Concibido. As many of you are aware, while Vergel and Kerstin were enroute to Carbondale, Illinois, Kerstin was seriously injured in a car accident in Wisconsin and has been hospitalized in LaCrosse, WI. She and Vergel will come back to the Twin Cities where Kerstin will require rehabilitation for perhaps up to 3 months. This young couple are in dire straights and need all the help we can give them both financially and emotionally. Laura Kalisch is accepting your donations which will be used to help finance medical expenses and miscellaneous expenses involved in moving them back to Minnesota. Friends in Plant Path have Vergel staying with them but storage space for their personal items is also needed. If you can help in any way, please see Laura Kalisch immediately and thank you for lending your financial support.

NEWS FROM PETER VELGUTH...."Susan and I are settled in and busy at work. We like Madison very much and enjoy having our own garden at home to work in. We have had some fun driving around sightseeing and enjoying a few of the nice small towns in the area. Our house is now a home, even though we don't have quite all the boxes unpacked. My new e-mail address is velguth@calshp.cals.wisc.edu."

CAREER SERVICES.....announces Career Day is scheduled for Wednesday, October 25 from 10:00 - 3:00 p.m. Recruiting activity looks strong again this year. A copy of the current recruiting schedule is posted on the bulletin board in the lobby of Alderman Hall. College Placement Annuals have arrived. Seniors will receive a complementary copy by stopping in the Career Services Office, 277 Coffey Hall. FFI call Jean Underwood at 4-2710.

GRADUATE STUDENT OFFICERS 1995-96:

President - Ami Beaver

GSC Comm Reps - Joe Riehle, Christi Holeman, Robert Quene (Alt)

COGS Rep - Kerry Strobe

Seminar Rep - Wen-Ping Chen

Social Comm - Robert Quene, Leslie Yetka

Public Relations & Grievance Comm - Ken McNeil

Faculty Meeting Rep - Daniel Warnock

Garden Plot Committee - Daniel Warnock, Mary Henry, Ami Beaver, Perrin Carpenter, Talli Lee

Welcome Abroad!

CALL FOR NONCREDIT COURSE PROPOSALS.....from the Compleat and Practical Scholar Programs in Continuing Education and Extension (CEE) invite University faculty, post-doctoral fellows, and advanced graduate students to submit proposals for noncredit classes for the 1996-97 academic year. (SS, F 1996 and W, Sp 1997) The Compleat Scholar is a liberal arts program offering courses in the arts, social sciences, literature, writing, and the natural and physical sciences. Practical Scholar classes provide applied knowledge and skill-building in areas such as career planning, personal finance and investment, wellness, gardening, landscaping, and study skills. Together the programs offer over 380 courses per year to adults in the Twin Cities area. Noncredit classes offer flexible scheduling, including day, evening, and Saturday; classes are held both on campus and at Twin Cities sites; meetings are often two hours per week for two to seven weeks, but day-long seminars and other formats are possible; there are no exams or grades to assign. If you are a faculty member who might enjoy teaching in an area of interest outside your normal teaching load, or an advanced graduate student who would like an opportunity to broaden your teaching experience, please contact: Susan Lindoo, Program Director, 206 Wesbrook Hall, 624-3382, e-mail: slindoo@mail.cee.umn.edu

FELLOWSHIP ANNOUNCED.... 1996 NSF Graduate & Minority Research Fellowship Program are three-year fellowships offered to graduating seniors and first-year graduate students in all science fields. Hard copy applications will be available shortly from the Graduate School Fellowship Office, 321 Johnston Hall or they may be obtained by electronic mail from NSF. Instructions posted across from grad student mailboxes.

GRAZING DOWN BUFORD.....homecoming event sponsored by University Alumni and the University community, Saturday, October 14, 11:00 a.m., featuring food booths (MN products), entertainment by Mark Stillman, BIG FUN show, campus tours by tram, college exhibits and tours. At 12:30 there will be the Little Red Oil Can presentation, recognition of past winners, and door prize drawings with guests, Provost Gene Allen and former CHE Dean, Keith McFarland. Following will be shuttles to the Mpls Campus for the homecoming parade, 4 pm, pep rally at the Metrodome and the Golden Gophers vs Northwestern Wildcats homecoming game (6 pm). Food coupons will be available for the Minnesota meal for the first 200 registrants. Otherwise, the only costs will be for food and football tickets. For registration and tickets, call Mark Allen at 624-5419. If you're interested in providing a booth at the fair, call Doris Mold at 626-1277.

TAILGATING.....before Gopher home football games in Lot 31, University and Oak, across from Williams Arena, 4-6 pm. October 7, Purdue; October 14, Northwestern (2-4); Nov 4, Ohio State; Nov 11, Wisconsin. University Food Service will have a brats/hot dogs stand or bring your own. Admission is \$3 per car. Free shuttle buses will run to and from the Metrodome.

MAROON & GOLD CASUAL FRIDAYS

Goldy Gopher and the Prize Patrol made their first rounds last Friday. They visited the Grievance Office, the Learning Resource Centers in Walter Library, the Graduate School and some of the CLA offices in Johnston Hall. Goldy and the PP awarded big prizes to the lucky few that picked the "lucky ball." But, everyone WINS when they WEAR MAROON AND GOLD because no matter which ball you pick, you get a coupon for a free jumbo cookie from University Food Services. This week Goldy will visit the departments that e-mail a most clever 25-word reason why people should wear maroon and gold every Friday. Kristie McPhail, U of M Alumni Association, 624-2323, mcph0006@gold.tc.umn.edu.

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 13, #38, 10/13/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

REMINDER: Civil Service, 9 am, Friday, October 13, 394 Alderman Hall PLUS Apple Pressing Party is October 13 at the Hort Research Center, 6-8 pm. Families Welcome....bring containers (washed plastic milk jugs, for example, to take home the cider you press. Please call Anne Hanchek to make reservations so that there will be enough apples, 624-1706, e-mail hanch001@maroon.tc.umn.edu.

CALENDAR/NEWS for October 15-21

October 1995						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>
22	23	24	25	26	27	28
29	30	31				

SUN- Minnesota Gardening, 9 am & 9 pm, Channel 6 MCN, Storing Garden Produce: How to keep squash, root crops, and other vegetables for use throughout the winter.

MON- Department Retreat, SPSC Minnesota Commons, 8-5.

PIBr Seminar, Covariance Components Analysis and Genetics on Complex Pedigrees, Dr. C. Geyer, School of Statistics, U of MN, 3:30 pm 306 BorH.

TUE- Hort Display Garden Committee, 10:30 a.m., 394 AlderH.

PBS Colloquium, Epigenetic silencing of a maize gene: a Mendelian assumption found wanting, Dr. Jerry Kermicle, University of Wisconsin, Madison, 3:30 pm, 335 BorH.

WED- Faculty Consultative Committee, 9:00 am, 398 AlderH.

Undergraduate Affairs Committee, 10:30 am, 398 AlderH.

Hort Faculty Meeting, 1:00 pm, 394 AlderH.

Dept Seminar, Maturation and Rejuvenation in jack pine *Pinus banksiana*, Dr. Robin Browne, Ag-Canada, Mordan Manitoba, 3:30 pm, 415 AlderH.

THR- Hort 8066, Research Proposal: Studying Cold Hardiness in Five Varieties of *Miscanthus sinensis*, Mary Henry, 4:05 pm, 394 AlderH.

GCB Seminar, Genomic Analysis of *Candida albicans*, Dr. Pete Magee, GCB, U of MN, 3:30 pm, 335 BorH.

TOP TEN SIGNS THAT NO DOUBT YOU HAVE STAYED TOO LONG by Dave Davis (at his retirement party)

10. You no longer are sure who is the Dean and it is becoming increasingly difficult to convince yourself that you understand the University vice presidential structure, and you are quite concerned about it.
9. Gary Gardner asks if you have ever been to Morocco.
8. Incoming mail for long departed students, staff, and faculty, and for deceased retirees, routinely is routed to your mailbox.
7. Your self-convincing style that there is a 1 to 1 relationship between frenetic activity and profound accomplishment has begun to show hairline cracks.
6. Your language skills seem to be declining; for example everyone seems to know what the acronym 'CD' means, but when you hear it too many different things come to mind.
5. Laura Kalisch has informed you that your colleagues have elected you to represent them on the College Senescence Committee and that the committee also will consider semesters, curriculum revision, and final revisions to the 1994 budget in its scope.
4. Are convinced that you know the results of an experiment by driving around the field or by watching the expression on your graduate assistant's face as he takes data.
3. You can't really understand why your last paper got rejected.
2. More and More people ask you how good it really was in the 'good ol days', if you know what I mean.

And #1 sign that you have stayed too long.....You have started reading the Daily again to keep informed.

GOOD LUCK GOPHERS

TWIG BENDER

Volume 13, #39, 10/20/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

Department of Horticultural Science
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CALENDAR/NEWS for October 22-28

October 1995						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>
29	30	31				

MON- PIBr Seminar, Assessing Risk of Transgenic Crops, Rockney Atz, 3:30 pm 306 BorH.

TUE- PBS Colloquium, Characterization and expression of multifunctional and multi-subunit forms of acetyl coA carboxylase in soybean, Dr. James Anderson, Agronomy & Plant Genetics, U of MN, 3:30 pm, 335 BorH.

WED- October Birthday Celebration, 9:30 a.m. 394 AlderH. Faculty, staff and students are welcome to come, have coffee, and enjoy treats. Please sign up with Evonne to bring treats. Thanks.

COAFES Career Day, 10:00-3:00 pm, North Star Ballroom

Graduate Studies Committee, 1:00 pm, 398 AlderH.

Dept Seminar, The Role of Tundra Vegetation in Ecosystem Global Processes, Dr. F. Stuart (Terry) Chapin III, Hill Visiting Professor, EBB, *4:00 pm, 335 BorH.

Hort Club Meeting, 5:00 pm, meet at the headhouse to plant bulbs for the future Valentines Day Sale.

THR- Pumpkin Carving Party, noon, 394 AlderH. Bring a pumpkin to carve and a treat to share. See Robert Quene for details.

GCB Seminar, Cellular Retinoic Acid Binding Proteins and Male Germ Cell Specific Orphan Receptor, Dr. Li-Na Wei, Dept of Pharmacology, U of MN, 3:30 pm, 335 BorH.

OCTOBER BIRTHDAYS:

Talli Lee	October 8
Sopheak Sim	October 10
Troy Carson	October 14
Dave Larson	October 14
Jason Husveth	October 17
Richard Reineke	October 23
Charlotte Herman	October 26



WELCOME NEW PEOPLE.....**Serena Sjolund** (pronounced "Showland") has been hired to replace Lynnette Brudvig in the main Hort office. She writes "I came here from Korea twelve years ago, because I married a native Minnesotan, Rob. We have one son, Daniel, who is in the first grade. I have been working at the U of M for the past ten years in the Biostatistics Department, School of Public Health. I am enrolled in COAFES and am studying part-time toward a degree in Food Science. I am looking for someone who knows how to grow a good crop of cabbage --nappa-- so I can make some great Kimchee! (a famous, very aromatic Korean dish)." Come into the main office and welcome Serena.

MINNESOTA STATE HORTICULTURAL SOCIETY (MSHS) NEWS
Welcome new Community Greening Coordinator....Terri Goodfellow-Heyer is the new staff person for Minnesota. Green. Terri will provide technical assistance and outreach to community throughout the state, plus produce a quarterly greening newsletter, implementing the annual greening conference and coordinating community gardening awards. Terri is a Master Gardener, with special training as a tree care advisor and was formerly the Master Gardener Volunteer Coordinator in Hennepin County. Welcome!

INTERNSHIP.....available at MSHS immediately for a community greening intern, through May of 1996 (or for part of that time), at the Center for Northern Gardening, 1755 Prior Avenue North, Falcon Heights, MN 55113. This internship requires approximately 10 hours per week; a stipend of \$5.00 per hr. To apply call Terri Goodfellow-Heyer, 643-3601.

MSHS Library Hours.....the 15-volume library at the Center for Northern Gardening is open Monday through Friday, 8-4:30 pm. Extended hours to 9 pm on Thursdays through 11/16. The library is open to everyone.

GUIDELINES FOR DEALING WITH THREATS AND VIOLENCE IN THE WORKPLACE.....1) Any individual should call 911 for police assistance if he or she observe violence taking place or believes/feels there is an immediate threat to someone's safety. 2) All faculty, staff, and student workers should communicate to an administrator/supervisor any knowledge of violence or threatening behavior including possession of a weapon in the workplace. 3) Administrators and supervisors should call 625-2000 (then press #2 for the directive option) for consultation assistance if they believe or feel there is an emerging potential threat to someone's safety. This number will connect the caller with the receptionist at the Office of Human Resources. The caller should tell the receptionist that he/she wishes to be contacted by a member of the Threat Assessment Group and indicate if the situation is urgent. This memorandum from Paul Tschida, Assistant Vice President for Safety and Health Management, Jim Meland, Faculty and Academic Staff Assistance Program.

1995 COAFES FACULTY CONFERENCE.....announced for Tuesday, December 12, 8:15 am - 5:00 pm, reception to follow at the Radisson Metrodome. The keynote speaker is Karl N. Stauber, Undersecretary for Research, Education and Economics, USDA, Scholarship in Chaos: Developing Strategies to Manage Change. Registration details will be mailed in November. Mark your calendars now.

FREE & OPEN TO THE PUBIC....the AHC Orchestra will perform a concert on October 28 at 8 pm at the Ted Mann Concert Hall. They will feature Karen Lee, a second year medical student playing the Tchaikovsky Violin Concerto. A reception will follow at the Concert Hall. DBS will be taping the concert and will be aired in January on CBS Sunday Morning with Charles Osgood. A good turnout is needed for this event. Although the concert is free, tickets are being distributed through the Public Relations Office (A395) and the hospital gift shop.

MAROON & GOLD CASUAL FRIDAYS.....lets get in the spirit and wear your M & G on Fridays. The Goldy Gopher Prize Patrol is out visiting departments each Friday around 10:00 a.m. To encourage your participation, I am distributing discount coupons where you can save 20% on your favorite U of M or Gopher clothing items at the U of M Bookstores. Please stop by and pick one up from me. Let's have the classrooms/campus filled with MAROON & GOLD EVERY FRIDAY.

GOPHER FOOTBALL VS MICHIGAN STATE (away), Saturday (7pm MSC)
GOPHER HOCKEY VS COLORADO COLLEGE (away), Fri/Sat (3:05 MSC)

!GO GOPHERS!

ATTENTION STUDENTS.....Jr & Sr majoring in Horticulture and/or Plant Science with an interest in writing, \$2,000 in Scholarship from The Garden Writers Foundation. See Evonne for application, **DEADLINE: 12/1/95**

TALENTED STUDENTS....have you lost your desire for the physical sciences because they lack opportunities for tangible relevant experience. In response to this, DuPont Company is announcing the 1996 DuPont Plunkett Student Awards for Innovation with *Teflon*, which is designed to offer the career-shaping, real-world challenge so important in motivating a student's academic performance. First prize is a paid summer internship with DuPont in the fluoropolymer area - a \$10,000 value, or the winner may choose a cash prize of \$3,000. All winners and honorable mentions receive cash awards, plaques, and expense-paid trips to the awards event. See Evonne for application, **DEADLINE: January 12, 1996**

RETIRED....following 31 years of service, William "Bill" Breene, Professor Emeritus of Food Science and Nutrition, will be honored on Saturday, November 18 in the Terrace Room, SPSC. Light refreshments will be served at 7:30 pm and a program will begin at 8:00 pm. Please RSVP by 4:30, November 3 to Professor Gary Reinecciu at 4-3201 or Geri Skogen at 4-4789.

HAVE A GOOD WEEKEND

TWIG BENDER

Volume 13, #40, 10/27/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

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

SUN- DAYLIGHT SAVINGS TIME ENDS - turn clocks back

CALENDAR/NEWS for Oct 29 - Nov 4

October/November 1995						
S	M	T	W	T	F	S
<u>29</u>	<u>30</u>	<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

TUE- HAPPY HALLOWEEN

PBS Colloquium, Characterization of embryogenesis-related gene products in Alfalfa, Dr. Randall Giroux, USDA Rust Lab, St. Paul, 3:30 pm, 335 BorH.

WED- Faculty Consultative Committee, 9:00-10:30 am, 398 AlderH.

Undergraduate Affairs Committee, 11-12 noon, 398 AlderH.
Graduate Student Lunch, just for fun, all graduate students housed in Alderman Hall are invited to a brown bagger.

Graduate Studies Committee, 12 noon, 398 AlderH.

Dept Seminar, Treasure the Exceptions: Consequences of Congruity Backcrossing in *Phaseolus*, Dr. Neil Anderson, Dept of Hort. 3:30 pm, 415 AlderH.

Hort Club Meeting, 5:00 pm, 394 AlderH.

THR- GCB Seminar, Effects of a Drosophila Insulator Protein on Enhance/Promoter Interactions, Dr. Pam Geyer, Dept. of Biochemistry, University of Iowa, 3:30 pm, 335 BorH.

1996 SALZBURG SEMINAR PROGRAM....opportunity to nominate one faculty member at the Assistant or Associate Professor level for a Presidential Fellowship to the Salzburg Program. Internal Deadline: Dec 1, 1995

CONGRATULATIONS....to Deb Brown on her second big award for 1995! At the MES Annual Conference in Rochester, she received the 1995 Minnesota Extension Service Dean and Director's Distinguished Extension Faculty Award. The award goes to one campus based and one field (i.e., county) based faculty member each year, and carries with it a large engraved plaque and \$1,000.

GARDEN PLOT AWARDS.....the 1995 Gardening Enhancement Project (garden plots) was a great success. There were fifteen gardeners who agreed to have their plots judged during the season. We should all congratulate the following gardeners for their achievements.

Mr. Clean Award (for the neatest plot) goes to The Merrick Co. (the crew and their friends that help maintain the greenhouse and wash pots for us).

The Medic Alert (for the plot/crop with the most disease or insect problems) - Rebecca Brown for her tomatoes in need of a doctor.

The Sprout Award (for the smallest flower/produce) - Sopheak Sim and The Merrick Co. tied. The specific crop/plant resulting in the award was not identified (too small??).

The Monet Award (for the best use of color) - Chen-Yi Hung for the flowers in bloom during the judging.

The Early Monet Award (for the best use of color early in the year) - Ami Beaver and Tami VanGaal for their painted landscape.

The Creeping Charlie Award (for the best use of native species as ground cover) - Christie Holeman and the Ami Beaver/Tami VanGaal team tied.

The Sears Tower Award (for the best use of vertical space) - Daniel Warnock for his wall o'beans.

The Master Gardener Award (for the best overall plot) - Mary Henry and Rebecca Brown tied. Congratulations.

Thanks to our judges for comparing the plots and making the tough decisions. Anyone who feels they were unfairly judged may want to slip Roger Cindy, Dean, or Brian a few greenbacks prior to next year's competitions. Looking forward to next year.....Daniel Warnock.

HALLOWEEN PARTY....at Coffman Memorial Union on Saturday, October 28, 11 am-4:30 pm. Events will include The Magic of David Baer, Studio presentations, Gopher Game Room specials, and Wendy Rose Baldinger with Wiggle, Jiggle, and Jam!!! Who Framed Roger Rabbit will be shown in the Coffman Memorial Theatre at 1 and 3:15 pm. All is free.

Greenhouse News
Roger Meissner

GREENHOUSE INSPECTION....this is a reminder that I will be inspecting the greenhouse sections every Monday. In this inspection I will be checking time clocks, lights, fans, etc. to make sure everything is working in proper order. I will also be checking sections for sanitation. Dead foliage and soil debris on benches and floors are two items I will be looking for specifically. Sanitation is the first and most important step in pest control. Project leaders will receive a notice if your section is found to be unacceptable as regards to sanitation. This notice is on red paper so you will not miss it. Please help in keeping your greenhouse section and headhouse areas you work in clean at all times. If you have any questions, please contact me. Thanks for your cooperation

GREENHOUSE COOLING PADS . . . will be removed and tanks drained the week of October 30th. We will be cooling the greenhouse by the use of upper vents and fans. You may open side vents in your section but you're also responsible for closing these vents when you leave.

WORKER PROTECTION STANDARD (WPS). . . if you work or teach in the Horticulture greenhouse facility you must be trained in WPS. This training is good for 5 years. If you would like to set up a training session, contact me at 4-3631 or e-mail at meiss003@maroon.tc.umn.edu

EMPLOYEE HEALTH AND BENEFITS FAIR....Tuesday, October 31, 10 am to 3 pm. Information booths and health screening, SPSC North Star Ballroom. Information on medical & dental plans, retirement investments, or which exercises you can do at your work station to build your energy. Visit all the booths and attend the Special Presentations which include:

- Saving and Investing for Retirement, Part I**, 10-11 am, Theatre SPSC, Vic Fickling, Employee Benefits Counselor.
- Lifetimes Fitness**, 10-11, Rm 110 SPSC, Amy Woodcock, Dept. of Recreational Sports.
- Saving & Investing for Retirement, Part II**, 11-noon, Theatre SPSC, Vic Fickling, Employee Benefits Counselor.
- Therapeutic Gardening**, 11-noon, Rm 110 SPSC, Jeanne Larson, Coordinator, Therapeutic Horticulture, Landscape Arboretum.
- The Seven Habits of Highly Effective People**, noon-1 pm, Theatre SPSC, Robert Seybold, University Counseling & Consulting Services.
- The Pet Connection**, 1-2 pm, Rm 110 SPSC, Dr. Robert K. Anderson, Professor & Director Emeritus, Center to Study Human-Animal Relationships.
- Cooking Fast and Light**, 2-3 pm, Rm 110 SPSC, Susan Tanner, Boynton Health Service Nutrition Department.

GO GOPHERS

MAROON & GOLD CASUAL FRIDAYS

NATIONAL RESEARCH INITIATIVE COMPETITIVE GRANTS PROGRAM . . .
1996 Program Description and applications are available from **Laura Kalisch**.
Dates are:

- | | |
|-------------------|--|
| November 27, 1995 | Plant Genome, Plant Genetic Mechanisms |
| December 4, 1995 | Plant Responses to the Environment |
| January 22, 1996 | Plant Growth and Development |
| February 20, 1996 | Research Career Enhancement Awards |
| May 6, 1996 | Biological Control Research |

TWIG BENDER

Volume 13, #41, 11/3/95, Editor: Evonne Kuyper (kuype001@maroon.tc.umn.edu)

Department of Horticultural Science
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CALENDAR/NEWS for November 5-11

November 1995						
S	M	T	W	T	F	S
			1	2	3	4
<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MON- Faculty Meeting (Promotion & Tenure - Associate Professors), 1-5 p.m., 394 AlderH.

Plant Breeding & Genetics Seminar, Bioengineering of Plant Disease Resistance, Shelly Whelan, 3:30 pm, 306 BorH.

TUE- Faculty Meeting (Promotion & Tenure - Assistant Professors), 1-3:30 p.m., 394 AlderH.

PBS Colloquium, Nitrogen source affects carbon isotope composition of legumes, Dr. Diane Knight, Soil Science, U of MN, 3:30 pm, 335 BorH.

WED- UAC, 11:00 a.m., 398 AlderH.

Regular Faculty Meeting, 1:00, 394 AlderH.

Hort Dept. Seminar, Jimmy Appleseed Goes to Eden (collecting wild apples in Kazakhstan), 3:30 pm, 415 AlderH.

THR- Safety Committee, 1:30-3:30 pm, 398 AlderH.

GCB Seminar, Transcriptional Activators, Chromatin, and the Control of Cell Fate in Drosophila, Dr. John Tamkun, Dept. of Biology, University of California, Santa Cruz, 3:30 p.m., 335 BorH.

PART-TIME HORT TECHNICIAN....wanted by the Dial U to answer consumer questions in the areas of gardening, lawn and landscape. Qualifications: advanced undergrad, graduate or grad student with experience in hort activities as well as relevant coursework. Good communication skills are needed, as is a desire to help people with their questions and problems. About 10 hours/week through early spring, then can expand to 30+ hours over the summer. This excellent experience helps many technicians find good employment opportunities later. Contact Deb Brown, 158 Alderman, 624-7491 or e-mail dbrown@mes.umn.edu

NOVEMBER BIRTHDAY CELEBRATION....will be Monday, November 20 at 9:30 a.m. 394 AlderH. Faculty, staff and students are welcome to come, have coffee, and enjoy treats. Please sign up with Evonne to bring treats. Thanks. We are celebrating birthdays for the following people:

Karl Sauter	Nov 4
Howard Higson	Nov 4
Christina Holeman	Nov 11
Cindy Tong	Nov 11
Dave Bedford	Nov 12
Carl Rosen	Nov 12
Dave Olson	Nov 13
Bud Markhart	Nov 15
Mark Strefeler	Nov 28



CONGRATULATIONS

STATE OF THE UNIVERSITY ADDRESS....by President Nils Hasselmo on November 16, 3 p.m., Proscenium Theater, Rarig Center, 330-21st Ave. So. Minneapolis. A question and answer period will follow the speech. Reception follows in Rarig Center lower lobby.

GROWTH CHAMBER NEWS.....like a train going down grade, the new growth chamber project is on it's way. Meetings have been held, people in charge identified and tentative dates declared. As of Nov.2nd, it would appear that we will be loosing the use of our old growth chambers and walk in coolers on or before Dec.8th. The determining factor in this date will be the arrival of the new cooling towers and associated equipment, which will likely be airlifted to the roof of Alderman Hall. As there are many

players in this operation, this Nov 8th date may be moved around somewhat but hopefully be accurate. Plans should be made to terminate experiments in growth chambers and material in coolers ,that must be kept cold, transferred to coolers in the headhouse by this date. Coordination and assignment of space for headhouse cooler space will likely be done through Dave Olson and Roger Meissner. It would be much appreciated if projects would survey their storage at this time to determine space and temperature requirements. Patience in this process is a quality that will be appreciated. To this end, it should be understood that quantity available and temperature provided will be as close to needs as possible, so give us a break! I plan to keep the folks in the Department informed of events, as the project proceeds. Here's hoping that this plan goes better than others I have made. Dave Olson

GO GOPHERS

MAROON & GOLD CASUAL FRIDAYS



TWIG BENDER

Volume 13, #42, 11/10/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

Department of Horticultural Science
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CALENDAR/NEWS for November 12-18

November 1995						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>
19	20	21	22	23	24	25
26	27	28	29	30		

MON- Accounting office staff unavailable most of the day, November 13th. Patrice and Angie will be attending the CUFS User Network meeting. Please let us know in advance if you need anything from us.

Dept. Coffee Hour, bring your cup and plan to discuss the change to semesters, 10 a.m., Alderman Lobby.

PB Seminar, Limitations of QTL experiments as revealed by QTL simulation, Jeff McElroy, 3:30 pm, 306 BorH.

TUE- Dept. Coffee Hour, bring your cup and plan to brainstorm on how to entice Goldy over to horticulture on some Friday, 10 a.m., Alderman Lobby.

PBS Colloquium, Genetic analysis of morphological differentiation in *S. cerevisiae*, Dr. Alan Myers, Iowa State University, Ames, IA, 3:30 pm, 335 BorH.

WED- Growth Chamber Meeting, 394 AlderH.
FCC, 10:30 a.m., 398 AlderH.
GSC, 12 noon, 398 AlderH.
Faculty Meeting (P&T/Assistant Professors), 1:00 p.m., 394 AlderH.

Dept. Seminar, Writing decision cases about Horticulture, Dr. Emily Hoover, Dept. of Horticultural Science, U MN, 3:30 p.m., 415 AlderH.

THR- Dept. Coffee Hour, bring your cup and plan to discuss peer review of teaching, 10 a.m., Alderman Lobby.

THR- State of the University Address, President Nils Hasselmo, 3:00 p.m., Proscenium Theater, Rarig Center, 330-21st Ave. So., Mpls.

GCB Seminar, Genetic Analysis of Mitosis in *Drosophila*, Dr. William Theurkauf, Dept. of Biochemistry, SUNY/Stonybrook, NY, 3:30 pm, 335 BorH.

Hort 8066, Research Proposal: Biochemical and physiological implication of lignification in relation to adventitious rooting of juvenile and mature phase *Hedera helix*, Richard Reineke, 4:05 pm, 394 AlderH.

WELCOME NEW PEOPLE.....Molly Trio, is our new Student Accounts Assistant in the Dept. Accounting Office. Molly will be coordinating your purchasing and storehouse requirements. Please stop in the main office to say hello.

COURSE EVALUATION TIME.....Fall quarter teaching faculty should make an appointment with Evonne to have their course evaluated. As per University Senate Policy, evaluations must be administered at the beginning of a class period, during the last two weeks in the quarter and should be administered and collected without the instructor being present.

ADVISORS.....the Hort Minor Program Forms have arrived in the main office. Please let any interested students that may be taking a Hort class that this information is now available. See Evonne in the main office.

CONFERENCE/ANNUAL MEETING.....the Minnesota Turf and Grounds Foundation 2nd Annual Conference in conjunction with the 68th Minnesota Golf Course Superintendents' Association Annual Meeting is **December 6,7,8**. Preregistration is November 22. Please see Kathy Lloyd in the main hort office for a schedule of rates and preregistration forms.

FREE PROGRAMS.....University Counseling & Consulting Services (UCCS) offers free programs to most University students. Students can receive assistance with learning and academic skills, educational and career planning, personal and relationship issues, or referral to community resources. See brochure posted across from grad mailboxes.

maroon & gold casual fridays

maroon & gold casual fridays

ATTENTION.....undergraduates, graduate advisors, graduate students, and upper-level undergraduate students in Horticulture, Landscape Architecture, Forestry, Agronomy, and Public Affairs. Announcing a new one-time-only course to be offered in Spring Term 1996.....

****Meets Graduate Topics requirement for MLA students****

*****Meets Commodity (Crop Production)**

requirement for horticulture graduate students***

HORT 5091 DIRECTION STUDIES: IN URBAN HORTICULTURE, Tuesdays 6 to 8:30 pm, plus arranged hours; 4 cr., Urban horticulture combines plant science, landscape design, and public policy to guide decisions in people-based environmental stewardship. The instructor, Dr. Harold Tukey, Jr., founding director of the Center for Urban Horticulture at the University of Washington, is an internationally-acclaimed horticulturist, and is teaching on our campus as a Hill Visiting Professor. Dr. Tukey is well-known for his ability to reach students and stimulate discussion. In this class he will facilitate an active look at the concepts and the future of urban agriculture and forestry. Class format will be lecture, facilitated discussion with expert panelists, individual and/or small group consultation, reading assignments and projects. It promises to be a unique experience. Join us! Dr. Anne M. Hanchek, Assoc. Professor, Dept. of Horticultural Science, Director of Education, Minnesota Landscape Arboretum, St. Paul and Chanhassen, Minnesota

HOLIDAY CONCERT.....for its twenty-sixth season, the 90-voice **Minnetonka Choral Society**, along with Professional soloists and symphony orchestra, will present its annual holiday concert featuring Ralph Vaughan Williams' magnificent Hodie, a retelling of the Christmas story, with words from scripture and giants of English literature including George Herbert, Thomas Hardy, and John Milton. This most loved holiday concert will conclude, as always, with favorite carols and audience sing-along. St. Therese Catholic Church, Deephaven, Sunday, December 3, 3 p.m., tickets at the door are \$7.50; \$5.00 for seniors/students or contact Anne Hanchek.

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for November, 1995
Call 443-2460, extension 106 for information

Nov 26 Como Zoo visits the Arboretum, and book signing by the authors of Nature Smart: A Family Guide to Nature, 12 noon-2 pm, Auditorium.

Nov 26 Holiday Crafts for all ages, 11-12 noon, \$10/individual; \$20/family.

Greenhouse News
Roger Meissner

FUMIGATION.....Bldg 388, Crop Service, will be fumigated again this year. Plunketts will start to prepare the building on Wednesday, Nov 22, starting to 8 a.m. At 12 noon, the building will be locked and accessed only by Plunketts personnel until Monday, Nov 27 at 7 am. No one will be permitted to enter. All electronic equipment needs to be removed from the building before fumigation. This includes computers, electronic balances and other similar types of equipment. On Monday & Tuesday (Nov 20 & 21) projects can bring seed samples into the threshing room that need to be fumigated for storing or shipping. There will be an area set aside for this. These samples need to be removed ASAP back to their projects labs and storage areas on Mon, Nov 27. For more information, call Mike at 4-5395.

SAFETY SEMINAR.....will be held on Tuesday, November 28, 10-12 noon in 335 BorH.. Mike Austen, Environmental Health, will speak on Personal Protective Equipment. He will have samples of safety apparatus such as respirators, gloves, masks, and suits that people can look at and try on. For further information, call Mike at 4-5395.

AUCTION....the U of MN Fleet Services will have its annual vehicle auction for the public on Saturday, November 18 at 11:00 a.m., Minneapolis Shops.

GO GOPHERS

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 13, #43, 11/17/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for November 19-25

November 1995						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>
26	27	28	29	30		

SUN- Minnesota Gardening, Channel 6 MCN, 9 am & 9 pm, Growing Amaryllis: Grow this lovely potted plant for bloom during the winter indoors; learn how to rebloom for future years.

MON- PB Seminar, Cereal grain doubled haploids from uniparental genome loss, Ana Marie Procopiuk, 3:30 pm, 306 BorH.

TUE- PBS Colloquium, Roles for early inframe stop codons in translational regulation of zein gene expression in maize, Mr. Richard Melvin, PBS Program, 3:30 pm, 335 BorH.

WED- UAC, 11:00 am, 398 AlderH.

No Hort Seminar

THR- Thanksgiving Day - University Holiday

FRI- University Holiday

Twig Bender now appears on our home page of the World Wide Web.
<http://www.soils.umn.edu:8003/>

FREE HOLIDAY PARTY.....3rd annual free bowling party sponsored by the Student Center Games Room will be held December 8 from 3-4:30. Horticulture students, staff and faculty are asked to sign-up on the sheet across from the mailboxes and list a average bowling score. The Games room will provide free prizes, free bowling and the winning team will receive a 10-12 lb turkey. More details to follow.....Eric, Evonne, Patrice (Chairs)

TOYS FOR TOTS.....sponsored by the St. Paul Student Center Board of Governors will be held from November 20-December 15. Put a smile on a child's face by bringing an unwrapped toy to 305 Alderman Hall.

GREENHOUSE NEWS.....by Roger Meissner

FUMIGATION.....Bldg 388, Crop Service, will be fumigated again this year. Plunketts will start to prepare the building on Wednesday, Nov 22, starting to 8 a.m. At 12 noon, the building will be locked and accessed only by Plunketts personnel until Monday, Nov 27 at 7 am. No one will be permitted to enter. All electronic equipment needs to be removed from the building before fumigation. This includes computers, electronic balances and other similar types of equipment. On Monday & Tuesday (Nov 20 & 21) projects can bring seed samples into the threshing room that need to be fumigated for storing or shipping. There will be an area set aside for this. These samples need to be removed ASAP back to their projects labs and storage areas on Mon, Nov 27. For more information, call Mike at 4-5395.

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AUCTION....the U of MN Fleet Services will have its annual vehicle auction for the public on Saturday, November 18 at 11:00 a.m., Minneapolis Shops.

LOOKING AHEAD.....

Horticulture Cookie Exchange is set for December 18 (details to follow) President Nils & Pat Hasselmo will host a reception for graduating students and their families on December 9 at Eastcliffe. (617-6800).

COAFES Faculty Conference, 8:15-6:00, Radisson Metrodome.

ATTENTION GARDEN WRITERS.....beginning in January, the Arboretum will have a free-lance position open for a person to supply 2 to 3 columns monthly to the Star Tribune newspaper, writing under the Arboretum by-line. Each month, one column addresses gardening questions sent in to the paper, and one or two columns deal with topics of general interest that connect back to the Arboretum in some way. The stipend is approximately \$100 per column. If you are interested in applying for this position, please send a resume and same 500 word column to Peter Olin, Minnesota Landscape Arboretum, 3675 Arboretum Drive, Chanhassen, MN 55317 by December 1, 1995. The sample column should answer these questions: 1) I want to grow apples organically. Are there organic methods for controlling apple pests? 2) My iris didn't bloom last spring, so I dug them all up and replanted them this summer. Will they bloom this coming spring? 3) I didn't get around to pruning my maple trees this fall. Can I prune them in winter, or should I wait for spring?

GO GOPHERS

MAROON & GOLD CASUAL FRIDAYS



MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for December, 1995
Call 443-2460, extension 106 for information

- Dec 2 Auxiliary Holiday Boutique Sale, open to the public beginning at 11:00 am.
- Dec 2&3 Holiday Open House, 11 am - 3 pm. Bring family & friends and share a holiday song as you take a ride around the Arboretum in a beautiful old-fashioned horse-drawn wagon. Children can make a natural bird feeder or participate in other activities sponsored by the Arboretum's Learning Center. As always, enjoy a delicious fresh sandwich or hot soup and a homemade holiday treat in the Tearoom.
- Dec 6-31 Festival of Trees Display, Auditorium during regular building hours. The auditorium will be transformed into a wonderful holiday display of over 15 fresh decorated evergreen trees. Each tree is decorated with handmade and natural materials (no lights) by various garden clubs, herb societies, and other non-profit groups in celebration of the holiday spirit.

Classes:

- Dec 5 Centerpieces for the Holidays, 10-noon, \$15/20
- Dec 9 Beeswax Candles and Crafts, 1-3 pm, \$25/35
- Dec 14 Create a Boxwood Tree Centerpiece, 10-noon, \$25/35
- Dec 16 Holiday crafts for all ages, 11-noon, \$10 per individual; \$20 per family.

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

MINNESOTA LANDSCAPE ARBORETUM

TWIG BENDER

Volume 13, #44, 12/1/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for December 3-9

December 1995						
S	M	T	W	T	F	S
					1	2
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SUN- **Minnesota Gardening**, 9 am & 9 pm, Channel 6 MCN, Minnesota Christmas Trees: Green and fragrant and Minnesota-grown.

MON- Final Exams begin through December 9

NOON DEADLINE - to sign up for Hort Dept. bowling party. Teams will be assigned and posted.

WED- GSC, 1:00 pm, 398 AlderH.

FCC, 2:00-3:30, 398 AlderH.

The 2nd Annual Minnesota Turf and Grounds Foundation Conference and Show & The 68th Minnesota Golf Course Superintendents' Association Annual Meeting, Minneapolis Convention Center, December 6, 7, 8.

THR- A Video Conference, Creating A Principle-Centered Learning Environment, presented by Covey Leadership Center, Inc. & sponsored by Epsilon Sigma Phi & co-sponsored by MES Staff Development, 10:30 am - 1:30 pm. Cost of the program will be \$15.00 per person. Contact EDS/Registrar, 405 Coffey Hall to register.

FRI- Environmental Hort Advisory Council, 1-3 pm, 375 BorH.

Hort Dept. Bowling Party, Student Center Games Room, 3:00-4:30. Teams will be posted across from mailboxes.

SAT- Reception for graduating students, President Nils and Pat Hasselmo will host. Call 627-6800 to attend.

CONGRATULATIONS TO OUR DECEMBER BIRTHDAYS:

Perrin Carpenter	Dec 2
Diane Witte	Dec 3
Elizondo Barron Jorge	Dec 5
P. David Gifford	Dec 7
Chris Hanson	Dec 17
Ami Beaver	Dec 19
John Carter	Dec 21
Mike Zins	Dec 23



PURCHASING PROBLEMS.....the accounting office needs your cooperation. You must fill out purchase orders in as much detail as possible, and have them signed in the department, before you take/send them to vendors. The accounting office must have the back two copies (blue and yellow) for our permanent records. Also, you should sign and date all packing slips when you receive your orders, and return them to the accounting office immediately. University policy specifies that we must maintain good records; audit requirements specify maintaining a paper trail that includes packing slips. Your easy access to purchase orders may become more cumbersome if we don't have your cooperation. Finally, when completing purchase orders please use the prefix "413" in the upper right-hand corner of your purchase orders; "413" differentiates us from all other departments at the U of M. If you have questions, please talk with Angie Klidzejs.

FOREIGN NATIONAL TAX TREATIES.....for 1996 are due in the Payroll Office by noon on December 29 for foreign national employees paid on the regular payroll, and December 22 for foreign national employees paid on the biweekly payroll. If you are eligible, see either Laura Kalisch or Patrice Johnson in the main office (305 AlderH).

HOLIDAY COOKIE EXCHANGE.....is Dec 18, noon-1pm, 394 AlderH. Sign up with Kathy Lloyd ASAP. Bring 11 dozen cookies (one dozen to share and 10 dozen to exchange).

HORT THERAPY INTERNSHIP.....Jean Larson, registered therapeutic horticulturist, is looking for students interested in completing a summer internship at the Minnesota Landscape Arboretum in Therapeutic Horticulture.

Who: Undergraduate students who are creative, independent, flexible, assertive, motivated, and energetic.

When: June-Sept. 1996, 5-20 hours per week.

Why: Therapeutic horticulture offers opportunities for all people, regardless of age or ability, to participate in the pleasures of gardening, while working on self-improvement in physical and mental skills. Plants become the vehicle for helping people heal and develop. Besides, it's fun!

What: Responsibilities could include: 1) Assistant facilitator of contractual horticultural therapy programs. 2) Primary facilitator of public programs. 3) Organizer of volunteers in public programs. 4) Assistance with sensory garden design and maintenance. 5) Assistance with administration of horticultural therapy programs.

How: You can simply volunteer for this internship by contacting Jean, or if you wish to receive UM credit, you can sign up for Hort 3097, Horticultural Practicum through your advisor.

For further information, please contact Jean Larson at 612-443-2460 ext. 527, or Dr. Anne Hanchek at 612-443-2460 ext 153 or 612-624-1706.

MAROON & GOLD CASUAL FRIDAYS

GO GOPHERS

TWIG BENDER

Volume 13, #45, 12/8/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for December 10-16

December 1995						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

MON- GLACE Meeting, 1:30 pm, 398 AlderH.

TUE- COAFES Faculty Conference, 8:15 am-6:00 pm, Radisson Metrodome, 615 Washington, S.E., Mpls.

WED- Growth Chamber Mtg, 8:00 am, 394 AlderH.
FCC Mtg, 10:30-12:00 noon, 398 AlderH.
Hort Faculty Meeting, 1:00, 394 AlderH.

FEATURE STORY.....In a recent copy of the American Nurseryman, "Putting Plants in Their Place", by Dr. James Calkins, there are photo shots of vines growing on the old Hort building. Please take note.

HORTOPPORTUNITIES is now available on the World Wide Web at <http://www.ashs.org>

CALL FOR PROPOSALS.....Burroughs Wellcome Fund, a new initiative to support interfaces between the Physical/Chemical/Computational Sciences and the Biological Sciences relative to graduate and postdoctoral training. Information is available from Evonne in the main office. DEADLINE....January 4, 1996.

ENDOWED FELLOWSHIP AWARDS FOR 1996-97.....is available for eligible students who are currently registered in the Graduate School. DEADLINE: March 8, 1996. FFI, contact Graduate School Fellowship Office.

CONGRATULATIONS TO OUR DECEMBER BIRTHDAYS:

Perrin Carpenter
Diane Witte
Elizondo Barron Jorge
P. David Gifford
Chris Hanson
Jim Calkins
Ami Beaver
John Carter
Mike Zins

Dec 2
Dec 3
Dec 5
Dec 7
Dec 17
Dec 17
Dec 19
Dec 21
Dec 23



BOWLING PARTY (8th) CANCELLED....hopefully we can re-schedule.

TWIG BENDER

Volume 13, #46, 12/15/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for December 17-23

December 1995						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>
24	25	26	27	28	29	30
31						

SUN- Minnesota Gardening, Channel 6 MCN, 9 am & 9 pm, Minnesota Christmas Trees: Green and fragrant and Minnesota-grown.

MON- Cookie Exchange, 12 noon, 394 AlderH. Tell Kath Lloyd what cookie you are bringing to the exchange so we don't have duplications. Bring 6 dozen wrapped in dozen sets and one dozen to snack on. If you wish you may bring you recipe to share. See you there.

Invitation to all COAFES faculty and staff innovators to **Skunk Works Open House**, 3-5 pm in 119 COB. Special guest appearance by Dean Mike Martin at 4 pm. Refreshments will be served. FMI contact Bonnie Pechtel, 624-3250, pecht001@gold.tc.umn.edu.

TUE- Department Bowling Party, 3-4:30, SPSC Bowling Alley. See posting on bulletin board to make sure you name wasn't excluded.

WED- End of the Year Party, 2:30 pm, Alderman Lobby. Potluck hor d'oeuvres or dessert. Also, bring 2 slips of paper: 1 that lists one good thing that happened to you this past year and 1 that lists a hope for next year.

LOOKING AHEAD.....University Holidays, December 25 & 26.

ARBORETUM HOLIDAY PARTY.....was cancelled on December 8 due to bad weather. However, the good news is that it is re-scheduled for January 5, same place, same time. The location is Camp Tanadoona, just a few minutes from the Arboretum on Hwy 41, a rustic spot with great ski trails and sledding hills (Just ask John Carter and Jerry Pierson who came last year) and a big lodge complete with fireplace. All this plus dinner, prizes, and fellowship for just \$11 per person over the age of six! Join us on January 5 for the Holiday Party! For a registration form, see Kathy Lloyd beginning Thursday, December 14 or call Anne Hanchek at 443-2460 x 153 for more information.

TWIG BENDER

Volume 13, #47, 12/22/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for December 24-30

December 1995						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
31						

MON- Merry Christmas - University Holiday

TUE- University Holiday

LOOKING AHEAD

January 3 & 17 - GSC will meet at 2 pm, 398 AlderH.

Jan 3 - Dept Seminar, Karl Sauter, PhD Candidate Seminar.

DEPT BOWLING PARTY COMPETITION.....the turkey coupons were won by the team of Bud Markhart, John Murray, Robert Quene, Wen-Ping Chen coming in with a team average of 299. Congratulations!

2nd Place Team	Chris Gran, Troy Carson, Betsy Zimmerman, Christi Holeman
3rd ▪ ▪	Vince Fritz, Dean Engelman, Steve Lund, Evonne Kuyper
4th ▪ ▪	Lance Barthel, Dave Olson, Mark Galatowitsch, Daniel Warnock
5th ▪ ▪	Roger Meissner, Jerry Pierson, Sue Wiegriefe, Martha Piechowski
6th ▪ ▪	Jim Calkins, Ken McNeil, Pam Sanders, Patrice Johnson
7th ▪ Tie with	Al Smith, Serena Sjolund, Pat Lawton, Angie Klidzejs Erik Thompson, Christina Guisler, Dali Tao

See you all next year, hopefully....Thanks to the Student Center Bowling Alley staff for a great time.

GRADUATE STUDENTS.....Torske Klubben Fellowships for Research/Study in Norway.....stipend of \$2,500 per quarter. Deadline is March 8, 1996. Contact Grad School Fellowship Office, 321 Johnston Hall, 625-7579.

MAKE-UP TRAINING SESSIONS AVAILABLE...the training program for the prevention of violence and harassment will be offering 6 training sessions for those unable to attend your department's scheduled sessions. These sessions will be held:

Mpls (East Bank)

Jan 24, 9-11 am

Feb 1, 9-11 am

Feb 7, 1-3 pm

Feb 15, 1-3 pm

St. Paul Campus

Jan 25, 1-3 pm

Jan 31, 9-11 am

To register, call 624-7845.

TOYS FOR TOTS PROGRAM....thanks to everyone in the department who participated. Over 400 toys were collected. Many children will be touched by this contribution. Thanks for everyone's hard work and have a great holiday season.....SPSC Board of Governors, Treena Schmidt.

!HAVE A HAPPY HOLIDAY!

THE FOLLOWING IS THE FAMOUS EDITORIAL WRITTEN FOR THE NEW YORK SUN
BY FRANCIS P. CHURCH, SEPTEMBER 21, 1897.

The Sun

PUBLISHED DAILY EXCEPT SUNDAY BY THE
SUN PRINTING AND PUBLISHING ASSOCIATION,
280 BROADWAY, NEW YORK, N. Y.
TELEPHONE, WORTH 10,000.

Directors and officers: Frank A. Munsey,
President; Wm. T. Dewart, Treasurer; R. H.
Titherington, Secretary.

Is There a Santa Claus?

We take pleasure in answering at once and thus prominently the communication below, expressing at the same time our great gratification that its faithful author is numbered among the friends of THE SUN:

"DEAR EDITOR—I am 8 years old.

"Some of my little friends say there is no SANTA CLAUS.

"Papa says, 'If you see it in THE SUN it's so.'

"Please tell me the truth, is there a SANTA CLAUS?

"VIRGINIA O'HANLON,
"115 West Ninety-fifth Street."

VIRGINIA, your little friends are wrong. They have been affected by the skepticism of a skeptical age. They do not believe except they see. They think that nothing can be which is not comprehensible by their little minds. All minds, VIRGINIA, whether they be men's or children's are little. In this great universe of ours man is a mere insect, an ant, in his intellect, as compared with the boundless world about him, as measured by the intelligence capable of grasping the whole of truth and knowledge.

Yes, VIRGINIA, there is a SANTA CLAUS. He exists as certainly as love and generosity and devotion exist, and you know that they abound and give to your life its highest beauty and joy. Alas! how dreary

would be the world if there were no SANTA CLAUS! It would be as dreary as if there were no Virginias. There would be no child-like faith then, no poetry, no romance to make tolerable this existence. We should have no enjoyment, except in sense and sight. The eternal light with which childhood fills the world would be extinguished.

Not believe in SANTA CLAUS! You might as well not believe in fairies! You might get your papa to hire men to watch in all the chimneys on Christmas eve to catch SANTA CLAUS, but even if they did not see SANTA CLAUS coming down, what would that prove? Nobody sees SANTA CLAUS, but that is no sign that there is no SANTA CLAUS. The most real things in the world are those that neither children nor men can see. Did you ever see fairies dancing on the lawn? Of course not, but that's no proof that they are not there. Nobody can conceive or imagine all the wonders there are unseen and unseeable in the world.

You tear apart the baby's rattle and see what makes the noise inside, but there is a veil covering the unseen world which not the strongest man, nor even the united strength of all the strongest men that ever lived, could tear apart. Only faith, fancy, poetry, love, romance, can push aside that curtain and view and picture the supernal beauty and glory beyond. Is it all real? Ah, VIRGINIA, in all this world there is nothing else real and abiding.

No SANTA CLAUS! Thank God! he lives, and he lives forever. A thousand years from now, VIRGINIA, nay, ten times ten thousand years from now, he will continue to make glad the heart of childhood.

TWIG BENDER

Volume 13, #48, 12/29/95, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS for January 1-6

January 1996						
S	M	T	W	T	F	S
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

MON- Happy New Year's Day - University Holiday

TUE- Winter Quarter begins.

PBS Colloquium, Molecular Genetic Analysis of Commelina Yellow Mottle Virus, Thesis Proposal, Chiu-Ping Cheng, PBS Graduate Assistant, 3:30 pm, 335 BorH.

WED- Dept Seminar, Selection for High Temperature Tolerance in the Laboratory: An Investigation in the Common Bean, Karl Sauter, PhD Candidate, 3:30 pm, 415 AlderH.

GSC, 2:00 pm, 398 AlderH.

Hort Club Meeting, 6:00 pm, 394 AlderH.

FRI- Maroon & Gold Casual Friday!

GRADUATE STUDENTS.....Torske Klubben Fellowships for Research/Study in Norway.....stipend of \$2,500 per quarter. Deadline is March 8, 1996. Contact Grad School Fellowship Office, 321 Johnston Hall, 625-7579.

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Feb 7, 1-3 pm

Feb 15, 1-3 pm

To register, call 624-7845.

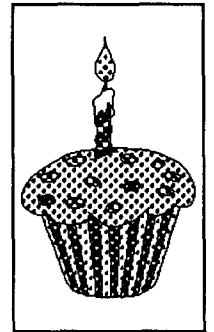
St. Paul Campus

Jan 25, 1-3 pm

Jan 31, 9-11 am

CONGRATULATIONS TO OUR JANUARY BIRTHDAYS:

Peter Ascher	Jan 4
Diana Lobien	Jan 10
Bert Swanson	Jan 14
Angie Klidzejs	Jan 16
Alan Smith	Jan 16
Roger Meissner	Jan 21
Patrice Johnson	Jan 23
Meghan Sinclair	Jan 24
Ken McNeil	Jan 29
Robleto Gustavo Alfredo	Jan 30
Kerry Strobe	Jan 30
Sue Wiegrefe	Jan 30



THE SAINT PAUL CAMPUS RESEARCH BROCHURE.....is available to publicize what we do and the significance of our research to the people of Minnesota. A sample will be placed in your mailboxes soon. Additional copies can be ordered.

UPDATE ON KERSTIN CONCIBIDO....Please pass on this information to anyone wanting to wish Kerstin Concibido a Froehliche Weihnachten. She has been transferred to Fairview Riverside Medical Center, 2450 Riverside Avenue, Mpls. Room 515. The nurses' station telephone number (to clear intended visits or confirm that she is still there, if the info is used later next month) is 672-4405. I hope people make a point of stopping by to say hello. It's no fun being in the hospital during the holidays! Thanks for helping to get the word out! Sue Wiegrefe

MINNESOTA LANDSCAPE ARBORETUM
Events & Classes for January, 1996
Call 443-2460, extension 106 for information

- Jan 4-30 1995 Arboretum Photo Contest Display, Snyder Building Lobby & Foyer. View the winners and entrants from the 1995 photo contest. Display open regular building hours.
- Jan 7 Family Fun: Pressed Flower Activity (indoors) 1-3 pm. This is the first of several winter programs designed to create activities, with the guidance of an Arboretum activity leader, that the whole family can do together. Snyder Building foyer. May be a minimal cost to cover materials.
- Jan 14 Travelogue: Sissinghurst: The Garden and the Garden Makers, 1:30-3:00 pm. Discussion on history and slide tour of the gardens of Sissinghurst in England built by Vita Sackville-West, the renowned English garden writer, and her husband Harold Nicolson. Speaker, Christy Dachelet is an Anglophile who travels to England several times a year to visit various gardens there. She is especially interested in garden history. No charge with paid gate admission.
- Jan 15 Martin Luther King Holiday Program: *Celebration of Plants Used in Different Culture*, 9-11 am. Auditorium. Investigate traditional uses of plants in the African American culture, the Japanese culture, and the Native American culture at Discovery Tables. Explore plants as uses for foods, music and art, and plant your own examples to take home. Take a volunteer-guided tour of the Japanese Garden in its winter serenity setting. Program, tour free with paid gate fees.
- Jan 21 Family Fun: Track Detective Hike (outdoors) 1-3 pm, Hike outdoors with an Arboretum activity director to find and identify animal tracks. Bring family or friends, dress for the weather, and enjoy a fun afternoon on the bog trail. Meet in the lobby. No additional charge.
- Jan 24&27 Volunteer Program Information Sessions, 10-noon.
- January 28 Travelogue: *Louisiana Dayride: Travels Beyond New Orleans*, 2:30-4 pm. Call Sandra Stevenson at 443-2460 ext 163.

Storytime Under Glass:

- Jan 11 In the Land of Dinosaurs, 11-11:45 am.
Jan 18 Fantastic Flowers, 11-11:45 am.
Jan 25 The Circle of Life, 11-11:45 am.

Classes:

- Jan 20 Creating Topiaries with Herbs 10-noon, \$30/40
Jan 26 Interior Landscape: Common and Unusual Houseplants, 10-noon, \$15/25

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

MINNESOTA LANDSCAPE ARBORETUM

TWIG BENDER

Volume 14, #1, 1/5/96, Editor: Martha Piechowski (m-piec@maroon.tc.umn.edu)

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

CALENDAR/NEWS for January 8-12

January 1996						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
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28	29	30	31			

MON- FCC 2:00-3:30pm (398)

AFSCME voting 11:30-1:30 (394)

TUE- PBS Colloquium 3:30pm (335 BorH) Ian Baldwin

WED- Growth Chamber Mtg (394) 8:00am

Faculty Meeting 1:00-3:00pm

Dept Seminar 3:30pm (Sinthya Penn)

EMPLOYEE career enrichment workshops starting in January. Please see bulletin board.

DEADLINE for senate consultative committee nominations is Wednesday, January 17, 1996. Nominations are for three-year terms and may come from any college. Make nominations in writing or by phone, citing the nominees' qualifications, to Martha Kvanbeck, Senate Office, 427 Morrill Hall, 100 Church Street SE, Mpls. 55455, (612) 625-9369, FAX: (612) 626-1609. senate@mailbox.mail.umn.edu.

CORRECTION to the Travelogue: Louisiana Dayride: Travels Beyond New Orleans on January 28 in last week's twig. The time is 1:30-3:00pm. The talk is by artist and writer Shelley Holl. She writes a weekly travel column for the New Orleans Times-Picayune.

STOP and see Kathy Lloyd today (Friday) to update and/or correct your name and address on the directory.

The University of Minnesota is proud to present the 15th annual Dr. Martin Luther King, Jr. Memorial Concert, Sunday, January 14, 8:00pm. Ted Mann Concert Hall, West Bank. Free and open to the public.

TWIG BENDER

Volume 14, #2, 1/12/965, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

MAROON & GOLD CASUAL FRIDAY

CALENDAR/NEWS for January 14-20

SUN- Dr. Martin Luther King, Jr. Memorial Concert, 8 pm, Ted Mann Concert Hall, West Bank, free and open to the public. Tickets required, 624-2345.

MON- University Holiday.

TUE- January Birthday Celebration, bring 1 doz cookies/bars/cupcakes, 2:30 pm, lobby. Coffee & ice cream provided.

PBS Colloquium, Diversity of Ascomycetes Associated with Arthropods. Convergence and Divergence of Sexual and Asexual Line, Meredith Blackwell, Louisiana State University, 3:30 pm, 335 BorH.

WED- UAC, 12:30 pm, 398 AlderH.

Dept Seminar, The effects of pressure infusing the biocontrol agent AB254 on sh-2 sheet corn seed emergence and infection by Pythium species, Curtis Reese, MS student, Dept. of Hort, 3:30 pm, 415 AlderH.

THR- GCB Seminar, Metabolic regulation of hepatic gene expression, Howard Towle, Dept. of Biochemistry, U of MN School of Medicine, 3:30 pm, 335 BorH.

FRI- Winter Quarter Faculty Assembly, 1-3 pm, 155 Earle Brown Center. 12 noon - Special Faculty Forum to discuss tenure, same room.

COAFES Scholarship Reception, 3:30-6:00 pm, EBC.

COAFES Transfer Student Visit Day. WANTED: one horticulture advisor to meet with 4 prospective students at 2:15. Call Evonne to volunteer, 624-4242.

January 1996						
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21	22	23	24	25	26	27
28	29	30	31			

CONGRATULATIONS TO OUR JANUARY BIRTHDAYS:

Peter Ascher	Jan 4
Diana Lobien	Jan 10
Brian Kovanda	Jan 10
Bert Swanson	Jan 14
Angie Klidzejs	Jan 16
Alan Smith	Jan 16
Roger Meissner	Jan 21
Patrice Johnson	Jan 23
Meghan Sinclair	Jan 24
Ken McNeil	Jan 29
Robleto Gustavo Alfredo	Jan 30
Kerry Strope	Jan 30
Sue Wiegrefe	Jan 30



Come for coffee and cookies & ice cream at 2:30 pm on **Tuesday, January 16** in the Lobby. Everyone who is not having a birthday is asked to bring 1 dozen cookies/bars/cupcakes.

PROUD PARENTS.....are Michelle and Jim Lutz on the birth of their firstborn, James Andrew Lutz, born January 6 and weighing in at 7 lb. 10 oz. Congratulations from everyone! Bring pictures!

FOR SALE.....Minn Vitro, a custom propagation service for the plant industry and research on contract for commercial and academic institutions. If interested, call Mike Tikkanen at 612-533-1932.

over

58TH TWIN CITIES REGIONAL SCIENCE FAIR.....is looking for judges in the categories: behavioral/soc.science, mathematics, engineering, microbiology, biochemistry, earth/space science, chemistry, zoology, physics, botany, computer science, environ.science, medicine/health. See Evonne to get a judges registration form or call 291-8159.

ANNOUNCING 1996 SUMMER UNDERGRADUATE RESEARCH in Science and Engineering Disciplines. Focus of program is 10 weeks of full-time laboratory or field research. Sign up to be a mentor for these undergraduates by contacting Sally Jorgensen, Coordinator for Life Sciences. Teaching Faculty please announce to your students: most program require completion of two years of basic college level course work and with a GPA of 3.3 or higher. Besides full-time laboratory or field research, there are activities such as seminars, workshops, presentations, and weekend activities. More information is posted in Alderman lobby bulletin board or by contacting Kitty Jones 625-2275. DEADLINE is March 1, 1996.

COMMISSION ON WOMEN AND THE MN WOMEN'S CENTER.....is asking for proposals for projects which further the goal of improving and enriching the working and learning environment for University women. Proposals are invited that respond to Minnesota Plan II: 1995-2000 recommendations, derived from interviews conducted last year to determine how well the University community increased its capacity to improve the climate for women since 1988. The sponsors encourage projects which secure matching funds from departmental units or other sources. Grants awarded up to \$1000. Applications welcomed from students, staff, faculty or from collaborative projects among these groups. Call Jessica Morgan at 626-8241. DEADLINE: February 12.

INVITATION TO NOMINATE A CANDIDATE....for the 1996 B. Y. Morrison Memorial Lecture, which is co-sponsored this year by ASHS. The Lecture is to be presented at the ASHS annual meeting in Lexington, Kentucky in October, 1996. The Lecture is a forum for a presentation on a topical issue or scientific trend in the plant sciences and their involvement in society. An important consideration is the nominee's involvement and contributions to horticulture and other plant sciences. An honorarium of \$2,000, a medallion, and expenses to attend ASHS meeting are provided as part of the Lectureship. To make a nomination, send the candidate's CV and a one-page letter explaining their contributions to horticultural science to: Kim Kaplan, Lecture Coordinator, ARS Information Staff, Room 448, 6303 Ivy Lane, Greenbelt, MD 20770. DEADLINE: March 15, 1996

ANNUAL TRAVEL AWARDS, 1995-96.....any female graduate students in Minnesota engaged in scientific research is eligible to apply for preference will be given to active members of Xi Chapter Sigma Delta Epsilon. The applicant should have limited other support for attending scientific meetings. Funds can be used for travel expenses and registration fees, not for room & board. A maximum of \$300 may be awarded but usual award is in the range of \$100 to \$200. See posting across from graduate student mailboxes. DEADLINE: February 16, 1996.

OFFICE OF HUMAN RESOURCES.....is offering several Training & Enrichment Opportunities for Winter and Spring Quarters of 1996. Information and registration materials are available through Laura Kalisch. The workshops offer a wide selection of topics ranging from 'Challenging group issues to working with change'. This is an opportunity for continuing education for all University employees. The workshops are fee but fill quickly so early registration is encouraged. Contact Laura Kalisch for more information.

TICKET TO YOUR FUTURE.....welcome to the NEW Employee Career Enrichment Program. The program offers career-related services to current employees and departments at the U of MN. Services include career development workshops, lunch bag seminars, individual consultations and career information referral. To receive a listing of current workshops: e-mail at csbutrng@maroon.tc.umn.edu or stop by to visit the University Technology Center, room 220 in Dinkytown (627-1041).

JANUARY 12 DEADLINE.....reminder to turn in your Gardner Review Questionnaire to Phil Larsen, 495 Borlaug Hall.

MAROON & GOLD CASUAL FRIDAY

MAROON & GOLD CASUAL FRIDAY

CALENDAR/NEWS for January 21-27

January 1996						
S	M	T	W	T	F	S
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<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>
28	29	30	31			

SUN- Minnesota Gardening, Channel 6 MCN, 9 am & 9 pm, House Plant Insects: Identification and control of common houseplant insects.

MON- Dept Faculty Consultative Committee, 2:00-3:30 pm, 398 AlderH.

TUE- Dept Graduate Studies Committee, 10:00 am, 398 AlderH.

PBS Colloquium, Reconstitution of the Rieske Fe-S protein and site-directed mutagenesis of electron transport in Cyanobacteria, Tovia Kallis, University of Wisconsin-Oshkosh, 3:30 pm, 335 BorH.

WED- Meghan Sinclair, department student secretary, celebrates her Golden Birthday. Congratulations!

Department Seminar, Teaching Teachers to Teach: The Bush Faculty Development Program on Excellence and Diversity in Teaching, Toni McNaron, Bush Program & Professor, Department of English, U of MN, 3:30 pm, 415 AlderH.

THR- GCB Seminar, Exploiting cell contact guidance in tissue engineering and regeneration, Robert Tranquillo, Dept. of Chemical Engineering & Materials Science, U of MN, 3:30 pm, 335 BorH.

FRI- Department Pot Luck.....everyone bring a dish to share, 423 Alderman, noon. Plates/plasticware provided.

GRAD FACULTY.....it is time to revise the Graduate School Bulletin. In doing so, our graduate faculty needs to look at courses they want dropped, and/or any changes to a course and submit these proposals to the Graduate Studies Committee by January 26. Thank you....Alan Smith, GSC Chair.

CHANGE TO SEMESTER.....a copy of the document describing the organization, process, implementation, schedule and major issues is available for your review. Check out a copy from Evonne if interested.

GREENHOUSE ELEVATOR.....in the headhouse is temporarily out of service due to a paint job. If you will be needing the use of the elevator, please contact Roger Meissner a day in advance.

ASHS STUDENT RECOGNITION AND AWARD NOMINATIONS..... 93rd ASHS Annual Conference, October 6-10, 1996, Lexington, Kentucky.

#1 - **E. Ted Sims, Jr. Memorial Scholarship.** Faculty should submit nominees to department head no later than January 26. Student must be a Jr/Sr status beginning Fall of award year, registered full-time (12 cr minimum), excellence in academic performance, participation in extracurricular activities relating to horticulture, commitment to the hort professor. A check for \$1,000 will be given to the recipient. This scholarship was established in 1991 by Margaret Richter Sims in memory of her husband, a professor of horticulture at Clemson University.

#2 - **Outstanding Horticulture Student Recognition.** Students enrolled in horticulture or a plant science/crop science department with an emphasis or major in horticulture should be nominated by a faculty member on the basis of their scholastic achievement, leadership activities, participation in campus/club activities, and services to their departments. Submit your nominee to the department head no later than February 9.

#3 - **Student Travel grants for the 1996 ASHS Annual Conference.** 40 travel grants of \$150 each will be awarded to student enrolled in horticultural science as a major course of study and *must have submitted an abstract to ASHS headquarters for either an oral or a poster presentation* at the Lexington, Kentucky meetings. See Evonne for application forms and criteria. Deadline: April 1.

OFFICE CLOSING JANUARY 22....130 Coffey Hall in order to move back into their area having completed the asbestos abatement and remodeling project. Contact the Registrar's Office in Minneapolis at 625-5333 if you have an emergency.

CALL FOR PRESENTATIONS....Suburban Prairies, Research, Management and Value. An informal meeting for everyone interested in the greater metro area prairies will be held March 21 from 1-5 pm at Hodson Hall. To register for the meeting and any questions, call Catherine Reed, Entomology Department, 624-3423 or e-mail, reedx012@maroon.tc.umn.edu. Deadline: February 9.

CONDOLENCES.....Dr. 'Tex' Frazier, a past President of the ASHS (1969) died December 26, 1995, in Portland Oregon. He instituted sweeping changes in the organization of ASHS which revitalized the Society. He was the founder and first President of the National Bean Improvement Cooperative which has had a vast impact in improving communication and cooperation throughout the bean research community world-wide. Tex bred the first true Bush Blue Lake beans which have now won wide acceptance for high quality.

MAROON & GOLD CASUAL FRIDAY

MAROON & GOLD CASUAL FRIDAY

CALENDAR/NEWS for Jan 28 - Feb 3

January/February 1996						
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11	12	13	14	15	16	17
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25	26	27	28	29		

TUE- Dept Scholarship Committee, 9:00 am, 398 AlderH.

Graduate Studies Committee, 10:00 am, 398 AlderH.

PBS Colloquium, Molecular and Ecological Underpinnings of Biological Control of Plant Diseases, Jo Handelsman, University of Wisconsin-Madison, 3:30 pm, 335 BorH.

WED- Dept. Undergraduate Affairs Committee, 12:30 pm, 398 AlderH.

Department Seminar, The U of M's grape breeding program and its cooperative efforts with viticulturists in Central and Eastern Europe, Peter Hemstad, Assistant Scientist, Dept. of Horticultural Science, Un of MN, 3:30 pm, 415 AlderH.

THR- Hort 3099, Senior Seminar, Trickle Irrigation - An Inexpensive and Effective Method of Irrigation, Lance Himmelwright, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

Dept. Civil Service Awards Committee, 1:00 pm, 398 AlderH.

GCB Seminar, Intracellular and intercellular trafficking in plants: what we can learn from virus movement?, Sondra Lazarowitz, Dept. of Microbiology, University of Illinois, 3:30 pm, 335 BorH.

TEACHING ENRICHMENT WORKSHOPS, Creating Effective Tests, February 1, 2:15-4:10 pm, 320 Coffman Union. Pizza with Profs, TAs and Technology: Requirements & Expectations, Feb 7, 12:15-1:30 pm, 315 Coffman. Grading Writing Assignments, February 21, 3-5 pm, 4th Floor Coffman Union, Campus Club West Wing. To register, call 627-4330 at least one week before the event or e-mail registration to t-enrich@gold.tc.umn.edu. Sessions are free to faculty and teaching assistants on the TC Campus. Limited space.

CONGRATULATIONS TO OUR FEBRUARY BIRTHDAYS:

Deb Brown	Feb 2
Serena Sjolund	Feb 4
Sue Galatowitsch	Feb 8
Daniel Warnock	Feb 13
Don White	Feb 15
Harold Pellett	Feb 17
Molly Trio	Feb 25
Debby Filler	Feb 27



E.F. INFANTE ANNOUNCES APPOINTMENTS....of Dr. Mark Brenner as Vice President of Research and Dean of the Graduate School and Dr. Nancy (Rusty) Barcelo as Associate Vice President for Academic Affairs with Special Responsibility for Minority Affairs and Diversity. Congratulations and best wishes to Mark in his continuing endeavors and welcome to Dr. Barcelo who comes to us from the University of Iowa.

KERSTEN CONCIBIDO UPDATE.....she was transferred to Courage Center on January 15. She can be in therapy anytime during the hours of 8-4:30 M-F. So the best visiting times would be all weekday evenings and Sat/Sun. Phone # 520-0300. Let's all remember to send our greetings to her at Courage Center, 3915 Golden Valley Road, Golden Valley, MN 55422. Thank you, Don Koza for this update

NEW BRIDE.....is Christina Holeman who was married to Greg Bruner on January 6. Congratulations and much happiness.

WANTED: POP BOTTLES.....please save your clear, rounded-bottom 2L pop bottles. Sue Galatowitsch's lab can use them for field work. Deposit them in the box in the civil service break room across from the mailboxes. Thanks. Steve Moe.

SAFETY AWARENESS PROGRAM.....Dan Siegler of Facilities Management and Risk Assessment will present a Safety Awareness Program for targeted personnel in February. We are required by both federal and state regulations to provide training on selected topics and to provide a workplace free of recognized hazards. Therefore, we will provide a training program on February 14, 1996 in 408 Hayes Hall. The Agenda is as follows:

8:30-10:00am Back Injury Prevention
10:00-10:15am Break
10:15-11:00 Animal Handling Techniques
1:00-2:00 pm Safe Farm Equipment Operation
2:00-2:15 pm Break
2:15-4:00 pm Working in Confined Space

Mr. Siegler would like to limit groups to 20 people if possible. The entire program will be repeated on February 22 and additional sessions will be scheduled if necessary. RCT members will provide sign-up sheets in your respective main offices and will check them for additional scheduling.

Who should attend from Horticulture? Anyone who will be operating a tractor, bobcat, tiller, etc. during this planting season should attend the Safe Farm Equipment Operation Seminar (1-2pm). Sign up sheet is located in the main office (305 Alderman) and if you have questions, contact Roger Meissner.

MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for February, 1996
Call 443-2460, extension 106 for information

- Feb 1 Storytime Under Glass: In the Rainforest, 11-11:45 am
Feb 4 Family Fun: Snow Candles, 1-3 pm, minimal charge.
Feb 10 Specialty Gardens Seminar: Woodland and Shady Gardens 8:30-2:15, St. Paul Technical College.
Feb 11 Travelogue: The Cloud Rainforest at Nusagandi in Panama, 1:30-3:00.
Feb 15 Storytime Under Glass: Hearts and Flowers, 11-11:45 am.
Feb 17 Chanhassen February Festival Fun Ski: 9:00 am
Feb 18 Family Fun: Winter Plant Identification Hike, 1-3 pm.
Feb 19 President's Day Holiday Program: Knott's Camp Snoopy Wilderness Wildlife Show, 8:30-2:15 pm.
Feb 22 Storytime Under Glass: The Snowy World of Winter, 11-11:45 am.
Feb 24 Specialty Gardens Seminar: Indoor & Outdoor Gardens, 8:30-2:15 pm, Hennepin Tech College, Brooklyn Park.
Feb 24 Community Greening Conference: Plants as a Catalyst for Change, 8:30 am, Hennepin Tech College, Brooklyn Park.
Feb 25 Travelogue: Apples Along the Silk Road: Collecting the Wild Fruits of Kazakhstan, 1:30-3:00 pm.
Feb 29 Storytime Under Glass: Is Anybody at Home?: Animal Habitats, 11-11:45 am.

Classes:

- Feb 2 Orchids in the home, 10-12 noon, \$15/25
Feb 13 Herbal Soap Workshop, 10-12 noon, \$25/35
Feb 17 Introduction to Orienteering, 10-12:30 pm, \$15/25
Feb 27 Plants for Winter Interest, 10-12 noon, \$15/25

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

MINNESOTA LANDSCAPE ARBORETUM

TWIG BENDER

Volume 14, #5, 2/2/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS Feb 4 - 10

February 1996						
S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

TUE- Greenhouse Committee, 8:15-10:00 am, 398 AlderH.

Hort 3099, Senior Seminar, Bonsai for Beginners, Marguerite Jaster, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

Dept Faculty Consultative Committee, 2-3:30 pm, 398 AlderH.

PBS Colloq, Determinants of mRNA Instability in Higher Plants, Pam Green, DOE PI Res Lab, Mich State U, 3:30 pm, 335 BorH.

WED- Growth Chamber Meeting, 8:00 am, 394 AlderH.

Dept Seminar, Container Fertility Management: Maximum Growth with Minimal Environmental Impacts, Jim Calkins, Post Doc, Dept. of Hort Sci, Un of MN, 3:30 pm, 415 AlderH.

Hort Club Meeting, 6 pm, 394 Alderman.

THR- Hort 3099, Senior Seminar, Container Production: Yesterday and Tomorrow, Mike Krueger, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

GCB Seminar, Phage exclusion enzymes: a bonanza of biochemical and cell biological reagents, Larry Snyder, Dept. of Microbiology, Mich State U, 3:30 pm, 335 BorH.

Hort 8066, Double Talk: Ultracyromicrotomy and Aquarium Plant Horticulture, Ken McNeil, PhD Candidate, Hort, U of MN, 4:05 pm, 394 AlderH.

DUE FEBRUARY 15th.....Faculty Plans & Accomplishments. Turn in your document to Evonne and make your performance evaluation appointment at that time. Thanks.....ek

KUDOS.....to Gustavo Alfredo Robleto who successfully completed his requirements and has earned his Master's Degree. Congratulations again!

HRC LAB EQUIPMENT DISCARDS.....Come and Get It! We are in the process of cleaning and organizing the Horticultural Research Center laboratory (Arboretum) in the 600 Building (1st floor). Some of the equipment is so old that we are hardly able to guess what it may be used for. If you think you have equipment in the lab that you still use or need; or if you just want to take a look and figure out if you have a use for some of these mystery items, stop over soon. If there is something you want to save, pull it off the table and store it. There is also some glassware. When you are finished, please initial the list hanging on the bulletin board above the table. Anything left on the table by Tuesday, February 13 will be disposed of. Thanks! Kathy Zuzek (474-6886), Jody Fetzer (443-2460 ext 338).

UNDERGRADUATE.....Joseph Shinoda Memorial Scholarship Foundation Awards for students specializing in some phase of Floriculture. The object of the awards is to encourage good students to enter the domestic floriculture field; therefore, applicants should intend to work in some phase of Commercial Floriculture in the United States after graduation. Application Deadline: March 30. See Mark Strefeler for application form.

UNDERGRADUATE.....Minnesota State Horticultural Society 10th District is offering three \$500 scholarships in 1996. Apply if your home residence is within the area served by the members of the Tenth District (Traverse, Grant, Douglas, Stevens, Pope, Big Stone, Swift, Chippewa, Kandiyohi, Lac Qui Parle, Yellow Medicine, Renville, Stearns, and Meeker Counties). Check Scholarship area on Alderman Lobby Bulletin Board for application forms.

POSITION ANNOUNCEMENT.....Coordinators for Summer Undergraduate Research Seminars in Life Sciences, temporary (5 hr/week for 10 weeks) June 10-August 6. Minimum Qualifications: graduate student/post-doc. Contact Sally Jorgensen, 5-2275 or see yellow posting on graduate student bulletin board.

JAZZY STUFF FROM THE GRADUATE SCHOOL WEB SITE..... you can check for grad faculty status, view Admission's country sheets, find the Grad School phone list, and a wealth of information that will soon be added. ADDRESS: <http://www.grad.umn.edu>.

GRADUATE STUDENTS.....to process committee substitutions, see Evonne for a new form from the Graduate School.

DEAD BATTERY AHEAD.....Millions of PC owners this year will learn the hard way that laptops aren't the only computers that run on batteries. Inside every DOS and Windows PC is a small battery that powers the time clock and maintains key technical information about the system (like the type of disk drives being used) even after you turn off the computer. When the battery dies, these settings are lost and the PC is rendered unusable until you replace the battery and reenter the start-up settings - settings few computer users know or could easily figure out. The problem is an increasingly common one because many of the factory-installed alkaline, lithium, and nickel-cadmium batteries put into use during the PC boom of the late 1980s and early 1990s are dying. Many last as little as two to five years, according to Tom Doyle, manager of Rayovac Corp.'s battery maintenance program. A clock that's losing time may signal a failing battery, though lithium batteries provide no such tipoff. Who to do? You can start by making a copy of the start-up settings, which are stored in a special memory area known as CMOS (for the complementary metal-oxide semiconductor that holds the memory). You can usually run a setup program and either write down the CMOS settings or print them out; several popular utility programs let you save them to a floppy disk. A new \$20 program called BatteryDisk from International Systems (312-222-1364) goes a step further. It copies the settings to a floppy and enters them automatically when you boot up your PC, enabling you to start your PC with a dead battery or even no battery at all. Mark Henricks, Newsfronts (2,96).

SENATE COMMITTEE ON DISABILITY ISSUES.....they are holding hearings to receive commentary on topics of academic program access (e.g. courses, degrees, programs, services), employment access and accommodation, and general questions and comments. The Twin Cities campus hearings are: 2/27, 11:30-1:30 Terrace A & B, SPSC or 2/28, noon-2 pm, Nolte Library, Nolte Center, Mpls Campus. The purpose of these hearings is to learn more about disability issues from the perspectives of faculty, staff, and students.

HOST FAMILIES FOR FARM FAMILY RECOGNITION.....if you will consider hosting a farm family on March 14, please contact Don Olson, 5-9292. You will be expected to attend the banquet with your farm family, house them overnight and prepare breakfast for them the next morning. Most of the families will be attending County Extension Day on March 15. **A volunteer from our department is needed to set up our Horticulture Display before the banquet (March 14) and staff it from 4-6:30 pm. See Evonne for details.**

GO HOCKEY GOPHERS

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 14, #6, 2/9/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS Feb 11-17

- TUE- U of MN Horticulture Club **Valentine's Day Sale**, SPSC, 8-6.
- Hort 3099, Senior Seminar, Horticulture for recreational therapy, Lori Klinker, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!
- PBS Colloq, The search for hometric gene homologues in basal angiosperms and Gnetales: a new source of evidence on the evolutionary origin of flowers, Michael Frohlich, University of Michigan, 3:30 pm, 335 BorH.
- WED- February Birthday Celebration, coffee/treats, 9:30 am, Alderman Lobby. It has been suggested that the birthdays persons from the month prior bring the treats. Please sign up in back hallway across from mailboxes.
- U of MN Horticulture Club **Valentine's Day Sale**, SPSC, 8-6.
- Hort Faculty Meeting, 1-3, 394 AlderH.
- Dept Seminar, Cover crops for weed control in establishment year strawberries, Charlotte Herman, Graduate Student, Dept. of Hort Sci, Un of MN, 3:30 pm, 415 AlderH.
- THR- Hort 3099, Senior Seminar, Orchids - the "new" houseplant, Laurie Evans, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!
- Hort 8066, Synopsis of repellents in wildlife management, Jim Lutz, 4:05 pm, 394 AlderH.
- GCB Symposium, The role of retinoblastoma in TGF β -induced apoptosis of hepatic cells, Clifford Steer, U of MN School of Medicine, 3:30 pm, 335 BorH.
- FRI- Transfer Student Visit Day, Pete Ascher, Advisor, 2:15 pm.

February 1996						
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SAFETY COMMITTEE.....Hazardous chemicals will not be stocked at the University Stores as of January 1, 1996. These chemicals will be provided by the Chemical Prime Vendor Contract. As inventory of hazardous chemicals at the University stores is depleted, each item will be cross-referenced to an equal item from this contract. U-Stores will continue to provide gas cylinders and alcohol. Please contact Steve Keeney (625-2508) or Lynn Hein (624-6543) with questions concerning this process or if you or your lab need a copy of this information. Cindy Tong

CONGRATULATIONS TO OUR FEBRUARY BIRTHDAYS.....coffee/treats served,. Wednesday, Feb 15, 9:30 am, Alderman Hall Lobby. January brings for February - sign up in back hallway by the mailboxes.

Deb Brown	Feb 2
Serena Sjolund	Feb 4
Sue Galatowitsch	Feb 8
Daniel Warnock	Feb 13
Don White	Feb 15
Harold Pellett	Feb 17
Molly Trio	Feb 25



CONGRATULATIONS.....to Sopheak Sim, who successfully completed the requirement for a Masters in Horticulture. Good Luck!

GRAD STUDENT TEA TIME.....Wed., February 15, 2 p.m., 394 Alderman. topics for discussion are: possible change of graduate program, 8000-level courses, any other concerns or interests. All graduate students housed in Alderman Hall are invited! Ami Beaver, Prez.

SOMETHING FOR THE TWIG....AN URGENT MESSAGE ACTUALLY.....The time has come, noise and dust fill the air in room 201 Aldh. The first batch of new growth chambers are, at the time of this typing, being shipped from Cleveland. Excitement abounds! Combined with this excitement is concern, in that there has been a lot of miscellaneous "stuff" left in room 201 that is getting in the way of progress. It would be much appreciated if groups, having used this facility, would send a person to 201 to seek out and remove anything loose gear belonging to your group. This will not only rescue your property but will also save the Chamber Elf from having to clean out such material. Hint: the Elf is indiscriminate and will toss any and all "Stuff" in the way without examination and with only slight pangs due to his being a confirmed packrat. Room 201 is scheduled to be back in service on or about March 18th, I will try to keep you all up to date on progress. And now for the other part of our holdings, the headhouse chambers. On April 27th, the cooling tower in the headhouse will be shut down for its removal and replacement. This tower, like that of Alderman Hall cools not only growth chambers but also all walk-in coolers in the headhouse. The headhouse will be without its cooling waters for about one month so we must make plans for materials stored in the coolers there. We were fortunate to have been able to have had Facilities Management's cooperation and financial help with this sort of situation in Alderman. They were able to have their people plumb a source of city water to cool chambers that we designated as being crucial to our work, such that they would operate as normal. This process takes time and money, we still have the time but must put our thoughts together soon to minimize the financial cost to select coolers that must stay on line to be shared by researchers in Hort. I would appreciate it if people, who have urgent need for refrigerated space in the headhouse, would contact me with a condensed version of their needs so I may work with F/M to provide funding and workers to meet our needs. Please reply by Feb. 23rd so that we can begin to plan and haggle for assistance for this one month shutdown. Dick Wenkel has already begun to examine his holdings such that they may be sorted, shipped or consolidated to minimize coolers needed. Thanks Dick!!! Please contact me ASAP, you need not wait until the 23rd. If I do not hear from your group I will assume that the cooler you are in is not needed and can be shut down or reassigned, in a material condensation maneuver. The headhouse tower will be down for about one month from April 27th, the new growth chambers should be ready for use sometime about July 8th. What fun, a new tower, new chambers, could one ask for any more?..... Don't ask! J. Thadius Toad, Esq., Chamber Elf, Department Toady, 4-4276, Olson024@maroon.tc.umn.edu ... Any time day or night.

NEW COURSE OFFERINGS.....Spring Quarter.

Hort 5091-Directed Studies/Urban Horticulture, Sec 2, 1800-2030, T, HckrH 111, Dr. Harold Tukey, a Hill Visiting Professor in the Department of Horticultural Science, U M, Call #621764. Meets Commodity (crop production) requirement for horticulture grad students and Graduate Topics requirement for MLA students.

PBio 5960-Molecular Plant-Microbe Interactions. Five outstanding scientists have agreed to come to Minnesota, lead in-depth discussions with graduate students and PMGI faculty/staff, and present research seminars during the Tuesday afternoon Plant Biology timeslot. Speakers include Barbara Baker (USDA-PGEC) April 2, Charlie Opperman (NCSU) April 16, Keith Davis (Ohio) April 30, Jeff Dangl (U of NC) May 14, and Chris Lamb (The Salk Inst) May 21. Please put these dates on your calendar.

MAROON & GOLD CASUAL FRIDAYS

GO HOCKEY GOPHERS

TWIG BENDER

Volume 14, #7, 2/16/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS Feb 18-24

SUN- **Minnesota Gardening**, Channel 6 MCN, 9 pm, Beekeeping: The benefits of bees and what is involved in keeping a hive.

MON- President's Day - NOT Official University Holiday.

TUE- Hort 3099, Senior Seminar, Minimizing Effects of Deer Browsing, Joseph Kunz, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

PBS Colloquium, Tiwanaka Ecosystems: 3500 years of human-environment interactions in the Bolivian Altiplano, Michael Binford, Harvard University, 3:30 pm, 335 BorH.

WED- UAC Meeting, 12:30 pm, 394 AlderH.

Dept Seminar, Repellents for Reducing Deer Feeding Damage to Woody and Herbaceous Plants, Jim Lutz, Graduate Student, Dept. of Hort Sci, Un of MN, 3:30 pm, 415 AlderH.

THR- Hort 3099, Senior Seminar, To be announced, Sheila Ennenga, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

Hort 8066, Research Proposal: Heat Tolerance in *Impatiens hawkeri*, Kerry Strobe, 4:05 pm, 394 AlderH.

GCB Symposium, The role of laminin and laminin receptors in ovarian carcinoma, Amy Skubitz, Dept. of Lab Medicine and Pathology, U of MN School of Medicine, 3:30 pm, 335 BorH.

CONDOLENCES.....to the family of Dr. Richard Goodrich who passed away February 12. The family has requested that memorials be sent to the Department of Animal Science.

TEACHING FACULTY.....please make an appointment with Evonne to have your course evaluated during the weeks of February 26-March 8.

CONGRATULATIONS.....to Curtis Reese, who successfully completed the requirements for the Master of Science in Horticulture. Curt has obtained a full time job with Dr. Senyu Chen at the Southern Experiment Station, Waseca, and will be working on soybean cyst nematode.

PHILIP C. HAMM MEMORIAL SCHOLARSHIPS of \$1,000 are available to graduate students in the plant sciences and related disciplines. Submit nomination to Dr. Mark E. Ascerno, Entomology, 219 Hodson Hall by March 18.

FULL-DAY SYMPOSIUM.....at the Minnesota Landscape Arboretum, Planting on the Edge: Plants, Soils, and Ethics, Friday, March 8, 8-4 pm. Registration is limited. Deadline is March 4. No telephone reservations. See Evonne in main Hort office for application form.

GO HOCKEY GOPHERS

MAROON & GOLD CASUAL FRIDAYS

February 1996						
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TWIG BENDER

Volume 14, #8, 2/23/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS Feb 25- Mar 2

February 1996						
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MON- FCC, 2-3:30 pm,
398 AlderH.

TUE- Hort 3099, Senior Seminar, Plants for Medicinal Uses, Jennifer Gillespie, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

PBS Colloquium, Investigating the functional domains of GLABRA2, a gene involved in trichome differentiation in Arabidopsis, Beth Kent, PBS Graduate Assistant Thesis Proposal, 3:30 pm, 335 BorH.

WED- Going away lunch for Meghan Sinclair. Noon, Khan's Mongolian Barbeque. RSVP to Evonne by Tues am. Meghan has graduated with a ICP degree from the University of Minnesota and will be moving to Green Bay where she has a hot job prospect. Congratulations and Best Wishes.

Dept Seminar, Ecological Consequences of Hybridization Between a Wild Species and Related Cultivar, Tami M. Van Gaal, Graduate Student, Dept. of Hort Sci, Un of MN, 3:30 pm, 415 AlderH.

THR- Hort 3099, Senior Seminar, Inspectors: Friends or Foe, Julie Kellogg, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

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

Hort 8066, Intracellular Signaling from Ras to Genes in Animal Cells, Wen-Ping Chen, 4:05 pm, 394 AlderH.

GCB Symposium, Flagellar assembly: a search for the function of microtubule caps, Bill Dentler, Dept. of Physiology and Cell Biology, University of Kansas, Lawrence, 3:30 pm, 335 BorH.

GOOD NEWS..... baby boy on Feb 13 to Steve and Gretchen McNamara. Congratulations!

VEG-NET.....this new home page can be found on the WWWEB at: <http://www.mes.umn.edu/~vegipm/> It will be updated three to four times per month and will contain the most up-to-date information on commercial vegetable pest management (insects, diseases, and weeds); as well as links to integrated pest management information from other states. For more information, contact Bill Hutchison, 612-624-1767.

ASK DELILAH ABOUT CYBERLOVE.....a regular Dear Abby for the online crowd, dispensing advice to the lonely and lovelorn from her home computer. People can make meaningful connections online because they judge each other not by their appearance, but by what they say. "It's safe for people to meet this way. e-mail: askdelilah@aol.com It's the new personals.

CALL FOR RESEARCH PROPOSALS.....small grant funds are available from the Perennial Plant Association (PPA) to be utilized for research in areas beneficial to the membership of the Association. Grants range from \$500 to \$4000. Deadline is June 1, 1996. Contact Stephanie Cohen, Temple University, 1602 Northview Blvd., Norristown, PA 19401 (610-275-9820).

SCHOLARSHIPS AVAILABLE TO STUDENTS.....

Agricultural Scholarship Program (2) \$500 to students in counties of Richland & Cass in North Dakota and Clay, Wilkin, Ottertail, Traverse, Grant, and Stevens in Minnesota. Deadline: April 1. Applications available in 277 Coffey.

Curtis Dearborn Memorial Horticultural Scholarship.....is being offered to a graduate student in some phase of horticulture. \$1,000 Deadline is June 1, 1996. See Evonne in 305 Alderman for an application.

WANTED RESEARCH ASSISTANT.....Spring & Summer Job Opportunity in Wetland Restoration. If you are looking for research experience and have an interest in plant biology and restoration, see this job posting on the lobby bulletin board or contact Rachel Budelsky at 5-5700 / bude0001@gold.tc.umn.edu to set up an interview. References requested.

CONGRATULATIONS TO OUR MARCH BIRTHDAYS.....

John Murray
Ginny Gaynor
Jerry Pierson
Leslie Yetka
Kersten Concibido

Mar 1
Mar 6
Mar 7
Mar 13
Mar 25



MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for March, 1996
Call 443-2460, extension 106 for information

- Mar 2 Specialty Gardens Seminar: Gardening with Herbs, 8:30-2:15, Normandale Community College.
- Mar 3 Family Fun: Nature Weaving Hike (indoors & outdoors) 1-3.
- Mar 7 Storytime Under Glass: Plant a Garden, 11-11:45 am.
- Mar 8 Planting on the Edge Conference: Environmental Ethics, 8-4:30 pm.
- Mar 10 Travelogue: Gardens of the Pacific Northwest 1:30-3pm.
- Mar 14 Storytime Under Glass: Native American Tales, 11-11:45 am.
- Mar 16 Your Emerging Gardens Seminars
- Mar 17 Family Fun: Spring Bird Hike 1-3 pm.
- Mar 21 Storytime Under Glass: Magical Seeds, 11-11:45 am.
- Mar 23&24 Sugarbush Pancake Brunch and Maple Tour, 9-1. Tickets in advance.
- Mar 28 Storytime Under Glass: In the Prairie, 11-11:45 am.
- Mar 30 Sugarbush Maple Tours, 11-3.
- Mar 30 Specialty Gardens Seminar: The Water Garden, 8:30-2:15, Hennepin Technical College.

Classes:

- Mar 9 Pruning Landscape Trees and Shrubs, 1-3 pm \$15/25
- Mar 14,21,28 Creating a Landscape Plan for your home, 6:30-8:30 pm, \$65/80.
- Apr 4,11,18 Vegetable Gardening, 1-3, \$15/25.
- Mar 17 Creative Uses with Annuals, 10-noon, \$15/25.

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

MINNESOTA LANDSCAPE ARBORETUM

CALENDAR/NEWS March 3-9

March 1996						
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SUN- Minnesota Gardening, Channel 6 MCN, 9 pm, Master Gardener Program: Learn about thousands of volunteers who have been trained to teach horticulture throughout Minnesota in this 19 year old extension program.

MON- PhD Defense Seminar, Doug Foulk, 2:00 pm, 415 AlderH.

TUE- Hort 3099, Senior Seminar, B & B Production: Seed to Sale, Dean Engelmann, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

PBS Colloquium, Genetic variation in the Mexican firs, Glenn Furnier, Dept. of Forest Resources, 3:30 pm, 335 BorH.

WED- UAC, 12:30 pm, 398 AlderH.

Dept Seminar, Weed Prevention: Priority Research for Alternative Weed Management, Nicholas Jordan, Dept. of Agronomy & Plant Genetics, Un of MN, 3:30 pm, 415 AlderH.

THR- Hort 3099, Senior Seminar, To Be Announced, Jason Spitzner, 11:15-12:05 pm, 415 AlderH. Everyone is welcome!

Hort 8066, Perceptions of Minnesota Prairie Plants in the Landscape, Perrin Carpenter, 4:05 pm, 394 AlderH.

CONDOLENCES.....to the family of Fernande Rodgers, who died on February 20 of cancer in New Orleans, LA at the home of her mother and stepfather. She was our former department Senior Accounts Assistant. Her mothers address is: Sammie Holmes, 7519 Pearl Street, New Orleans, LA 70118 or send written tributes to Kate Sandweiss, 2515 Lake Place, Mpls, MN 55405.

LEAP YEAR TRIVIAL PURSUITS.....

1. What is the name of the comic opera in which a 21-year-old man named Frederic unexpectedly finds himself "a little boy of 5" on his birthday through "a most ingenious paradox"?
 2. Who was the NFL Hall of Fame quarterback, born on Feb 29, 1940, who was known for his scrambling style and set NFL records for most career pass attempts, completions and touchdown passes?
 3. On Feb 29, 1940, the Academy of Motion Picture Arts and Sciences handed out its Oscar awards for 1939, reputedly the best year in the history of movies. What classic film won the award for Best Picture?
 4. Who is the American opera and concert singer, born on Feb. 29, 1928, who sang more than 800 performances at the Metropolitan Opera, beginning in 1950?
 5. Feb. 29 occurs once every four years. What other two events take place not only on the same schedule, but also in the same year?
 6. Name the actor, born on Feb. 29, 1936, whose most famous role was as the blue-collar father on the NBC-TV series, "The Facts of Life."
- TURN IN YOUR ANSWERS to Evonne on Monday, 3/4. You could win a million dollar torte (or maybe a pan of brownies) if you can answer all of these LEAP YEAR TRIVIAL PURSUITS questions correctly.

HORT FINAL EXAM SCHEDULE.....

Date/Time	Course - Exam Location	Instructor
March 11 1430-1625	Hort 1023 - HrG Classroom	D. Brown
March 12 1000-1200	Hort 1036 - "	E. Hoover
March 13 1030-1230	Hort 3001 - "	B. Markhart
March 13 1330-1530	Hort 3030 - 405 AlderH	B. Pedersen
March 13 1600-1800	Hort 3004 - 394 AlderH	A. Smith
March 14 1500 & 1815	Hort 1036 - HrG Classroom	P. Ascher
March 15 1600-1800	Hort 1036 - "	E. Hoover
March 15 1330-1530	Hort 3099 - 415 AlderH	A. Smith
March 16 0800-1000	Hort 5047 - 415 AlderH	B. Swanson

TWIG BENDER

Volume 14, #10, 3/8/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS March 10-16

March 1996						
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24	25	26	27	28	29	30
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MON- Last day of Winter Quarter classes.

TUE- FCC, 2-3:30 pm, 398 AlderH.

WED- Faculty Meeting, 1-3 pm, 394 AlderH.

THR- GSC, 1-2 pm, 398 AlderH.

March Birthday Celebration, 2:30 pm, Alderman Lobby. (Feb B'days sign up in back hall to bring treats.)

FRI- Accessing Your Tomorrow, 16th Annual County Extension Day, St. Paul Campus.

St. Patrick's Day Feed, 12 noon, 398 AlderH. Sign up with Kath Lloyd to participate.

HORT FINAL EXAM SCHEDULE.....

Date/Time	Course - Exam Location	Instructor
March 11 1430-1625	Hort 1023 - HrG Classroom	D. Brown
March 12 1000-1200	Hort 1036 - "	E. Hoover
March 13 1030-1230	Hort 3001 - "	B. Markhart
March 13 1330-1530	Hort 3030 - 405 AlderH	B. Pedersen
March 13 1600-1800	Hort 3004 - 394 AlderH	A. Smith
March 14 1500 & 1815	Hort 1036 - HrG Classroom	P. Ascher
March 15 1600-1800	Hort 1036 - "	E. Hoover
March 15 1330-1530	Hort 3099 - 415 AlderH	A. Smith
March 16 0800-1000	Hort 5047 - 415 AlderH	B. Swanson

CONGRATULATIONS.....to Dr. Doug Foulk who passed his Ph.D. exam on March 4.

ATTENTION GRAD STUDENTS.....(1) Submit your travel requests to Evonne for upcoming meetings no later than April 1 for Graduate Studies Committee consideration. Evonne has ASHS student travel grant forms which are also due by April 1. (2) Spring Graduate Student Orientation will be held on Wednesday, March 27. It will be held in Coffman Memorial Union's President's Room, Rm. 320. The program begins at 11:00 am and concludes at 3:00 pm. Please RSVP at 624-0666.

\$1.5+ MILLION AVAILABLE.....announced by the Minnesota Office of Environmental Assistance 1996 Grant Program. Project Areas: Waste & Pollution Prevention, Solid Waste Separation Grants, Waste Education Grants, Sustainable Communities, Market Development. For a copy of the RFP or general information on submitting a grant application, call the OEA at (612) 296-4517 or (800) 657-3843. DEADLINE: April 15.

GARDEN PLOTS FOR 1996.....attention Department of Horticultural Science members....the sign up sheet for garden plots for 1996 will be posted the week of March 25. If you are a student, staff, or faculty within the department you may request a garden plot. Plots are 25' x 25' or 12.5' x 25' and are assigned on a first come first serve basis. If you are going to be out of town during the week of March 25, feel free to have another department member sign you up. Happy Gardening. Daniel Warnock

REMINDER.....that Philip C. Hamm Memorial Scholarship nominations are due to Mark E. Ascerno no later than March 18. Nominations are limited to one per graduate program in the plant sciences or related disciplines.

over

GREENHOUSE NEWS.....by Roger Meissner

Pesticide Spraying Change from Saturdays to Fridays....starting Friday, March 8 and continuing every Friday afternoon starting at 5 pm. Pesticide application will take place in the greenhouse and no one except the pesticide applicator may be in the greenhouse complex during the pesticide spraying.

Greenhouse Sanitation.....I would to thank everyone for their efforts in keeping their greenhouse section clean. Remember the first part of a good pest program is strict sanitation. Also make sure your plants are watered well on Friday afternoons.

Greenhouse Student Staff Changes....I would to thank both Dean Engelmann and Brian Lawrence for their assistance during the past year. Dean has been covering weekend duties in the greenhouse, along with other duties and will now be re-assigned to the department's Display Garden. Brian has been assisting both Dean and the greenhouse staff in many miscellaneous projects. Brian will be leaving for the warmer climate of Georgia in hopes of landing a nursery job. Two students have been hired to take their place. Rachel Fields, a Hort Club member, will be tackling the weekend watering duties and Matt ?? will start next week and be assisting the greenhouse staff. Please welcome Rachel and Matt.

Winter/Spring Quarter.....reminder to winter quarter instructors that all plant materials must be removed from your greenhouse section(s) by March 17. Set up for spring quarter classes will start on March 18th. I would also like to thank the instructors and TA's of Hort 1036 for their cleanup efforts. The classroom was left cleaner than ever before. Thank You!

GREENHOUSE NEWS

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 14, #11, 3/15/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

CALENDAR/NEWS March 17-23

March 1996						
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24	25	26	27	28	29	30
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SUN- Minnesota Gardening, Channel 6 MCN, 9 pm, **Cool Season Vegetables**: Get an early start on your garden.

MON- Dr. Harold Tukey's arrival on campus.

TUE- Deadline for grades to Evonne by noon.

PhD Seminar, Putative predictors of high temperature tolerance: An evaluation of laboratory screening techniques using *P. Vulgaris*, Karl Sauter, 9:00 a.m., 394 AlderH.

Round Table Discussion, 2:30-4:30 pm, West Wing, Campus Club, sponsored by the Commission on Women's Civil Service/Bargaining Unit (CSBU) Women's Initiative. Part I includes panel presentations on Secretaries' Networking Group, Rock Your Reality Program, and Univ. College/Continuing Education & Extension Women's Council. Part II will discuss Improving the Climate for CSBU Staff.

FRI- University Floating Holiday - everything closed down.

COURSE CANCELLATION.....Hort 1010 and 5034 have been cancelled for Spring Quarter, 1996 only. Students who needed to take Hort 5034 this spring should see Mark Strefeler. Hort 5026 will NOT be offered Fall 1997. Student are encouraged to take it Fall 1996.

ROOM CHANGE.....for Hort 5091, section 2, Dr. H. Tukey, from Haecker Hall to 302 Kaufert Hall (two buildings NW of Alderman).

DIALOGGERS TOASTMASTERS.....persons interested in improving their public speaking skills in a supportive setting are encouraged to visit and join the local chapter of Toastmasters International. The "Dialoggers" meet each Thursday from 11:30-12:30 pm usually in room 203 of the NC For Exp Sta, 1992 Folwell Ave., St. Paul Campus. FFI Mark Nelson 649-5104.

WELCOME.....to Ben Erickson, our new student worker in the main office. Ben is a Finnish & Scandinavian Liberal Arts major and started on Feb 12. Come introduce yourself to Ben.

ELIMINATION.....of October national testing date for the paper and pencil administration of the GRE general test. The alternative is for students to take the Computer-Based Test (CBT). Currently the CBT is offered the first full week of each month. In addition, students will be permitted to retake the CBT every two months, instead of the current six months. The cost of the CBT will remain \$96, while the cost of the paper and pencil general test will increase from \$64 to \$80. Most testing sites in the US are located at Sylvan Technology Centers. You may wish to call Educational Testing Service (ETS) directly at 609-951-6506.

ATTENTION GRAD STUDENTS.....National Meetings/Symposia for 1996 . .
(1) Submit a letter of travel request (along with a budget page of estimated expenses) to Evonne meetings no later than April 1 for Graduate Studies Committee consideration. Evonne has the ASHS student travel grant forms which are also due by April 1. (2) Spring Graduate Student Orientation will be held on Wednesday, March 27. It will be held in Coffman Memorial Union's President's Room, Rm. 320. The program begins at 11:00 am and concludes at 3:00 pm. Please RSVP at 624-0666.

REMINDER.....Philip C. Hamm Memorial Scholarship nominations are due to Mark E. Ascerno no later than March 18.

MARCH IS WOMEN'S HISTORY MONTH.....the USDA Forest Service, North Central Forest Experiment Station, Federal Women's Program is hosting Andrea Platt Dwyer and Betsy Dwyer to present Bringing Beijing Back, Tuesday, March 19, 2-3 pm, North Central Forest Experiment Station, 1992 Folwell Ave. St. Paul Campus, Zon Conference Room, 2nd floor. Andrea, her mother, and daughter Betsy, were part of a trigerational delegation attending the UN Fourth World Conference on Women in Beijing. Andrea and Betsy will talk about their experiences at the conference, how it affected their

lives, and is leading to new opportunities and insights. Andrea is the Associate Director of the Upper Midwest Women's History Center, a nonprofit organization that promotes knowledge and awareness of women's international history and culture. Betsy is a 17-year-old student at Highland Park High School in St. Paul. FMI, contact Nancy Freeman, 649-5202.

TAKE OUR DAUGHTERS TO WORK...is Thursday, April 25, 1996

SOLICITING TEXT AND REFERENCE BOOKS..... for use by undergraduate students at Agadir. A list of books that would be most useful is posted across from the faculty mailboxes. International Ag Programs will help with the shipment. Contact Steve Clark.

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 14, #12, 3/21/96, Editor: Martha Piechowski (m-piec@maroon.tc.umn.edu)

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

CALENDAR/NEWS March 25-29, 1996

WED - FCC 10:30 - noon, 398 AldH

Kermit Olson Lecture - *Urban Horticulture, The New Science of Plants in Cities* by H.B. Tukey, Jr., 3:30 p.m.,
33 McNeal Hall

REINSTATEMENT of October GRE General Test. Due to the outcry from graduate schools across the country, the Educational Testing Service has reversed its decision to eliminate the October paper and pencil national testing date for the GRE general test as stated in last week's Twig Bender.

ROOM CHANGE for Hort 5091, section 2, Dr. H. Tukey, from Haecker Hall to 302 Kaufert Lab.

PART-TIME EMPLOYMENT 8 to 12 hr./week beginning in May and running until Mid-September. Maintenance of a large prairie garden near Lake Calhoun in Minneapolis. Salary \$9.00/hr. For more information, contact Ms. Jane Greenberg at 6-2299.

NEW WEBSITE: TravelWeb was developed by the University of Minnesota Travel Services Office to help faculty, staff, and students arrange safe, cost effective travel while on University business. Whether you are looking for an automobile to drive

around town or reserving a room for a faculty conference in Casablanca, TravelWeb contains features that will inform or assist you. As an extra bonus, these features were developed to comply with state law, federal law and University policy. Now you can comply with laws and policies without having to read them. TravelWeb's WWW address is:
<http://test.finop.umn.edu/travelstuff/travelmap.html> Angie Klidzejs.

The concluding memorial service for Fernande Rodgers will be on Tuesday, March 26. Anyone wishing details on this service may contact Robert Quene at 4-0736 or 824-1792.

Tomorrow is a holiday. Have a good day!

APRIL IS HORTICULTURAL AWARENESS MONTH

CALENDAR/NEWS March 31 - April 6

April 1996						
S	M	T	W	T	F	S
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
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21	22	23	24	25	26	27
28	29	30				

TUE- GLACE Meeting, 9:30 am, 398 AlderH.

WED- Growth Chamber Meeting, 8 am, 394 AlderH.

Department Seminar, Title to be announced, Steve Laursen, College of Natural Resources, 3:30 pm, 415 AlderH.

NEW TEXT IN OUR LIBRARY.....(room 398 AlderH). Andersen Horticultural Library's Source List of Plants and Seeds, a comprehensive listing of plants and seeds in North America, new 4th edition. See Evonne Kuyper in main office to check out this book.

CONGRATULATIONS TO OUR APRIL BIRTHDAYS.....

Chris Gran
Jan Backlund
Cindy Herring
Peter Olin
Joe Riehle

Apr 9
Apr 10
Apr 16
Apr 16
Apr 27



HORT 8066 DISCUSSIONS IN HORT RESEARCH.....will meet Spring Quarter in 394 Alderman at 4:05 pm. Hort 8066 provides a forum for everyone in the department to present ideas or issues in an informal and interactive setting. It is intended to allow new students housed in this department (regardless of graduate program) an opportunity to present a research proposal early in their graduate program. There are dates available in Spring Quarter for research proposals or other topics. I encourage all students that have already given a research proposal to give another discussion to update the department on progress and to receive helpful criticism as your project continues. I also invite faculty, staff, and post-docs to lead a discussion on issues in Horticulture or to present a research proposal that outlines future plans. You do not have to be enrolled in the class to attend and participate in the discussion. Please leave Thursdays open on your schedule at 4:05 so you may attend. See Alan Smith, 356 Alderman, 624-9290, if you would like to lead a discussion.

UPCOMING LECTURES.....

Hamm Memorial Lecture, Professor J. S. Heslop-Harrison, Karyobiology Group, John Innes Centre, Norwich, England, May 14, 3:30 reception, lecture to follow, location to be announced.

Graduate School's Guy Stanton Ford Memorial Lecture, French geophysicist Vincent Courtillot, May 16, 10:15 am, 150 Physics Bldg, East Bank Campus.

TAKE OUR DAUGHTERS TO WORK.....Thursday, April 25.

SEEKING ROOMMATE...to share spacious, newly remodelled 2 BR, 1st level home in NE Mpls, available immed, prorated for April \$275 mo/+ utilities, \$200 deposit. Contact Sarah @ 782-8622.

MAROON & GOLD CASUAL FRIDAYS
(don't forget)

MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for April, 1996
Call 443-2460, extension 106 for information

- Apr 13 Lifting of the Roses, beginning at 8 am.
Apr 13 Specialty Gardens Seminar: Perennials in the Landscape,
8:30 am to 2:15 pm, St. Paul Technical College
Apr 26 Arbor Day Observance, 12:30 pm, help celebrate with a
ceremonial tree planting at the Arboretum along with the
Children's Learning Center, the Minnesota Nursery and
Landscape Association and Chanhassen Mayor Don
Chmiel.

Classes:

- Apr 6 Pruning and Training Fruit Trees, 1-3 pm, \$15/25
Apr 18 Turf for the Home Landscape, 10-noon, \$15/25
Apr 24 Introduction to Prairie Plants, 10-noon, \$15/25
Apr 25 Plant Combination for Containers, 6-8 pm, \$15/25
Apr 27 Garden Insects: The Good, The Bad, The Ugly, 1-3 pm,
\$15/25

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

MINNESOTA LANDSCAPE ARBORETUM

APRIL IS HORTICULTURAL AWARENESS MONTH

CALENDAR/NEWS April 7 - 13

April 1996						
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

SUN- Minnesota Gardening, 9 pm, Channel 6 MCN, **Spring Lawn Care & Fertilization: Learn Environmentally-safe ways to have a great lawn.**

Sunday Brunch at the Minnesota Landscape Arboretum , the first Sunday of each month, served from 11 am - 2 pm, adults \$12.95, children under 12 \$6.95.

MON- FCC, 398 AlderH, 3:30-5:00 pm.

TUE- GLACE meeting, 3 pm, 398 AlderH.

WED- Hort Faculty, 1-3 pm, 394 AlderH.

Hort Seminar, Tree Care Advisor Program: It's conception, accomplishments, status and future, Gary Johnson, Dept. of Forest Resources, 3:30 pm, 415 AlderH.

THR- GSC, (*brownies complements of Al Smith*) 1-2:30 pm, 398 AlderH.

Hort 8066, Research Proposal: I. Ecotypic variation of Minnesota little bluestem. II. Effects of seeding date on establishment of four prairie grasses in Minnesota, Virginia Gaynor, 4:05 pm, 394 AlderH.

PART-TIME EMPLOYMENT.....8 to 12 hr/wk beginning in May to mid-Sept. Maintenance of a large prairie garden near Lake Calhoun in Minneapolis. Salary \$9/hr. FFI, contact Ms. Jane Greenberg at 612-626-2299.

WANTED: PRINTER.....Dr. Harold Tukey, our Hill Visiting Professor, is in need of a printer to use during Spring Quarter. Please contact Laura Kalisch if you can help.

GREENING THE GREAT RIVER PARK.....are sponsoring a volunteer planting and needs OUR HELP to dig holes, plant trees, shrubs, and wildflowers, spread mulch, and water plant materials in the Mississippi River Valley across from downtown St. Paul. Saturday, April 27 from 9:30-1:30 rain or shine! There is a sign up across from faculty mailboxes. Let's make April a **Horticulture Awareness Month**. FFI - John Carter.

THE MINNETONKA CHORAL SOCIETY....under the direction of Jere Lantz, invites us to join them as they explore and capture the soul of America's past in "I Hear America Singing." In the words and music of more than two centuries, from the cradle of liberty to the world power of today, the mosaic masterpiece of our nation's history is sung as you have never heard it before. St. Bartholomew Catholic Church (Wayzata Blvd & Broadway, Wayzata), Sunday, April 21, 4 pm, tickets at the door: \$7.50; \$5.00 seniors/students..... Anne Hanchek.

MAROON & GOLD CASUAL FRIDAYS

APRIL IS HORTICULTURAL AWARENESS MONTH

CALENDAR/NEWS April 14-20

April 1996						
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SUN- COAFES Family Day, Dean's Convocation at 1 pm, B45 COB, self guided tours from 1:45-3:30, ice cream by Food Science will be served in the lower level of COB. College of Vet Med's Annual Open House from 11 am - 5 pm. Come explore St. Paul Campus.

TUE- GLACE Meeting, 9 am, 398 AlderH.

WED- University Counseling & Consulting Services presents "So you want to get out of Graduate School before you're 90", **noon** session on strategies grad students can use to communicate with their advisor, Dale Shepherd Rm of Campus Club, refreshments provided, 624-3323.

Dept. Seminar, Characterization of proteins encoded by tapetal-specific genes in tomato, Ken McNeil, Graduate student, Horticulture, 3:30 pm, 415 AlderH.

THR- Public Relations Committee (Ascher, Brown, Erwin, Kuyper, McNeil, Pedersen, Zins), 1:30 pm, 398 AlderH.

Hort 8066, Research Proposal: Herbicide affects on containerized herbaceous perennials, Shannon Henrickson, 4:05 pm, 394 AlderH.

FRI- A Conference for Graduate & Professional Students and College & University Faculty, Is Graduate Education Preparing the Future Faculty? 9-4:30, Coffman Memorial Union, registration forms available from Evonne in Hort Office. See posting across mailboxes.

GREENING THE GREAT RIVER PARK.....are sponsoring a volunteer planting and needs OUR HELP to dig holes, plant trees, shrubs, and wildflowers, spread mulch, and water plant materials in the Mississippi River Valley across from downtown St. Paul. Saturday, April 27 from 9:30-1:30 rain or shine! There is a sign up across from faculty mailboxes. Let's make April a **Horticulture Awareness Month**. FFI - John Carter.

DATES TO RESERVE ON YOUR CALENDAR.....

- April 24 - 5th Annual Lab Fest, 10am-3pm
- April 25 - Board of Regents' Open Forum on the University Budget and Discussion on the Presidential Search "Statement of Desired Leadership Characteristics", Cowles Auditorium, Humphrey Center, 2-4:30pm. (Posting across from faculty mailboxes)
- May 9,10,11 - Hort Club Spring Plant Sale
- June 8 - President Nils and Pat Hasselmo will host a reception for graduating students and their families at Eastcliffe.

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 14, #16, 4/19/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

April 1996						
S	M	T	W	T	F	S
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28	29	30				

- SUN- Minnesota Gardening, Channel 6 MCN, 9 am, Butterfly Gardening: What to plant to attract butterflies and butterfly larvae in your garden.
- MON- FCC to review faculty performance documents, 1:00-???, 398 AlderH.
- TUE- PBS Colloquium, Determining the movement function of Commelina Yellow Mottle Virus, Iris Goldstein, PBS Graduate Assistant Thesis Proposal, 3:30 pm, 335 BorH.
- WED- UAC, 9 am, 398 AlderH.
- Civil Service Employees are reminded of Handling Change in the Workplace workshop, 10-noon, 310 AlderH.
- Lab Fest '96, 10-3, Radisson Hotel Metrodome on Washington Ave, Mpls Campus.
- Dept. Seminar, A Hint of Summer: A Walk Through the Trial Gardens, slide presentation by Robert Quené, 3:30 pm, 415 AlderH.
- THR- Hort 8066, Research Proposal: Genetic variability and response to heat stress in golf course populations of annual bluegrass (*Poa annua* L., 4:05 pm, 310 AlderH.
- Ms. Foundation for Women sponsors, Take Our Daughters to Work, age 9-17. The U of MN welcomes young women to campus to learn about higher education and the work world. Theme is "Vote for Me" - let's give young women our vote of confidence! 625-9837
- SAT- Greening the Great River Park Volunteer Planting, 9:30-1:30, rain or shine. There's still time to sign up (back hall bulletin board).

GOODBYE AND GOOD LUCK PARTY.....for Anne, Fran and Patrick Hanchek who will be moving to Portland, Oregon in mid-June. Please join in for food, fun and fellowship on Friday, May 31 from 4:30-8:30 pm at the Minnesota Landscape Arboretum Auditorium. Bring: appetizer, salad, main entree, or dessert. RSVP to Shirley Mah Kooyman at 443-2460 ext. 566 or Deb Brown 624-7491. Gift donations are being accepted by Jean Larson, 443-2460 ext. 527.

1996-97 HORT CLUB OFFICERS:

President - Julie Boldt
V.President - Rachel Fields
Secretary - Lori Klinker
Treasurer - Terry Nennich
UAC Rep - Heather Kaehler & Candy Barthel
Historian - Mandy Crompton
GH Coord - Sara Radman
Faculty Adv - Al Smith

Congratulations!

\$200 SCHOLARSHIP FUND SET ASIDE FOR 1996.....students interested in applying for the scholarship sponsored by the Iris Society of Minnesota should see Evonne in the main office for an application form. Preference will be given to those applicants having a specific interest in irises and a related project in mind. Deadline: June 1.

INTERN POSITION.....the Community Design Center of Minnesota is seeking an intern to assist in the planning and implementation of two organic neighborhood gardens in St. Paul. The duration of position is 4-5 months, 20/hrs week, stipend \$4000. Scheduling is flexible. Students can read the details on the job board in Alderman Hall Lobby. Contact person is Ruth Murphy at 228-7073.

DEPARTMENT TID BITS....(1) Remember to close windows in the building when you leave for the day (especially the conference rooms after your meetings). (2) There is a supply of greeting cards (get well, sympathy, welcome, congratulations, thank you, b-day & anniversary) in the main office for use. These are to be used for departmental business....please see Evonne in the main office. (3) If you have corrections to the new 1996 Dept Directory, please e-mail corrections to Kath Lloyd (lloyd002@maroon.tc.umn.edu)

DEADLINE.....for Outstanding New Graduate Student Award is April 24.

EDITOR NOTE: if you are not, and would like to receive the twig bender electronically, please e-mail me your address (kuype001@maroon.tc.umn.edu).

NEW WWWEB.....looking for Environmental Resources? Search SEEK on the World Wide Web at: <http://www.seek.state.mn.us>. The SEEK directory contains abstract and connections to curriculum materials, resource people, videos, printed materials, classes, exhibits, speakers, software and much more. From the MN Office of Environmental Assistance.

APRIL IS HORTICULTURAL AWARENESS MONTH

FRIDAY IS MAROON & GOLD CASUAL DAY

DIG IN AND GET WITH IT

LOOKING AHEAD.....

- May 1 - Central Steam Shutdown, planned maintenance.
- May 1 - National Anxiety Disorders Screening Day
- May 1 - Student Services Center/Office of the Registrar OPEN HOUSE, 130 Coffey Hall
- May 9,10,11 - Hort Club Spring Plant Sale. Come shop for annuals, perennials, hanging baskets, herbs, vegetables, and more.

TWIG BENDER

Volume 14, #17, 4/26/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

April/May 1996						
S	M	T	W	T	F	S
<u>28</u>	<u>29</u>	<u>30</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

MON- Plant Release Committee, 2:30 pm, 394 AlderH.

WED- Central Steam Shutdown - Planned Maintenance, 5 am to 10 pm.

Open House, Student Services Center and Office of the Registrar, St. Paul, 2-4 pm, 130 Coffey Hall. Refreshments, door prizes, demo of U Web Page.

Dept. Seminar, The effect of flower color on preference, interpretation and use of cut flowers, Julie McGrew, Grad Student, Hort Sci., 3:30 pm, 415 AlderH.

Hort Club Meeting, 4 pm, headhouse. Come help plant trees and herbs for their spring plant sale. Bring your own meat for a grill-out, everything else supplied.

National Anxiety Disorders Screening Day, 5:30-7:30 pm, Boynton Health Service, 624-1444.

THR- Hort 8066, Research Proposal: In vitro Tuberization of Potato, Abdellah Radouani, 4:05 pm, 310 AlderH.

HORT GARDEN PLOT UPDATE.....due to the cool wet spring. the garden plots probably will not be available for planting prior to May 15. If you have not turned in your contract or paid your plot fee, please do so ASAP. Thanks....Daniel Warnock, Garden Plot Coordinator.

RETIREMENT LUNCHEON.....for St. Paul Campus Employees, May 21, Earle Brown Center, \$6.00 ticket. See Laura Kalisch in the Hort Office.

NEW LIFE AROUND ALDERMAN.....come see Brad Pedersen's Landscape Design and Implementation class working on our 'Alderman Arboretum' (Hort 3040 Lab is Thurs 1010-1625). The west side of Alderman is getting a makeover. Design & Implementation by our students. Fun to watch.

WE'RE PROUD.....of Mary Peterson, who has received national recognition from the American Society of Horticultural Science as University of Minnesota's Outstanding Horticulture Student. Her picture, along with other outstanding students from around the U.S., is featured in the April issue of ASHS Newsletter. Check it out! Congratulations Mary!

AABGA ANNOUNCES STUDENT TRAVEL AWARDS.....application form, references, transcript and letter of application is due by June 3. While there will be no 1996 Midwest Regional Meeting, you are invited to attend the Northeast (Niagara Falls Botanical Garden, Niagara Falls, ON, October 3-5, 1996), Southwest (National Wildflower Research Center, Austin, TX, September 27-29, 1996) or Intermountain (Rio Grande Botanic Garden, Albuquerque, NM) Meetings, whichever is closer to your residence, in the fall. All meetings fees will be covered by the Award, a stipend of \$150 will be granted to cover travel and lodging. The Award is open to full-time undergraduate and graduate students in good academic standing at an accredited two- or four-year institution. A minimum of 3.0 in major courses and at least one semester or quarter remaining before graduation. See Evonne in 305 Alderman for an application.

BI-WEEKLY PAYROLL CONVERSION PROJECT.....twenty information sessions will be held on the Twin Cities Campus for employees currently on regular payroll regarding the conversion to biweekly payroll September, 1996. Sessions will include information for employees regarding their net pay, deductions, loans, and payment schedule.

DEADLINE.....for annual conference proposals extended to May 3.

MAROON & GOLD CASUAL FRIDAYS

Have a good weekend!

TWIG BENDER

Volume 14, #18, 5/3/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

May 1996						
S	M	T	W	T	F	S
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- SUN- Minnesota Gardening, Channel 6 MCN, 9 am, Living with Wildlife: How to deal with pesky wildlife - squirrels, skunks, moles and bats, around (and in!) your home.
- MON- Doctoral Defense Seminar, Molecular analysis of tetrad dissolution in tobacco anthers, Paul Bucciaglia, PBS Graduate Program, 9 am, 306 BorH.
- TUE- PBS Colloquium Seminar, Telomere-Associated Proteins in *Saccharomyces Cerevisiae*, Jodi Lew, PBS Graduate Assistant Thesis Proposal, 3:30 pm, 335 BorH.
- Collaborating research between industry and academia, sponsored by graduate students in Plant Pathology, come find out how industry impacts graduate education and research, 8:15-4:00, SPSC Theater.
- WED- UAC, 9 am, 398 AlderH.
- Faculty Meeting, 1-3 pm, 310 AlderH.
- Dept. Seminar, Biological control in greenhouse conservatories, Ken Yliniemi, Assistant Scientist, Plant Biology, 3:30 pm, 415 AlderH.
- THR- Hort Club Plant Sale begins, 8-8, tent by Bailey Hall (3 days). See article.
- Summer Session registration begins for academic year students.
- GSC, 1:00 pm, 398 AlderH.

GOODBYE WINTER CHILI PARTY.....come and join in for this farewell at 12 noon on May 9th. Meet in Shirley's Kitchen (369). Those bringing chili should come early to get it ready. Sign up in back hall.

HORT CLUB SPRING PLANT SALE.....May 9 & 10 from 8 am - 8 pm and May 11, 8 am - 5 pm, located in tent/lawn in front of Bailey Hall. Come select from a wide variety of perennials, hanging baskets, geraniums, mixed planters, mini roses, herbs, annuals (bedding plants and vegetables), azaleas, fruit trees (Honeycrisp Apple trees, Alderman & Underwood Plum trees), Hort t-shirts, clay pots painted & designed by club members, horticulture books, and Osmocote (slow release fertilizer). Hort Club is in need of additional assistance for the sale, so stop by Al Smith's office, 356 Alderman (Hort Club Advisor) and sign up to help. You do NOT have to be a club member. Julie Boldt, Hort Club President, informs us that your help would be greatly appreciated. Thanks in advance.

WHO'S THE JOKE ON???? Surprise, this week the Hort Learning Garden acquired a huge tree planted smack in the middle of it. Is this part of the PLAN....it seems so out of place. My curiosity overwhelmed me. Upon approaching it, I found a sign that reads "Notice to all birds: This is a no-net-gain tree. If you used it before, you can use it again. (same tree, new spot) However, No New Birds. Come visit our No-Net-Gain Tree!

HORT 3040.....students were busy again yesterday (lab day) implementing their design for the west side of Alderman Hall. It is coming along nicely but rain ended their planting activities. Check out our Alderman Arboretum next week for finishing touches. Great Job!

COURSE EVALUATIONS.....will be done the week of May 20th since I will be on vacation May 27-31. Please call me to schedule your class. Last day of classes is May 31 AND.....
COAFES GRADUATION.....is Sunday, June 2, Northrop Auditorium. Faculty are reminded to return your ceremony confirmation form (cap & gown) by May 14 to Linda Norcross, 277 Coffey Hall.

BABY ANNOUNCEMENT.....Nora Elizabeth Cheikh was born April 29 at 7# 8oz, 21 1/2". Baby and Mom are doing fine and Nordine will send picture soon. Congratulations!

LOST.....a grey case with eye glasses found in room 394 AlderH. See Kathy Lloyd in main Hort office to claim.

1997-98 FULBRIGHT GRANTS FOR GRADUATE STUDY ABROAD potential applicants are urged to attend informational meetings on May 29 at 10:15, or May 30 at 2:30 pm, 433 Johnston Hall. Campus application deadline: September 27. If interested contact Fellowship Office at 625-7579..

COURSE ANNOUNCEMENT.....Span 0221 Reading Spanish, SSI, TTH 6-8:30, 116 Folwell Hall. This course is specifically designed for individuals who desire a reading knowledge of the language. At the end of the course the student may take the equivalent of the Spanish Graduate Reading Examination. The Department of Spanish & Portuguese will certify to the Graduate School a reading knowledge of Spanish upon successful completion of this examination.

LOOKING AHEAD.....

UAC, May 8, 22 at 9 am

GSC, May 9, 23 & June 6 at 1 pm

Philip C. Hamm Memorial Lecture, May 14, Professor J. S. (Pat) Heslop-Harrison, Karyobiology Group, John Innes Centre, Norwich, England, 3:30 pm, 33 McNeal

MISA & Sustainable Ag sponsors seminar/discussion by Dr. Tukey, May 15, 3:15 pm, 306 BorH.

Graduate School's Guy Stanton Ford Memorial Lecture, Vincent Courtillot, French geophysicist, May 16, 10:15 am, 150 Physics.

A Career Development Symposium for post-doctoral associates & fellows, research assistants and graduate students, May 17, 1-5, Coffman Memorial Union, Theater/Lecture Hall. The Job Search: Creating and Presenting a Successful Application. Admission is free, RSVP by May 6 at 626-1435 or post-doc@gold.tc.umn.edu, homepage at <http://www.tc.umn.edu/nlhome/g118/post-doc/> See Posting across from graduate mailboxes.

Make-up Training Sessions available for *Prevention of Violence and Harassment*, 5/23/96, 9-11 am (St. Paul Campus) or 5/21/96, 1-3 pm (Mpls East Bank). Call to register, 624-7845.

Reception for Graduating Students, June 8, hosted by President Nils and Pat Hasselmo. Call 627-6800.

FALL QUARTER CLASS SCHEDULES.....will be distributed to faculty mailboxes the week of May 6th. As the department receives only a limited number of copies, please hang on to your copy. Early Fall Quarter registration begins May 13 but you will need your class schedule next fall also. If you do not want a copy, return it to Evonne.....thanks.

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Volume 14, #19, 5/10/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

May 1996						
S	M	T	W	T	F	S
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19	20	21	22	23	24	25
26	27	28	29	30	31	

MON- Early Fall registration begins

TUE- Deadline for faculty to reserve cap/gown for COAFES graduation on June 2.

Philip C. Hamm Memorial Lecture, Probing, priming, and paining plant chromosomes: The comparative analysis of genome organization, Professor J. S. (Pat) Heslop-Harrison, Karyobiology Group, John Innes Centre, Norwich, England, 3:30 reception, 4:00 lecture, 33 McNeal Hall.

WED- Growth Chamber Mtg, 8 am, 310 AlderH.

MISA and Sustainable Ag Study Group are sponsoring a seminar/discussion led by Dr. H. B. Tukey, Jr., 3:15-4:30 pm, 306 BorH.

THR- Graduate School's Guy Stanton Ford Memorial Lecture presented by Vincent Courtillot, French geophysicist, University of Paris and head of research laboratory at Institut de Physique du Globe, 10:15 am, 150 Physics Bldg, East Bank.

GCB Seminar, Tissue polarity in pre-hair morphogenesis in Drosophila, Paul Adler, Dept. of Biology, University of Virginia, 3:30 pm, 335 BorH.

FRI- COAFES Transfer Visit Day, Albert Markhart, Advisor.

DEADLINE for our department Graduate Student Teamwork Award. Turn your document into Evonne in the main Hort office.

REGISTRATION INFO.....Early Fall registration begins on Monday, May 13 and continue through Friday, June 14 for all students. Registration for summer-only students begins for both terms of Summer Session on Friday, May 17. Summer Session registration for graduate students begins May 9 and continue through June 17 for Summer Session I and through July 24 for Summer Session II. COAFES graduation ceremonies are set for June 2 at Northrop Auditorium.

KUDOS.....to Ginny Gaynor, who was awarded the Horticulture Outstanding Graduate Student of 1996. Congratulations also to Paul Buccigliola who has earned his Ph.D. You can be proud of your achievements.

LOST & FOUND.....a 3M DS,DD,RH diskette titled: DOS330 1/27/89, Pitol #6, Do not remove from lab. If this sounds familiar, please claim from Kathy Lloyd in the front office.

TA ENRICHMENT PROGRAM.....if there are any graduate students who are interested in this program/orientation, please reserve September 17-20 for a series of sessions. I also would like to know ahead of time, so drop me a note as to whether you think you might be participating. Thanks..Evonne.

AUXILIARY ANNUAL PLANT SALE.....Margot Picnic Shelters, Minnesota Landscape Arboretum, May 11 (9 am start) and May 12 (10 am start). Large selection of trees, shrubs, perennials and annuals of all varieties available for sale.

HAPPY MOTHERS DAY

GOOD LUCK FISHING

BYE

TWIG BENDER

Volume 14, #20, 5/17/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

May 1996						
S	M	T	W	T	F	S
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26	27	28	29	30	31	

SUN- Minnesota Gardening, 9 pm, Channel 6 MCN, Growing Peppers: A look at the range of color, sizes & types of peppers you can grow in Minnesota.

TUE- Retirement Luncheon, 11 am - 2 pm, Earle Brown Center.

FCC, 2 pm, 398 AlderH.

PBS Colloquium, Glabrous! Is it Rogaine for plants? Pam VanderWiel, PBS Graduate Assistant Thesis Proposal, 3:30 pm, 335 BorH.

Make-Up Training Program for the Prevention of Violence and Harassment, 1-3 pm, Mpls Campus. (624-7845 for location)

WED- UAC, 9 am, 398 AlderH.

Project Renewal Seminar, Plant Cold Hardiness, Paul Li, 3:30 pm, 415 AlderH.

THR- GSC, 1 pm, 398 AlderH.

Make-Up Training Program for the Prevention of Violence and Harassment, 1-3 pm, St. Paul Campus. (624-7845 for location)

Special Entomology Seminar, Spatial and temporal expression patterns of olfactory genes in moth antennae, Dr. Richard G. Vogt, Dept. of Biological Sciences, University of South Carolina, 3:00 (refreshments), 495 Hodson Hall.

HOLIDAY SCHEDULE FOR FISCAL YEAR 1996-97 (clip and save notice)

Major Holidays (all campuses)

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

Floating Holiday (Twin Cities)

November 29, 1996 (Friday)
December 24, 1996 (Tuesday)
March 28, 1997 (Friday)

Personal Holiday - the 11th holiday has been designated a personal holiday for 1996-97 and certain policies apply. Check bulletin board in main office for specifics.

OWNER(S) PLEASE REMOVE.....from the back stairwell between 2nd & 3rd floor of Alderman, the two bicycles (Free Spirit and Huffy) by May 24 or they will be confiscated!

GOODBYE AND GOOD LUCK PARTY.....for Anne, Fran and Patrick Hanchek who will be moving to Portland, Oregon in mid-June. Please join in for food, fun and fellowship on Friday, May 31 from 4:30-8:30 pm at the Minnesota Landscape Arboretum Auditorium. Bring: appetizer, salad, main entree, or dessert. RSVP to Shirley Mah Kooyman at 443-2460 ext. 566. Gift donations are being accepted Deb Brown 624-7491 or Jean Larson, 443-2460 ext. 527.

1ST GRANDCHILD.....for Paul Li, in fact, a grandson born to his daughter and husband, Jennifer & Dan Kaufman. Nathan Wynmao Kaufman was born May 11, 7 lbs 12 ozs, in Rochester, MN. Congratulations!

ANNUAL SEEDLING SALE.....presented by Forestry Club on Tuesday, May 21 through Thursday, May 23, 9:30-3 each day, lower level of SPSC. They have deciduous trees, evergreen trees, shrubs and maple syrup.

PROMOTIONS.....approved by the Board of Regents, effective July 1, 1996, to John E. Erwin, Assistant to Associate with tenure, and Bud Markhart from Associate to Professor. Congratulations!

A JUST-FOR-FUN BROWN BAGGER.....to student, staff and faculty for Horticulture in Seattle - A Plant Paradise, (slide of horticultural plants, gardens, the university and the city) by Dr. Harold Tukey, June 4, noon, 310 AlderH. Mark your calendar.

TAKE THE STAIRS.....May 28 from 7 am to 4:30 pm, the Alderman building elevator service will be shut off for service.

CALL FOR NOMINATIONS FOR COMMISSION MEMBERSHIP.....The Commission on Women is pleased to invited you to submit nominations for new members. They are seeding individuals from broad constituencies from across the University. Nominations are due today, May 17. See Evonne for form which can be faxed immediately.

HAVE A SUNNY WEEKEND

MAROON & GOLD CASUAL FRIDAYS
(time to dig out those gopher t-shirts...or is it?)

TWIG BENDER

Volume 14, #21, 5/24/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

May 1996						
S	M	T	W	T	F	S
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<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>	

MON- University Holiday - Memorial Day Observed

FRI- FCC, 1-3 pm, 398 AlderH.

GOODBYE PARTY for Anne, Fran and Patrick Hanchek, 4:30-8:30 pm, Arboretum Auditorium.

BABY ANNOUNCEMENTS.....a baby boy to Maria Janssen-Spaans & Egbert Spaans on May 18th. Erik Maurits Spaans was 7 lbs 15 oz, 21 1/2". Joe Sowokinos has announced his first granddaughter, Magen Brooke, born on April 15th to Doug & Diane Sowokinos. The twin grandsons are now 3 years old. Congratulations and bring pictures or the real thing to visit the department!

A MASTER OF SCIENCE DEGREE.....was bestowed upon Penny Aguirre this week. Congratulations!

CANADIAN NATIONALS (handball).....Joe Sowokinos competed and placed 2nd in the Master's Singles division. Way to go, Joe!

HONOR TO ANNOUNCE.....that Sue Galatowitsch is one of two candidates representing the University of Minnesota for the David & Lucile Packard Fellowships for Science and Engineering Award. Good Luck, Sue!

TAI CHI CHUAN.....Professor Jian, a visiting scholar from China working with Dr. Li, is an expert in Tai Chi Chuan. He is willing to lead department members who would like to try this oriental exercise/meditation/dance form. If you are interested, please contact Betsy Zimmermann, so we can set up a practice time (probably 4:30 or 5:00 pm).

LOOKING AHEAD.....

June 4.....Brown Bagger for student, staff and faculty for Horticulture in Seattle - A Plant Paradise, (slide of horticultural plants, gardens, the university and the city) by Dr. Harold Tukey, 12 noon, 310 AlderH. Mark your calendar.

June 4.....COAFES Associated Dean for Research and Assistant Director of MN Ag Experiment Station Open Forum/discussion, Gary Gardner, Candidate, 9-10:15 am, 62 EBC.

June 5.....COAFES Associated Dean for Research and Assistant Director of MN Ag Experiment Station Open Forum/discussion, Gary Lemme, Candidate, 9-10:15 am, 35 EBC.

June 6.....COAFES Associated Dean for Research and Assistant Director of MN Ag Experiment Station Open Forum/discussion, Phil Larsen, Candidate, 9-10:15 am, 35 EBC.

June 14..... COAFES Spring Faculty Assembly, 10-12 noon. Location to be announced.

HAVE A SAFE WEEKEND

May 1996						
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WED- Faculty Meeting, 1-3 pm, 398 AlderH.

THU- GSC, 1:00 pm, 398 AlderH.

SUNDAY BRUNCH AT THE ARB? Brunch served 11:00 to 2:00 the first Sunday of each month. Adults--\$12.95, children under 12--\$6.95. Call 443-2460, ext. 772 for reservations.

TAI CHI EXPIORATION.....Professor Jian will lead people interested in learning Tai Chi. We will meet Tuesday and Thursday afternoons at 4:45 on the lawn next to Mullin's Woods outside the lower Alderman entrance. The first meeting will be June 6, when Dr. Li will help explain Tai Chi. It is very informal, and all are welcome. See Betsy Zimmerman for more information/encouragement.

REDUCED TIME APPOINTMENTS.....Serena Sjolund, Word Processing Specialist in the Hort office, will be working a nine month appointment starting June 1, 1996. I, Martha Piechowski, will be cutting back to 75% time permanently as of June 1. My new hours will be 7:45 to 12:30 M,W,F and all day Tuesday and Thursday.

SEMI-ANNUAL FRIDGE CLEANUP.....The lunch fridge in "Shirley's Kitchen" and the civil service/union coffee break room will be cleaned out,

washed and defrosted next week. Please remove all your items by Wednesday, June 5th at 4:30 pm. Remaining food items will be disposed of. Thank you. Al Smith and Martha Piechowski.

THIS WEEK.....

June 4.....Brown Bagger for student, staff and faculty for Horticulture in Seattle - A Plant Paradise, (slide of horticultural plants, gardens, the university and the city) by Dr. Harold Tukey, 12 noon, 310 AlderH. Mark your calendar.

June 4.....COAFES Associated Dean for Research and Assistant Director of MN Ag Experiment Station Open Forum/discussion, Gary Gardner, Candidate, 9-10:15 am, 62 EBC.

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June 6.....COAFES Associated Dean for Research and Assistant Director of MN Ag Experiment Station Open Forum/discussion, Phil Larsen, Candidate, 9-10:15 am, 35 EBC.

June 8.....Reception for graduating students and their families at Eastcliff. All who will be graduated by the summer of 1996 are invited. Call Linda Fox at 627-6800.

LOOKING AHEAD.....

June 14..... COAFES Spring Faculty Assembly, 10-12 noon. Location to be announced.

Anne's party is at 4:30 Friday at the Arb, see ya there!

TWIG BENDER

Volume 14, #23, 6/7/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

June 1996						
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SAT- Reception for all graduating students and their families, President Nils and Pat Hasselmo, hosting at Eastcliff, call 627-6800 for questions.

FRI- Spring Quarter Faculty Assembly, 10-noon, B35 COB

Farewell Reception for Dr. Tukey, 2 pm, Alderman Hall Lobby.

GRADE SEASON.....we are in the middle of Spring Quarter grading and I want to thank each instructor for their promptness in submitting the grade forms to me so I can get them into the COAFES on time. The Department Heads receive an itemized report each quarter on the late grade statistics and I'm happy to report that Department of Horticultural Science has a 0.00% late grades. Thanks to everyone!

A96 APPROVALS BY COAFES.....a new course added, proposed by Bud Markhart, was Hort 3010, Growing Plants Organically: What It Means To Be 'Green', 3 credits, offered Fall Quarters. A name change was approved for Hort 1021 from Woody Plant Materials TO Woody Landscape Plants. Hort 5042 has minor prerequisite change approval and is now Hort 3001, 3072, PIPa 3002. Two courses that have been dropped are Hort 8061 and 8064. Originals of these approvals are on file in the main Hort office. See Evonne.

TAI CHI.....was canceled on June 6 due to rain but will be rescheduled for Tuesday, June 11 at 4:45 on the east side (1st floor level) of Alderman entrance. See you there.....Betsy Zimmermann.

REDUCED PICK UP AND DELIVERY.....Campus Mail notifies that we will receive one mail visit a day rather than two effective July 1. Have your campus mail in the brown container before 10:30 am.

INTERNSHIPS AVAILABLE.....through the Minnesota State Horticultural Society (MSHS): Community Gardening Intern, Gardening Intern, and Gardening Information Development Intern. Background preferred is knowledge of practical gardening; classwork and/or experience in horticulture and communications. Computer skills, using Windows. Contact Dorothy Johnson, 643-3601.

MSHS Annual Educational Conference.....June 21-23 at the Ramada Inn, 194 & White Bear Avenue. A full weekend of activities is planned with special banquet speaker, Gustaf von der Hoeven, Extension Specialist, Kansas State University For reservations, 643-3601.

SYMPOSIUM ON LANDSCAPE PLANTS: Exploration Breeding Evaluation . . . sponsored by the Landscape Plant Development Center, Radisson Hotel South, Bloomington, June 27,28,29. If you need registration information, contact Harold Pellett at 443-2460 X 735. Deadline for symposium registration is JUNE 15.

FOOD ANIMAL BIOTECHNOLOGY CENTER '96 SYMPOSIUM...Unraveling the Mysteries of Muscle Growth, June 21, SPSC Theatre.

OFFICE OF THE REGISTRAR.....announces that unofficial transcripts WILL NOT be mailed to students this June. Instead, students can obtain their spring quarter grades through the Student Access System (via computer) and the New **Gopher Student Line** at 624-5200.

NOMINATIONS ARE DUE BY JULY 1.....for 'The Little Red Oil Can Award' for St. Paul Campus Homecoming 1996. There are categories in student, staff, faculty, organization and alumni. For criteria & application form, contact Melissa White, 624-3457 or whit0126@gold.tc.umn.edu

REQUEST FOR PROPOSALS.....Pesticide Reduction Options Program (PRO Round IV Funding with approximately \$180,000 available. The grant funds are made available from the pesticide regulatory account by the Minnesota Legislature. Preproposals will be accepted through August 16, 1996. Full proposals will be due October 21. Questions? 612-223-8205.

TWIG BENDER

Volume 14, #25, 6/21/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

June 1996						
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NATIONAL SCIENCE FOUNDATION DIRECTORY.....is on display (located in magazine rack in department coffee room). The directory contains NSF-supported undergraduate faculty enhancement projects along with workshops and short courses for undergraduate faculty for Summer 1996 and academic year 1996-97.

HAVE A GOOD WEEKEND

WED- Hort Department Golf Outing at the University of Minnesota Les Bolstad Golf Course, 2275 W. Larpenteur Ave. Meet at the clubhouse at 9:15. We will golf the front 9, cost is \$10 and there will be prizes at every hole. Contact Roger Meissner FMI.

THR- St. Paul Bookstore is closing at noon for physical inventory and will reopen July 1 at 9 am.

FRI- Transfer Visit Day - students visit our department at 2:15 pm.

LOOKING AHEAD.....

July 5 Hort Department Main Office will be closed. (NOTE: This is not an official University Holiday)

July 19 Bert & Darlene Swanson's Retirement Party.

ON LINE.....Restoration and Reclamation Ecology (Hort 5015) Review can be viewed on WWWEB at <http://www.hort.agri.umn.edu/h5015/rrr.htm> I have also posted topics and students names across from mailboxes.

FREE ADMISSION.....to Minnesota Landscape Arboretum for students, staff and faculty in the Colleges of Agricultural, Food and Environmental Science and Architecture and Landscape Architecture. Please spread the word and encourage these groups to visit this beautiful facility. Peter Olin, Director.

TWIG BENDER

Volume 14, #26, 6/28/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

July 1996						
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TUE- First Floor main entrance into Alderman closed due to removal of old tiles in front of Dial-U Clinic. Please use either side entrance of 3rd floor entrance.

WED- First Floor main entrance into Alderman closed due to installation of new tiles in front of Dial-U Clinic. Please use either side entrance of 3rd floor entrance.

THR- INDEPENDENCE DAY - Official University Holiday

FRI- Hort Departmental Office closed

HORT DEPARTMENT GOLF OUTING REPORT.....our group of 8 golfers managed to get in nine holes before the black clouds closed in. It was a very enjoyable round with a cool breeze. As you will see by the scores, anyone is welcome to golf with this group.

Troy Carson (44) Jason ? (43) Roger Meissner (47) Chris Gran (52) Bud Markhart (64) Evonne Kuyper (77) Sue Wiegrefe (73) Daniel Warnock (88)

Prizes awarded:

Longest putt on hole 3 (Roger), hole 7 (Sue), hole 9 (Chris)

Closest to pin on hole 2 (Jason), hole 5 (Chris)

Longest drive in fairway on hole 4 (Chris)

We are planning the second golf outing the week of September 9-13.

After we will grill brats, have refreshments. Talk to Roger if you're interested.

DEPARTMENT PICNIC.....is set for September 7 at the Roseville Central Park. It is potluck style for lunch (11 am). Bring family, friends.

IN RECOGNITION OF THEIR SERVICE.....to the University of Minnesota, you are invited to celebrate the occasion with **Darleen Swanson** and **Bert Swanson**, July 19, 2 pm, Atrium of McNeal Hall. Darleen began her career at the U in 1958. She has worked in Educational Research, Agronomy & Plant Genetics, MN Landscape Arboretum and Soils. Darleen will be leaving the University July 31. Bert earned his Ph.D. from our department in 1972. He was Assistant Professor in Horticulture at Colorado State University and joined our faculty from 1978 to present. He is currently the COAFES Major Coordinator for Plant & Animal Systems major and has built a nationally recognized nursery management program, established the TRE Nursery, and served his time on numerous department, college and professional society committees. Bert's last day is June 30. Bert and Darlene are moving North where Bert has accepted the position of Vice President of Operations of Nandor of the North, a private wholesale nursery. They both will be hugely missed on the St. Paul Campus. Emily Hoover (160 Alderman) will be accepting gift donations from horticulture department members.

ANNOUNCEMENT.....I am pleased to announce that Dr. Jim Calkins will be teaching the Nursery Management sequence (Hort 5046, 5047, 5048) during the 1996-7 academic year. Dr. Calkins is well-qualified for this assignment, having received both his M.S. and Ph.D. degrees from the University of Minnesota in Nursery Management, having been involved in the TRE Nursery for many years, and having taught several undergraduate courses through CEE. Perspective students should be advised that the courses will be offered. Questions may be addressed to Evonne Kuyper in the Department of Horticultural Science at 624-4242. Gary Gardner

LOOKING AHEAD.....Hort Faculty Meeting is scheduled for July 10 from 1-3 pm, 310 Alderman.

THE END

TWIG BENDER

Volume 14, #27, 7/12/96, Editor: Martha Piechowski (m-piec@maroon.tc.umn.edu)

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

July 1996						
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The Relocation Assistance Program has two clients in need of housing. The first client seeks a sabbatical house from August 5, 1996 through December, 1996. The client has one dog and will spend up to \$1500/month for housing.

The second client is interested in a house near the St. Paul campus with a possible option to buy. The client will spend \$1000/month.

If you know of any sabbatical housing available, please contact Lisa Jones at the Relocation Assistance Program, 627-1891 or by email: rapland@tc.umn.edu. Thank you.

FRI: Going away party for **Bert & Darleen Swanson**, 2:00 p.m.
Atrium of McNeal Hall.

DEPARTMENT PICNIC.....is set for September 7 at the Roseville Central Park. It is potluck style for lunch (11 am). Bring family, friends.

If anyone would like a 1996-97 Extension/University College Bulletin, please see Evonne.

BEWARE.....vandalism occurred this week in Alderman Hall, damaging a portable laptop computer. The incident was reported to the police. Please safeguard your computers carefully to avoid incidents like this in the future.

A pair of bifocals was found on the 1st floor entrance wall of Alderman Hall. Also a plastic credit card. Please see Kathy Lloyd to claim these items.

TWIG BENDER

Volume 14, #28, 7/19/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

July 1996						
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28	29	30	31			

OPEN THIS SUMMER.....the Minnesota International Student Association (MISA) is available to welcome and assist newly arriving international students to the University. They have temporary on-campus housing arrangements for newly arriving international students. Contact MISA at 625-6119 for more information.

THE END

TODAY Going away party for Bert & Darleen Swanson, 2:00 p.m., Atrium of McNeal Hall

LOOKING AHEAD.....

Horticulture Night, West Central Experiment Station, Morris, August 1, 5-9 pm. Everyone Welcome!

POSITIONS AVAILABLE.....

Community Gardening Intern - assist with program and service delivery of Minnesota State Horticultural Society's Minnesota Green Community Gardening Program. Position available immediately for up to 11 months, 40 hours per week (summer), 10-12 hours during FWS Quarters, \$6/hour. Contact Terri Goodfellow-Heyer at 643-3601, Minnesota State Horticultural Society (MSHS)

Community Organizing, Gardening & Planning Specialists Needed - a good way to build your resume! MSHS is updating their resource pool of persons to assist communities. Work is part time and usually on a short-term basis, working as a sub-contractor of MSHS. Expertise is needed in one or more of these areas: community organizing; landscape planning, garden site development and implementation; supervising plant installation and maintenance, volunteer development; project/event management. Hourly fee plus expenses. Apply with a resume or letter of interest, along with salary requirements to Terri Goodfellow-Heyer, MSHS, 1755 Prior Ave. No., Falcon Heights, MN 55113

TWIG BENDER

Volume 14, #29, 7/26/96, Editor: Evonne Kuyper (kuyper001@maroon.tc.umn.edu)

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

July 1996						
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1997-98 FULBRIGHT SCHOLAR AWARDS FOR U.S. FACULTY AND PROFESSIONALS.....application deadline is August 1. Awards range from two months to a full academic year in virtually all disciplines. The basic eligibility requirements for a Fulbright senior scholar are: U.S. citizenship and the Ph.D.. Contact Rita Snider, Program Associate, 149 Nicholson Hall (626-7144) or e-mail r-snid@maroon.tc.umn.edu

BELATED CONGRATULATIONS.....to Greg & Gloria Gingera on the birth of their baby girl, Julee, on July 2. Julee is a petite 7 lbs 5 ozs, 19 1/2 inches tall. We're all hoping to see Julee soon.

HAVE A GOOD WEEKEND

HORTICULTURE NIGHT.....August 1 at the West Central Experiment Station, Morris. Tours from 5-9 pm. Contact Jean Spohr (320) 589-1711

NEW MEMBERS NEEDED.....for Graduate School Research and Fellowship Committees. As you may know, the outcome of all faculty research, faculty professorship and student fellowship competitions managed by the Vice President for Research and Graduate School Office is determined by faculty committees. These committees are important because their collective judgments decide the allocation of numerous awards to faculty, students, and departments across the University. Thus, Charles Louis, Associate Vice President and Associate Dean of the Graduate School is writing to ask for assistance in identifying faculty with an interest in serving on one of these committees. The major standing committees are the General Research and Biomedical Research Advisory Committees; the Faculty Summer Research Committee; the Interdisciplinary Research Advisory Committee; the Distinguished McKnight Professor Committee; the McKnight Land-Grant Professorship Committee; and the Graduate School Fellowship Committee. Please check with Evonne in the Horticulture Office if you would like to volunteer yourself and/or recommend faculty outside your own immediate department.

TWIG BENDER

Volume 14, #30, 8/2/96, Editor: Martha Piechowski (m-piec@maroon.tc.umn.edu)

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

Sad news: Chuxing (Chuck) Sheng, who worked for two years (1994-95) in the Horticulture Department, died last week. Chuxing was currently working at a USDA lab in Urbana, Illinois when he was diagnosed with cancer (in June) that had progressed to his liver and lungs. His wife Lili and three young daughters will need all our support to get through this difficult period. Lili is still in China while the children are staying with her brother, Liming Zhang. submitted by Jerry Pierson

Liming Zhang
#409
99 Dalhosie Drive
Winnipeg, Manitoba, Canada R3T 3M2

HERE YE: Ed Stadelmann has a parking space in lot 169 to sublet until September 30th. You may contact him at 624-3267.

AUGUST BIRTHDAYS

Gary Gardner	1
Paul Richter	6
Karen Schik	6
John Erwin	8
Steve Moe	8
Bethany Davidson	11
Laura Kalisch	19
Martha Piechowski	22
Faye Propsom	24
Lori Marco	30
Rich Lehitinen	31

GARDEN WRITERS annual symposium August 16-20 at the Radisson South Hotel, Minneapolis, MN.

A retirement party for Ruby Adams of the Soil Science department will be Monday, August 5th at 2:00 pm in 375 Borlaug Hall

HAVE A GOOD WEEKEND

Twig Bender
Volume 14, #31, 8/9/96

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

MON - Soil, Water, and Climate Seminar, Nitrogen Economy of Alfalfa: Physiological Aspects and Environmental Impacts, Jurg Moritz Blumenthal, in partial fulfillment of the degree of Doctor of Philosophy, 2:00 pm, 375 BorH.

STATE FAIR TIME..... and volunteers are needed to staff the numerous booths that the University will participate in. Horticulture is having a table display in the 4-H building on August 30 from 9-5. To help with that display, sign up with Evonne in the Hort office. University Relations is responsible for a exhibit booth located in the Education Building. To help with that display, sign up with Mike Tracy at 4-4160.

PRESIDENTIAL SEARCH.....as everyone knows, President Hasselmo has announced his intention to retire at the end of the upcoming school year. The Board of Regents has begun a nationwide search to identify and recruit the best possible candidate to succeed Nils and serve as the University of Minnesota's fourteenth president. Suggestions are being solicited. Such individuals will be followed-up in a professional and confidential manner by the Search Advisory Committee etc. Please use the form that is posted across from the faculty mailboxes.

NEW AIR TIME.... For Minnesota Gardening beginning August 3: 9 am Saturdays.
August 10 - Garden Photography #6260
August 17 - Sweet, Sweet Corn #6245
August 24 -

NEW AIR TIME.... For Minnesota Gardening beginning August 3: 9 am Saturdays.
August 10 - Garden Photography #6260
August 17 - Sweet, Sweet Corn #6245
August 24 - Vines for Minnesota (NEW)
August 31 - Water Gardening (NEW)

NOTE FROM MAIN HORT OFFICE....when returning used cartridges to stores, please indicate on the box that it is a used cartridge.

GARDEN WRITERS ASSOCIATION OF AMERICA..... 1996 Annual Symposium, "The Path to Success", August 16-20, Radisson South Hotel, Minneapolis, MN.

UNIVERSITY SENATE.....those persons who wish to receive the minutes of the Faculty Consultative Committee should provide Gary Engstrand (garye@umn.edu) with their name and email address by August 16.

HAVE A GOOD WEEKEND

Twig Bender

Volume 14, #32, 8/16/96

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

MON - Thesis Defense Seminar, Simulation of populations of the mosquito aedes vexans in intermittent wetlands, Nancy R. Read, Ph.D. Candidate, Dept. of Entomology, 9:00 am, 490 Hodson Hall.

TUE - Birthday Party for Dr. Carl J. Eide, 92 years young, 10 am, 491 BorH.

CONGRATULATIONS.....to Tami Van Gaal who achieved her Masters Degree on August 9

BEST WISHES..to Gail and Glenn Howe on the birth of a baby boy, Thomas, who was born August 14, weighing 7 lbs 3 oz.

TUNE IN...to KLBB 1400 am on Saturday mornings between 8-9 am and hear the Arboretum Radio Show with hosts Dr. Ralph Bashioum and Jody Fetzer.

HORT RELATED JOBS AVAILABLE.....at the Minnesota State Horticultural Society. 1) Receptionist/Secretary - primary phone person, general office duties, data entry and secretarial assistance for membership needs. Available immediately, full time, permanent position. 2) Business Manager - maintain stability of the organization through operations management: administration of financial, personnel, and building management; computer functions; membership marketing; membership fulfillment; and products. Full time, permanent position. Contact Terri Goodfellow-Heyer at 1755 Prior Ave. N., Falcon Heights, MN 55113-5549 or call 643-3601.

WORKERS' COMPENSATION UPDATE.....the designated clinic for injured University (Twin Cities) campus employees is HealthWorks Occupational Medical Center, which has moved to new quarters just 3 blocks from its previous location. The new address is: 3329 University Avenue S.E., Mpls, phone number 379-7244. Remember that an Employee Incident Report is to be completely filled out for ALL one-the-job injuries, without exception, and referral to the designated medical clinic is mandatory on all injuries which cannot be resolved by first aid. Laura Kalisch, Assoc. Administrator.

REMINDER.....September 7 is the department picnic at Roseville Central Park beginning 11 am. Pot luck style, bring family. See Sue Galatowitsch or Emily Hoover for details.

THE END

Twig Bender
Volume 14, #33, 8/23/96

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

Weekly Calendar

WED- North Central Experiment Station Horticulture Day, celebrating 100 years of horticultural progress, tours 2:00 - 7:00 pm, Grand Rapids, MN 218-327-4490.

THR- Special Seminar, Development of a biological control agent to promote plant growth and control plant pathogens, Dr. Don Kenney, Gustafson, Inc., refreshments at 9:45 am, 491 BorH.

ALDERMAN HALL ROOF REPLACEMENT SCHEDULE:

August 28 - Mobilization
Aug 29-Sept 20 - Roofing tanker on site
Sept 22-Nov 1 - Sheetmetal

Smells will begin on August 29 and end on September 20. The air systems will NOT be shut off. OSHA has not established a specific PEL for asphalt fumes. They are considered as "particulates not otherwise regulated". If you have respiratory problems, consult your supervisor. Kath Lloyd (305 Alderman) has Material Safety Data Sheets if you wish further information.

HELP....I loaned out my MS-DOS 4.0 (yes, it's old) and need it back. If you borrowed it, please return it.....Cindy Tong

WHERE OR WHERE.....S. W. Lee and Glen Howe are seeking the whereabouts of a stainless steel lab cart last seen on the 2nd floor growth chamber room (8/20). Please return it or call if you have seen it (4-3722).

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

LOOKING AHEAD.

September 7 - Hort Summer Potluck Picnic, Roseville Central Park, 11 am.
September 11 - Hort Faculty Meeting, 1-3
September 24 - Orientation for New Graduate Students, 12 noon - 3:30 pm followed by reception, 3:30 pm, Alderman foyer.
September 25 - 1st Dept. Seminar, presented by Wes Hackett

Twig Bender
Volume 14, #34, 8/30/96

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

Weekly Calendar

MON - Official University Holiday

WED - Dept. FCC Organizational Meeting, 9:00 am, 310 AlderH.

HORT DEPARTMENT PICNIC, Saturday, September 7, 11-3, Roseville Central Park, Shelter on Victoria St., bring a dish to pass and something to grill, beverages provided (no alcohol permitted in park). Volleyball and kids' games! Contact Emily Hoover or Sue Galatowitsch for more information.

ATTENTION FACULTY.....there is the 1997 Call for Preproposals from the North Central Region Sustainable Agriculture Research and Education Program with a receipt deadline of September 13, 1996. See Laura Kalisch for information.

NEWS FROM ROGER MEISSNER....greenhouse space assignments for teaching and research have been handed out. If you did not receive a handout or have any please talkie to me. I am organizing a FALL GOLF DEPARTMENT TOURNMENT for Tuesday, September 3 at 9 am at the U of MN Golf Course. We will golf 9 holes, \$10.00 - you may play 18 holes if you like. Leave me a e-mail message if you are going to play.

UNIVERSITY OF ST. THOMAS.....invites you to a conference on Pedagogical and Design Issues for Environmental Studies Programs, Saturday, September 28 from 8:30 am to 4:30 pm., O'Shaughnessy Educational Center, University of St. Thomas, St. Paul Campus. This conference is made possible through a grant from the Minnesota Office of Environmental Assistance. Because of the significant expansion in environmental studies programs and courses in college and universities, this 1 day conference will provide an opportunity for faculty, program administrators, and students share insights regarding the status of such courses and programs. The brochure is posted on the easel in the Alderman Lobby. Information available from Steve Hoffman EMHOFFMAN@STTHOMAS.EDU or Brett Smith Bsmith4442@aol.com

MINNESOTA GARDENING.....Channel 6 MCN, 9 am weekly for September:

Sept. 7	Dahlia - NEW
14	Ornamental Grasses
21	Using Native Plants in the Landscape
28	Minnesota Mums

ARBORETUM RADIO SHOW.....question and answer with hosts, Dr. Ralph Bashoum and Jody Fetzer on Saturday mornings 8-9 am, KLBB 1400 AM. Tune in

HAVE A SAFE LABOR DAY WEEKEND.

TWIG BENDER

Volume 14, 35, 9/6/96
Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

HORT DEPARTMENT PICNIC, Sat
Sept, 7, 11-3, Roseville Central Park
Shelter on Victoria Street. Bring a dish
to pass and something to grill, beverages
are provided. Volleyball and kids'
games.

TA WANTED.....Mike Zins needs help
with 70 students in Hort 1021 for Fall
Quarter. Must have knowledge of
woody plant materials. Contact Mike at
443-2460 Ext 946. He checks his
messages and will get back to you.

"U" ANNOUNCEMENT...Linda
Wolford was appointed as the Acting
Director of the Diversity Institute. The
Institute's mission is to enhance and
improve the University of Minnesota's
climate for diversity in providing services
to faculty, staff and students by
implementing training, workshops,
consultations and other innovative
strategies to empower, challenge, inspire,
liberate and ultimately transform
individuals to act in ways which promote
the achievement of their full potential.
Welcome Linda Wolford.

RESIGNATION...Lynn Perkins has
recently accepted a position as the
Director of Prospective Student Services
at the University of Wisconsin, Madison.
September 6 is her last day as
Admissions Counselor for COAFES.
Good Luck, Lynn.

EXTENSION OF CONVERSION
AND/OR LOAN OPTION.....Payroll
is very aware that many faculty are out of
the state in the summer and has extended

their deadline for this process to
September 13, 1996 to allow additional
time for those who wish to consider the
option of biweekly. Hotline # is 625-
7536

"U" ANNOUNCEMENT.....McKinley
Boston, Vice President for Student
Development and Athletics is pleased to
announce a Parent Involvement Initiative
at the University of Minnesota. This
program is intended to improve
communications between the University
and parents of students. It will allow us
to centralize communications with
parents and promote parent participation
in University activities and events.
Marjorie Savage is serving as the
coordinator and everyone is encouraged
to contact her (626-9291) with
information on events, programs, or
opportunities of interest to family
members of students.

*TODAYS QUOTE.....You see things as
they are; and you ask "Why?" But I
dream things that never were; and I ask
"Why Not?" George Bernard Shaw*

MINNESOTA LANDSCAPE ARBORETUM

Events & Classes for September, 1996
Call 443-2460, ext 106 for information

APPLE HOUSE.....taste and purchase
more than 75 unique numbered
selections, popular favorites, and new
varieties of apples developed during
almost 90 years of apple breeding at the
University of Minnesota's Horticultural
Research Center. Proceeds from the

apple sales are used to support the fruit and vegetable research programs at the Horticultural Research Center. The Apple House opens August 22 until October 31 every Monday through Saturday from 10 am to 6 pm and Sunday from 12 noon to 6 pm. For a recorded message about apple availability call 612-474-9440.

FALL FESTIVAL.....Sat., September 28, 9 am - 3 pm. Featuring:

- Auxiliary Annual Fall Sale, beginning at 9 am, Frog Hollow, original dried flower arrangements, wreaths and other floral accessories handcrafted by Auxiliary Members.

- Field of Flowers Quilt Raffle, quilted by Auxiliary Members, purchase tickets in Lobby, Raffle at 2 pm, Auditorium.

- Entertainment includes music by Angelo Rulli, Organ Grinder (11 am-1 pm), and Ross Sutter, Folk Singer on Accordion and Guitar (1-3 pm), storytelling by J.B. Eckert, (1-2 pm), and Raptor Demonstration (2-3 pm)

- Educational Fun - cider making, apple tasting & rating, guided tram tours, Master Gardeners to help with your gardening questions.

- Especially for Children - decorate pumpkin heads and vegetables, make a "Harry Head" planter, face painting, apple pennants, crowns.

- Take a fall family photo on haybales with colorful scarecrows!

- Silent Auction, Bake Sale, many other items for sale including cookbooks,

clothing, candles, soaps, garden supplies, fall bulbs.

The Minnesota Landscape Arboretum is located 9 miles west of 494 on Why 5 in Chanhassen.

September Events: Sept 13 & 14 Edible Landscaping and Organic Gardening; Sept 14 & 15 Arboretum Flower & Garden Show; Sept 21 Autumn in the Garden Fall Symposium

September Classes: Sept 11 Daylilies for the Garden; Sept 21 Designing a Mixed Border Garden; Sept 28 Reptiles and Amphibians of Minnesota; Sept 30 Ornamental Grasses for Minnesota

HAVE A GOOD WEEKEND

TWIG BENDER

Volume 14, 36, 9/13/96
Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

Weekly Calendar

MON- Master's Defense Seminar, Effect of seed size on seed yield and on nitrogen fixation-related traits in bush bean crosses combining andean and middle American gene pool, Jose E. Vasquez Guzman, 9 am, 310 AlderH.

Hot Department Golf Outing at the University of Minnesota Les Bolstad Golf Course, 2275 W. Larpentuer Ave. Meet at the clubhouse at 8:45 am. Cost is \$10 for 9. Contact Roger Meissner FMI.

WED- Undergraduate Affairs Committee, 1 pm, 398 AlderH.

THR- FCC, 2-3:30 pm, 398 AlderH.

FRI- Department End of the Season Corn Feed. Bring a dish to pass and enjoy the last of the season's corn, 12 noon, Hort Headhouse. Corn courtesy of the mum project.

LOOKING AHEAD

Sept 24 New Graduate Student Orientation at 12 noon, 310 AlderH.

Sept 24 Reception, 3:30 pm, Lobby or Learning Garden (depending on weather)

Sept 25 Hort Seminar, 3:30 pm, Wes Hackett, 415 AlderH.

CONGRATULATIONS.....to Susan Wiegrefe who has accepted a position with the Morton Arboretum in Lisle, Illinois (30 miles west of Chicago). Department friends are invited to a goodbye party for Sue on Monday, September 16 at 2 pm in the lobby area of 3rd floor Alderman Hall. Dessert will be served. Contact Debbie Filler to help.

GIVE-AWAY.....Martha Piechowski has a large lemon tree and ficus plant to give away. Call her at 624-0728

BIG SPENDER.....I overbought ethyl alcohol from U-Stores. I have 3 unopened 5 gallon containers (stock # CX20460). If interested please contact Steve Moe at 4-0779.

PLEASE RETURN.....the slide projector that was located in 394 Alderman to Kathy Lloyd in the main Hort office. No questions asked. Thanks.

DEADLINE.....is October 7 for applications for the fall competition of the Grant-in-Aid program. Application packets are available to download from the web page (<http://www.grad.umn.edu>) or from 420 Johnston Hall.

RETIREMENT CELEBRATION.....for Don Olson, on Saturday, October 12 at the Minnesota Landscape Arboretum. Contact Virginia Engle at 625-7061 before September 30.

COIN-OPERATED COPY MACHINES.....in all campus library locations with the exception of the Biomedical Library. For your copying convenience, the Libraries and the U of MN - U Card Office are partnering to bring you a single card system on campus. These cards can be used in copiers and printers in the libraries and soon will be available for use in vending machines as well as other campus applications. Old style copy cards will need to be converted to the new card system. You can have that done between August 21 - November 1 at the Law Library, St. Paul Central Library, Walter and Wilson Library.

HAVE A GOOD WEEKEND

TWIG BENDER

Volume 14, #38, 9/27/96
Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

Weekly Calendar

- Sept
28th Fall Festival at the Minnesota Landscape Arboretum, 9 am - 3 pm.
- 30th Forum II on Campus Justice, Freedom of Speech in the Cyberspace University, a national teleconference, noon-1:30 pm, 25 Law Building.
- Oct 2 Lunch with the Leaders, SPSC, noon GSC, 1 pm, 310 AlderH. UAC, 1 pm, 398 AlderH. FCC, 2-3:30, 398 AlderH. Hort Seminar, Safety Training, 3:30 pm, 415 AlderH. All Horticultural Science employees who work in labs and/or with hazardous chemicals must attend! Lab principal investigators or lab managers are required to attend so they can do make-up training
- Oct 3 Hort 8066, Edina Goes Green, A Community Education Project in Low-Input Lawn Care, Perrin Carpenter, 4:00 pm, 310 AlderH.
- HARVEST, Frederick R. Weisman Art Museum, 333 East River Road, Minneapolis, 3-5 pm. Program at 4 pm.

WELCOME.....Monika Chandler writes "A fellow student has prophesied a year of vegetable production will create in me such bulging biceps as to render me unrecognizable. He went on to suggest I get tattooed to gain an air of strength and grit. Onion on one arm, ear of corn on the other, definitively stated Vince Fritz, my graduate adviser, mentor and role model. Thus begins my education. Prior jobs include book and newsletter production for managed care companies, teaching 10th and

11th grade English in Costa Rica, daycare, and writing summaries of research literature for best-selling, self-help author Dr. Warren Farrell's yet unpublished book, The 10 Greatest Myths About Men; Questions will be happily referred to Dr. Farrell. Relaxation from these stressful duties was achieved through hiking, skiing, in-line skating, reading and card games and lousy gambler; nickel stakes only. I hail from San Francisco, received a BA in biochemistry from UC, San Diego and have greatly enjoyed the intensity of all four seasons these past two years in Minneapolis". Monika's office is 426 AlderH. Stop in and say hello to Monika.

PLANTING.....Not only are volunteers needed for tree planting from 9:30-1:30 on Saturday, October 5, but supervisors are also needed. Join your friends and neighbors in planting native trees and shrubs in the Mississippi River Valley across from downtown St. Paul. Greening the Great River Park is sponsoring this planting and needs volunteers to help dig, plant trees & shrubs, spread mulch and water plants. This event will take place Rain or Shine. Please call Kathy Dougherty to volunteer as a supervisor at 224-5463.

FREE ADMISSION.....for students, staff and faculty in the Colleges of Agricultural, Food and Environmental Science and Architecture and Landscape Architecture to the Minnesota Landscape Arboretum. Peter J. Olin, Director, strongly encourages more students and staff to use this facility.

CONGRATULATIONS.....to Jose Vasquez, on the successful completion of his Masters Degree and to Jan Backland who attained his Ph.D. degree on 9/25.

BEST WISHES.....to Amy Beaver who was married to Christian Erickson on August 17 back home in Wyoming.

MUM EVALUATIONS.....all members of the horticulture department are invited to participate in a consumer rating of pot mums. Instructions for the evaluations, as well as locations and times will be distributed in the mailboxes next week.

WINNERS OF THE 1996 GARDEN PLOT COMPETITION:

Medic Alert goes to Evonne Kuyper, for the plot with the most disease or insect problems (as in potato beetles).

Green Giant, Pam Sanders for the plot with the largest vegetables/flowers.

Sprout, Christina Holeman, for the plot with the smallest vegetables/flowers.

Monet, Susan Barrott, for the plot with the best use of color.

Creeping Charlie, Mary Henry, for the plot with the best use of native species for a living mulch.

Sears Tower, Paul Bucciaglia, for the plot with the best use of vertical space.

Master Gardener, Maria Janssen, for the best overall plot.

Honorable Mention:

Ami Beaver, Tiny Tike Garden
Patrice Johnson, Salsa Garden

Congratulations to all and a big thank you to our judges this year. Daniel Warnock

THE CHANGING STUDENT BODY.....Faculty Development Conference, Radisson Hotel South, November 21-22. "We will provide registration fee for any horticulture faculty member who wishes to attend". Please contact Gary Gardner ASAP.

NEW MEMBERS FOR GRADUATE SCHOOL RESEARCH AND FELLOWSHIP COMMITTEES.....contact Gary Gardner if you want to be on committee.

ATTENTION GRAD STUDENTS (2 items)

Workshop on "Reserach in the St. Paul Campus Libraries" on Saturday, October 5, 9 am -1 pm, St. Paul Central Library, Room 2.

NSF Graduate Research Fellowships Announcement is posted across from your mailboxes. Application deadline is November 7, 1996.

ATTENTION UNDERGRADS.....Three scholarship opportunities are posted on the bulletin board in the lobby of Alderman. Men's Garden Club of Minneapolis, Inc. (3 \$1000 awards), The Sixth District Minnesota Horticultural Society (\$500) and Garden Writers Foundation, Inc. (\$5000 in awards).

GO GOPHERS

**MAROON & GOLD
CASUAL
FRIDAYS
FOREVER!!!**

TWIG BENDER

Volume 14, #39, 10/4/96
Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

WEEKLY CALENDAR

Oct 6-10, ASHS, Lexington, Kentucky.

Oct 6 - Deadline to clean out your garden plot.

Oct 8 - PBS Colloquium, Plasmodesmata Cell-to-Cell Transport of Proteins and Nuclei Acids, William Lukas, Professor, University of California-Davis, 9:00 a.m., 135 Earle Brown.

Oct 10 National Depression Screening Day, call 1-800-973-2211 for the location & phone number of a screening site near you.

Hort 8066, Development of selection criteria for patio mums, Esther Gesick, 4:05 pm, 310 Alderman Hall

Oct 11 Kuehnast Lectureship in Climatology, A brief excursion into three agricultural revolutions, Dr. Donald G. Baker, Professor Emeritus, Soil, Water, & Climate, 3:30 pm, 335 BorH.

DEPT. PHONE LIST.....if you have additions or corrections to the department phone list that was recently distributed in your mailbox, please let Evonne know.

DEPT. COMMITTEE LIST.....will be distributed within the next 10 days.

MAIN OFFICE

RENOVATION.....October 1-11 are days filled with moving furniture, painting walls, and carpeting installed in the 305 area. The accounting staff is now located in room 394 with a lot more space (much needed). The main office will receive new carpet next week so more moving, etc. We ask your patience in this process. With 394 no longer being available for meetings, please sign out room 310.

CONDOLENCES.....is extended to the family of Cheryl Engelkes who died on September 28 at home in St. Paul. Memorial services are on October 4 at the Baptist Church, Adrian, MN. Cheryl was both an undergraduate ('83) and graduate student in our department. It is sad to get this news.

CARROT TASTE TEST.....The Sequel.....participants are needed for a carrot taste test on Wednesday, October 9 from 9 am to 1 pm in 132 McNeil Hall. The test will take approximately 30 minutes, if there's no line at the door. You will get paid \$4.00.

WELCOME.....Greg Nordwig is a new graduate student doing his Masters degree with John Erwin advising. "I am from north-eastern Wisconsin, near the city of Shawano. My background is different from most students, in that I farmed for 12 years before returning to

school. I received my B.S. Degree in Horticulture from the University of Wisconsin, River Falls in December, 1995. I began my work here in June. My area of interest is production of perennials and native plants. My thesis project will involve working with Asclepias and I will also be working on side project involving production of perennials." Greg is in room 452 Alderman and his e-mail account: nord0207@maroon.tc.umn.edu Stop by and say hello.

WELCOME.....Erica E. Davis....."As a former industry analyst at an ad agency in Boston and at NordicTrack in Chaska, I can honestly say horticulture is a breath of fresh air. Minneapolis has been my home since 1990, but I hail originally from Massachusetts. Much of my youth was spent living and traveling around the middle east in places such as Iran and Saudi Arabia (and other places that are not presently suitable for travel) because my father worked in the defense industry. I am married and a proud parent of three cats (ages 2,2, and 16). My favorite season is fall, undoubtedly because of apple season. My area of interest is fruit production (primarily apples and perhaps blueberries). I have a B.S. in Business Administration / Marketing from Suffolk University in Boston, and am currently pursuing a plant B Master of Horticulture under Emily Hoover. It's great to be here!" Erica dug out a space in room 320 - stop in and get acquainted. It's looking good & clean in there now.

DISCOVER HORTICULTURE OPEN HOUSE.....Saturday, October 19, from 10:30 am - noon. Please contact Evonne in the main hort office to volunteer. This is in conjunction with the St. Paul Campus

Homecoming activities. It is being advertised in several local newspapers plus a special mailing inviting families of both new and continuing undergraduate student. There will be three tours for families to select from: Biotechnology Tour, Landscape Design and Garden Tour, and the Greenhouse, Nursery, & Turf Tour. The tours will leave from room 310. Room 310 will have displays from the Arboretum, Master Gardeners, and the Dial U plus complementary mini corsages, MN apples, hot cider and cookies for the families. I am in need of more volunteers. Be a part of this fun day and help others "Discover Horticulture". Thanks.....EK

COMPLEAT & PRACTICAL SCHOLAR PROGRAMS.....if you are a faculty member who enjoys teaching in an area of interest outside your normal teaching load, or an advanced graduate student who would like an opportunity to broaden your teaching experience, please contact University College Continuing Education, Susan Lindoo, Program Director, 624-3382 (slindoo@mail.cee.umn.edu). The Compleat Scholar is a liberal arts program offering noncredit courses in the arts, social sciences, literature, writing and the natural and physical sciences. The Practical Scholar classes provide applied knowledge and skill-building in areas such as career planning, personal finance and investment, wellness, gardening and study skills. Together the programs offer over 380 courses per year. Classes are held both on campus and at Twin Cities sites, no exams or grades to assign.

USEFUL INFORMATION.....you may have seen a recent TV program that discussed credit card and instant credit

fraud. This privacy Intrusion Warning was forwarded for me to re-print. Your name, SS#, current address, previous addresses, mother's maiden name, birth date and other personal information are now available to anyone with a credit card through a new Lexis database called P-Trax. As I am sure you are aware, this information could be used to commit credit card fraud or otherwise allow someone else to use your identity. You can have your name and information removed from this list by making a telephone request. Call (800)543-6862, select option 4 and then option 9 ("P-Trax") or 3 ("all other questions") and tell the representative answering that you wish to remove your name from the P-Trax database. You may also send a fax to (513)865-1930, or physical mail to LEXIS-NEXIS, P. O. Box 933, Dayton, Ohio 45401-0933. Sending physical mail to confirm you name has been removed is always a good idea. As word of the existence of this database has spread on the net, Lexis-Nexis has been inundated with calls, and has set up a special set of operators to handle the volume. In addition, Andrew Bleh is a manger responsible for this product, and is the person to whom complaints about the service could be directed. He can be reached at the above 800 number. Ask for extension 3385. According to Lexis, the manager responsible is Bill Fister at extension 1364.

MAC ARTHUR INTERDISCIPLINARY PROGRAM.....on Peace and International Cooperation offers between four and six research grants of \$5000 each for the University of Minnesota doctoral students who are not formally part of our program. The money is typically used to support overseas research, which is the

most difficult money to come by in these times of economic stringency. Award-wnners also participate in the MacArthur Program's academic-year-long field research workshop to help them prepare for successful field work. Contact Allen Isaacman, 624-0832 with your questions. Deadline to apply is December 4, 1996.

MAROON & GOLD

CASUAL FRIDAYS

GO GOPHERS

TWIG BENDER

Volume 14, #40 10/18/96

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

WEEKLY CALENDAR.....

Oct 19 DISCOVER HORTICULTURE
OPEN HOUSE, 10:30 am - noon, 310
Alderman, Tours at 10:30 & 11:30 am.
Parents, students, everyone welcome.

Oct 21 AnSc. Dept. Head Candidate
Seminar, Leading a Land Grant University
Department of Animal Science into the
21st Century, Dr. Frederic N. Owens, 2-4
pm, 110 Peters Hall.

Oct 21 PIBr Seminar, Cultivar choices:
Making the difficult decision, Dale Hicks,
3:30 pm, 306 BorH.

Oct 22 PBS Colloquium, Regulation of the
assembly of a multi-protein-DNA complex
on the *Arabidopsis* Calmodulin-3
promoter, Dan Szymanski, Post-doctoral
Associate, GCB, 3:30 pm, 306 BorH.

Oct 23 COAFES Career Day `96, 10 am -
3 pm, Northstar Ballroom. Students and
faculty members are encouraged to
attend. There are many employers
represented and is a valuable opportunity
for students to make contacts.

Oct 23 Undergraduate Affairs
Committee (UAC), 1 pm, 398 AlderH.

Oct 23 Faculty Consultative Committee
(FCC), 2 pm, 398 AlderH.

Oct 23 Hort Department Seminar, The
conversion to semesters: How to do it?,
The Undergraduate Affairs Committee,
3:30 pm, 415 AlderH.

Oct 24 AnSc. Dept. Head Candidate
Seminar, Leading a Land Grant University
Department of Animal Science into the
21st Century, Dr. H. Allen Garverick, 2-4
pm, 110 Peters Hall.

Oct 24 Hort 8066, Mapping the
desynapsis gene for marker assisted
selection in diploid potatoes, Jan E.
Backlund, 4:05 pm, 310 AlderH.

Oct 25 BioAgEng Seminar, Duckweed for
waste water treatment, Dr. Warren
Poole, Vice President, Lemna Corp, 1:30
pm, 106 BioAgEng.

FAREWELL.....to Jim Lutz, who achieved
his Masters in the Department of
Horticultural Science, and has accepted a
job with Brighton By-Products, a
horticultural supply company servicing
greenhouses and nurseries in
Pennsylvania. "I am thankful for my time
as a graduate student in the department,
and will miss everyone very much. Thanks
to all my friends in the department for
making my time in Minnesota so
wonderful." Good Luck, Jim.

WELCOME.....

JILL MAC KENZIE....."I'm interested in
growing food, in the cultural practices
involved when we get the earth to
provide for us. I distrust science and
technology and want to learn about
traditional ways of growing food. My plan
for my Plan B project is to interview
some older Hmong women and learn about

the way they gardened in Laos. Since I'm shy and they don't speak English, what to expect. I'm not sure." Jill's advisor is Emily Hoover. Say hello to Jill in room 290 Alderman Hall.

"Hey there! I'm GREY HORTON and I'm going after a PhD. I want to be a plant breeder, preferably working on a crop that I like to eat (i.e., no soy beans). I grew up just north of San Francisco in a Hippie/Yuppie kind of area. BMW's with Greatful Dead stickers. Wierd. I got my B.S. in Bioresource Research from Oregon State University (Go Beavers!). I did an undergrad research project with Dr. Shawn Mehlenbacher, on gene linkage between red leaf color and the incompatibility loci. The coldest winter I've ever seen was four inches of snow (my freshman year). Strategies for handling cold weather and winterizing my truck would be appreciated. By the way, I also worked with the infamous Dr. Chad Finn during my last two summers at Oregon State. I would love to share stories, if you have any, or just gossip if you don't. Come on by my office (390) at let's chat!"

AMY SMITH writes "I am doing my Master's degree in Horticulture and my adviser is Bud Markhart. I am from two military families, Army and Air Force so have travelled lots. I went to high school and college in Arizona and received my B.S. degree in Biology from ASU. My primary interest is in turf and urban forestry. I sincerely hope I don't freeze when I experience a snowy winter for the 1st time in 10 years." Amy's office is 290 Alderman.

LAURA PERRY....."I grew up on the Atlantic Coast in Rhode Island. Before I

came to Minnesota, the farthest west I had been was eastern Ohio, so this is definitely something different! I love hiking, camping, backpacking, and canoeing, and I'm already getting excited for my first trip to the Boundary waters next summer! I received my B.A. in Biology a year ago from Swarthmore College, a small liberal arts college in Pennsylvania. In the last year, I've worked as a lab tech at UMN and have done some of my own research back in Pennsylvania. I spent four months this spring traveling around Europe - a fantastic and life-changing experience that I love to talk about! Sue Galatowitsch will be advising my graduate work in the Hort department. My thesis research will address some practical questions pertaining to sedge meadow wetland restoration. In particular, I'm interested in evaluating how effective annual cover crops can be in preventing invasion by perennial weeds in restored wetlands." Introduce yourself to Laura in room 358 Alderman.

PAUL MC CUNE-ZIERATH "I graduated from the University of Illinois in '83 with a B.S. in Chemistry. After working as an organic chemist for three years at Eli Lilly & Co., I attended the Lutheran School of Theology at Chicago where I earned a M.A. in Theology. I then worked for two years as a carpenter rehabbing old homes in the Chicago area. When the housing industry plummeted in 1990, I became a technician in a lab at the University of Chicago. I moved to the Twin Cities in 1992 to be closer to family and have worked for Judy Berman in the Plant Biology at the U of M, first as a technician and then as a graduate student in the Plant Biology Graduate Program. I wanted to work more with

plants so I have changed labs and have Dr. Carter and Dr. Smith as my advisor." Visit with Paul in room 380 Alderman Hall.

ATTENTION PHOTO ROOM (295 AlderH) USERS.....It's time for a clean up! I plan to discard unlabeled and orphan solutions, chemicals, and misc. stuff. If you have things stored there that you wish saved, label them with your name and the contents (for solutions) and date of first sue. Inclaimed, scary, bottles of fluid, some from the beginning of time, are going OUT! I'd be delighted to have a volunteer(s) to help do this. Thanks.....Betsy Zimmermann

FREE ADMISSIONS.....to students, staff and faculty in the COAFES and Architecture and Landscape Architecture.

ANY INTEREST????????John Carter is planning to offer Hort 8045, Plant Response to Environmental Stress, 3 cr., during Winter Quarter 1997 on MWF 1010-1100. Please get in touch with him if interested. Call number to register is 075661. Winter Quarter registration begins November 18.

ANY INTEREST????? Dariush Danesh is trying to solicit funding for PIPa 5090, Plant Bacteriology, 3 cr. Contact Dariusch at 625-2221 if you plan to take this course or have any interest.

1996-97 BUSH SABBATICAL SUPPLEMENT PROGRAM.....is brought to the attention of tenured faculty. Contact COAFES Dean's Office for specific instructions since deadlines vary from one collegiate unit to another.

AGNES HANSEN AWARD.....Xi Chapter of Sigma Delta Epsilon has established awards in memory of Agnes Hansen and Mary Haga to defray some costs of female graduate students for travel to national or other major scientific meetings where they are presenting the results of their research. Deadline to apply is October 18. Dr. Kimerly Wilcox, General College, 140 Appleby Hall, wilco001@maroon.tc.umn.edu

U CARD OFFICE.....will be issuing U cards on the St. Paul Campus for two weeks (Oct 9-23) between the hours of 11am-1:30 pm and 4-6 pm weekdays at the St. Paul Gym.

SCIENCE CENTR UM (Connections for K-12 & University Educators).....call for proposals with a deadline of October 28. Research explorations provides extra hands and inquiring minds to assist faculty research. See Evonne in the main Hort office for the proposal form.

MAROON & GOLD CASUAL FRIDAYS.....each Friday beginning October 11, Goldy Gopher and his Prize Patrol will visit randomly selected departments. Thgose office staff wearing M & G or MN apparel will be eligible for a prize drawing. To encourage the wearing of U of M clothing on Fridays, see Evonne for a staff discount coupon good for M & G apparel at University Bookstores.

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GO GOPHERS

TWIG BENDER

Volume 14, #41 10/25/96
Department of Horticultural Science
305 Alderman Hall, St. Paul, MN 55108

WEEKLY CALENDAR.....

Oct 25 (Fri) Urban Landscape/Turf Pathology Research Associate Candidate Seminar, How to present research results to the user sector, Dr. Linda Treeful, Private Consultant, 2-3 pm, 491 BorH.

Oct 27 (Sun) Daylight saving time ends - set clocks back 1 hour.

Oct 28 (Mon) PB Seminar, Enhanced agricultural sustainability through biological nitrogen fixation, Carroll Vance, 3:30 pm, 306 BorH.

Oct 29 (Tue) PBS Colloquium, The small heat shock protein HSP30 protects *Neurospora* cells from injury at high temperature, Nora Plesofsky-Vig, 3:30 pm, 306 BorH.

Oct 29 (Tue) Annual Employee Health and Benefits Fair, *Juggling Act for the 90x: Finding Time for Yourself*, North Star Ballroom, SCSC, St. Paul Campus.

Oct 30 (Wed) GSC, 1 pm, 398 AlderH.

Oct 30 & 31 (Wed/Thr) Safety Meeting, FIRE! Speaker id Dan Siegler, Plant Pathology Greenhouse Classroom. Sign up by calling Roger Meissner at 4-3631 or email meiss003@maroon.tc.umn.edu

Oct 30 (Wed) Hort Seminar, Instructional computing at the University of Minnesota, Paul Brady, 3:30 pm, 415 AlderH.

Oct 31 (Thr) Hort 8066, Research Proposal: Weed seed banks in commercial strawberries, Faye Propsom, 4:05 pm, 310 AlderH.

Nov 1 (Fri) BioAgEng Seminar, Creative innovation in food product and process development, Dr. Phil Perkins, Director, Pillsbury Company, 1:30 pm, 106 BioAgEng.

Nov 1 (Fri) Urban Landscape/Turf Pathology Research Associate Candidate Seminar, How to present research results to the user sector, Dr. Julien Mercier, Research Associate, University of California, Berkeley, 2-3 pm, 491 BorH.

LOOKING AHEAD.....

Nov 5 (Tue) Urban Landscape/Turf Pathology Research Associate Candidate Seminar, How to present research results to the user sector, Dr. Stuart Falk, Research Associate, Cornell University, 2-3 pm, 491 BorH.

Nov 6 (Wed) The Institute of International Studies & Programs and the Minnesota International Center cordially invite visiting international faculty, scholars, and staff and their faculty mentors and departmental sponsors to a reception in their honor, 5-6:30 pm, Dolly Fiterman Riverview Gallery, Frederick R. Weisman Art Museum, 333 East River Road, Minneapolis. Program begins at 5:30 pm.

OVER

Nov 8 (Fri) Urban Landscape/Turf Pathology Research Associate Candidate Seminar, How to present research results to the user sector, Dr. Carmen Raikes, Research Associate, University of Georgia-Griffin, 2-3 pm, 491 BorH.

Nov 16 (Sat) Ken McNeil is coordinating a Summit Brewery Tour from 1-3 pm. The sign up is across from the faculty mailboxes - limited to 40 people.

WELCOME.....

ALISON CUTLAN....."I am a native Minnesotan and have lived most of my life in the St. Paul/Minneapolis metro area. I completed my undergraduate program here at the U of MN and received a B.S. degree in Genetics and Cell Biology. I am a new student to horticulture, as my research interests have changed from *Drosophila* developmental genetics to floriculture. I will be working on my Masters degree with Dr. John Erwin, researching alternative cut flower crops, light requirements for greenhouse rose cultivars, and creating production schedules for 'proven winner' plant material. I am excited to be here!" Alison's office is 426 AlderH. Get acquainted.

GINNY COYLE.....writes "While it took me 10 years to complete an undergrad degree in Horticulture here (progress was slowed by 2 more children), I Plan to finish a Master's in a much more timely manner. I'll be working with Harold Pellett in a project involving trees selected for growing in stressed or polluted conditions, possibly also looking at their role in bioremediation of polluted sites. Working at Dia U and now as customer service for a grounds

maintenance landscape company has given me first hand experience helping homeowners cope with damaged or stressed trees. I'm looking forward to learning more." Say hello to Ginny in 440 AlderH.

Next week.....last but not least will be articles from Ryan Warner and Nicole Wagner, Master's students working with John Erwin. The department has 10 new graduate students this Fall and you have been introduced to all of them but two.

MAROON & GOLD CASUAL FRIDAYS the 25% discount coupons for faculty and staff are available from Evonne in the main office. Limited supply so hurry.

LOST.....a simple gold band with the date 12-8-95 stamped inside. Was lost near the meters close to the teaching garden between Hodson & Alderman. Please call Harvey Lewis at 642-9884 if you find it.

COOPERATION.....the main office staff is asking for your cooperation to help keep our new carpet clean. You can do so by using the back hallway to get to the conference room 398 for meetings and the accounting office. We are ordering additional 'WIPE mats' which will be located outside the entrances to the office and signs will be posted that will help in directing persons to accounting and 398. Thanks for your consideration.

HORN TOOTING.....congratulations to the following graduate students who attended national meetings of various organizations and presented.

Ami Erickson presented a poster entitled *The importance of heat and*

water stress on abortion of flowers in capsicum annuum and fuschia sp. at the American Society of Plant Physiologist's (ASPP) Meetings in San Antonio, Texas July, 1996.

Ken McNeil presented a poster entitled *Characterization of proteins encoded by tapetal-specific genes in tomato* at the American Society of Plant Physiologist's (ASPP) Meetings in San Antonio, Texas July, 1996.

ROBERT-JAN W. QUENE gave a oral presentation entitled *Inheritance of characters important to drought tolerance in New Guinea Impatiens (Impatiens hawkeri)* at the American Society for Horticultural Science (ASHS) Meetings in Lexington, Kentucky, October, 1996.

KERRY M. STROPE gave a oral presentation entitled *Effects of heat stress on floral and vegetative development in New Guinea Impatiens* at the American Society for Horticultural Science (ASHS) Meetings in Lexington, Kentucky, October, 1996

DANIEL F. WARNOCK gave an oral presentation entitled *Evaluation of two visual scales to estimate European corn borer ear feeding damage in sweet corn* and presented a poster entitled *Initial screening of sweet corn tissues for allelochemicals which affect European corn borer larval development* at the ASHS meetings in Kentucky, October, 1996.

LESLIE A. YETKA gave an oral presentation at the 17th Annual National Meeting of the Society of Wetland

Scientists held in Kansas City, Missouri, June, 1996

These students were funded in part from the Graduate School Block Grant Fund awarded to the Horticulture Graduate Program. You can learn more about their experience by attending Hort 8066 where they share their knowledge. Congratulations again!

GO GOPHERS

MAROON & GOLD
CASUAL FRIDAYS

TWIG BENDER

Volume 14, #42 11/1/96

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

WEEKLY CALENDAR.....

Nov 5 (Tue) Urban Landscape/Turf Pathology Research Associate Candidate Seminar, How to present research results to the user sector, Dr. Stuart Falk, Research Associate, Cornell University, 2-3 pm, 491 BorH.

Nov 5 (Tue) Safety Meeting, Recent Changes to the EPA Worker Protection Standard, Dean Herzfeld, Dept. of Plant Path, 10-11 am, 335 BorH.

Nov 5 (Tue) PBS Colloquium, Expression and Function of Two Arabidopsis Thaliana Histone H1 Genes, Sandra Orcutt, PBS Graduate Assistant, 3:30 pm, 306 BorH.

Nov 6 (Wed) UAC Meeting, 12 noon, 398 AlderH.

Nov 6 (Wed) Promotion & Tenure Faculty Meeting (Review Assistant Professors), 1-3 pm, 310 AlderH.

Nov 6 (Wed) Department Seminar, Plant Collecting in Kazakstan, Harold Pellett, 3:30 pm, 415 AlderH.

Nov 6 (Wed) Reception for International faculty, scholars, and staff, 5-6:30 pm, Dolly Fiterman Riverview Gallery, Frederick R. Weisman Art Museum.

Nov 7 (Thr) FCC Meeting, 2-3:30 pm, 398 AlderH.

Nov 7 (Thr) Hort 8066, Discussion of October 24 Post-Harvest Prelim Question, Drs, Tong, Li, Rosen, 4:05 pm, 310 AlderH.

Nov 8 (Fri) BioAgEng Seminar, Practical Issues in Minnesota Drainage Laws, Mr. Kurt Deter, Rinke-Noonan, Attorney at Law, 1:30 pm, 106 BioAgEng.

Nov 8 (Fri) Urban Landscape/Turf Pathology Research Associate Candidate Seminar, How to present research results to the user sector, Dr. Carmen Raikes, Research Associate, University of Georgia - Griffin, 2-3 pm, 491 BorH.

WELCOME.....Ryan Warner writes "I am a Master's student in the floriculture program, working with John Erwin. I am native to Michigan and have lived there my entire life. I graduate from Michigan State (27-9, remember) in May with a G.S. in Horticulture. My thesis work will focus on the flowering requirements of species in the genus *Hibiscus*. We hope to identify some species with ornamental potential to perform more intensive studies on, leading to production schedules and eventual introduction into the commercial floriculture market. When I'm not thinking about horticulture (which is, of course, a very minute part of the time), I enjoy playing guitar, camping, and seeing live bands as often as possible". Ryan's office is on 3rd floor (380), so stop in for coffee.

OAK TABLE for sale.....48" round light oak in color, water-resistant finish, four matching chairs. It's a heavier, "kitchen" style set, 6 yrs old, excellent quality, near-perfect condition, 18" leaf. \$350. Contact Doug Foulk 724-7181 or foul0001@gold.tc.umn.edu

OFFICE CLOSED DURING MOVE.....COAFES Student Affairs (this includes Laurie Hayes, Associate Dean for Curricular & Student Affairs, Prospective Student Services, Student Services, Career Services) will move to 120 BioAgEng Building on Nov 4,5,6. Open for business November 7.

PUBLICATION AWARDS.....Mary Meyer, Harold Pellett, and Don White won one of 6 Extension Publication Awards, Consumer Ornamental Floriculture and Turf category at the recent ASHS meeting. The grass publication was titled Ornamental Grasses for Cold Climates. Congratulations!

HORT TOOTING AGAIN.....After last weeks article on the graduate students who not only attended but presented papers/posters at various national meetings, we received word on the following winners of awards:

Daniel Warnock, ASHS, placed third on his poster, *Initial screening of sweet corn tissues for allelochemicals affecting European corn borer larval development*. Poster is on display in the lobby.

Leslie A. Yetka, SWS, received honorable mention for best student paper, *Enhancing Carex establishment using rhizomes as propagules during wetland restorations*.

Rachel Budelsky, SWS, received best student paper for her presentation, *Establishment strategies in Carex: Implications for restoration*.

Only five students were recognized at the Society of Wetland Scientists so this is quite an honor. Congratulations to everyone!

GO GOPHERS

MAROON & GOLD
CASUAL FRIDAYS

TWIG BENDER

Volume 14, #43 11/8/96
Department of Horticultural Science
305 Alderman Hall,
St. Paul, MN 55108

WEEKLY CALENDAR.....

Nov 11 (Mon) PIBr Seminar, Breeding for scab resistance in wheat, Robert Busch, 3:30 p.m., 306 BorH.

Nov 1 (Mon) Full Professors Review of Associate Professors, 1 pm, 310 AlderH.

Nov 12 (Tue) PBS Colloquium, Auxing-Regulated Transcription: Cis-Elements and Trans-Factors, Professor Thomas Guilfoyle, University of Missouri-Columbia, 3:30 p.m., 306 BorH

Nov 12 (Tue) Safety Meeting, Minnesota Employee Right-to-Know Act, Dan Siegler, 9:00, 10:00, 11:00 am, and 1:00 pm, 335 BorH.

Nov 13 (Wed) Faculty Meeting, 1-3 pm, 310 AlderH.

Nov 13 (Wed) Department Seminar, Bioassay identified Ear Tissue Resistance to European Corn Borer, Ostrinia nubilalis (Hubner): Preliminary Findings, Daniel Warnock, 3:30 pm, 415 AlderH.

Nov 14 (Thr) Prelim Exam Day, 8-4 pm, pick up question from Evonne in main office.

Nov 14 (Thr) Civil Service Meeting, 1 pm, 310 AlderH.

Nov 14 (Thr) GCB Seminar, DNA sequence data and the comparative approach: Blackbird stories, Scott Lanyon, Dept. of EEB, Bell Museum, 3:30 pm, 365 BorH.

Nov 14 (Thr) Hort 8066, A Novel Selection Scheme for the Identification of Regulatory Genes, Paul McCune-Zierath, 4:05 pm, 310 AlderH.

Nov 15 (Fri) Modeling of Flow and Transport Processes in Porous Media, Dr. John Nieber, 1:30 pm, 106 BioAgEng.

Nov 15 (Fri) COAFES Scholarship Reception, 3:30 pm, EBC

Nov 16 (Sat) Summit Brewery Tour, 1-3 pm, sign up in back hallway or see Ken McNeil.

WELCOME.....

Nicole Wagner writes "I am from Rochester, Minnesota and earned my bachelor's degree from the University of Minnesota in Biosystems and Agricultural Engineering this past August. During my senior year of undergraduate studies, as part of a senior design class, I worked on a 3M project that involved solar panels in greenhouses. This project got me thinking about graduate level research and here I am! Because I am interested in alternative energy, especially solar products, I decided to work on this project as my thesis research for both the BAE and Horticulture departments".

Nicole is doing her MS with John Erwin serving as her advisor in Horticulture.

ACCOUNTING STAFF NOT AVAILABLE.....Angie and Patrice will be attending a business meeting on November 11 from 9 am to 2:30 pm.

LOOKING AHEAD.....The 3rd Annual Minnesota Turf and Grounds Foundation Conference and Trade Show, December 11, 12 & 13, Minneapolis, Convention Center. Four nationally known keynote speakers, 43 concurrent session speakers covering 66 topics, 300 trade show booths. There are nine Allied Associations participating: parks, cemeteries, golf course, soil and seed producers, landscape designers, contractors, maintenance firms, growers, arborists, sports turf and University and public school grounds. One of the largest shows of its kind in the nation. University faculty, staff and students are encouraged to attend. Special rate for students. Pre-registration are due NOV 15. Registration forms are available in the main office (305 Alderman Hall) or from Brad Pedersen. To be put on a future mailing list call 1-888-473-8873.

ATTENTION READERS.....if you are currently receiving this hard copy and would like to receive the Twig via your e-mail, please sign up on the list located across from the student mailboxes. Thanks.....Evonne.

GO GOPHERS

MAROON & GOLD
CASUAL FRIDAYS

TWIG BENDER

Volume 14, #44, 11/15/96

Department of Horticultural Science

305 Alderman Hall,

St. Paul, MN 55108

WEEKLY CALENDAR.....

MON (Nov 18) PIBr Seminar, Gene flow from transgenic plants to related species, Lynn Litterer, 3:30 pm, 306 BorH.

MON (Nov 18) Faculty Consultative Committee (FCC), 1:30 pm, 398 AlderH.

TUE (Nov 19) PBS Colloquium, Iconoclastic thoughts on the role of animal pollinators on plant speciation, Dr. Nick Waser, Univ. of California-Riverside, Dept. of Biology, 4 pm., 335 BorH.

TUE (Nov 19) Graduate Studies Committee (GSC), 11 am, 398 AlderH.

WED (Nov 20) Undergraduate Affairs Committee (UAC), 1 pm, 398 AlderH.

WED (Nov 20) Hort Seminar, Herbicide effects on containerized herbaceous perennials, Shannon Henrickson, 3:30 pm, 415 AlderH.

THR (Nov 21) Prelim Exam Day, 9-4 pm, pick up question from Evonne in main Hort office.

THR (Nov 21) Interruption of Alderman Hall electrical service, 12:01 am to 4:00 a.m. Concerns can be directed to Fred Clayton, 624-4940.

THR (Nov 21) Hort 8066, Factors affecting germination and seedling establishment of *Carex* spp. In restored wetlands. Laura Perry, 4:05 pm, 310 AlderH.

FRI (Nov 22) Biosystems and Ag Eng Seminar, The changing retail bakery industry and business, Dr. Robert Tang, Manager, International Multifoods, 1:30 pm, 106 BioAgEng.

SAFEETY TRAINING.....It is the supervisors responsibility to make sure their employee(s), who work in either field plots, greenhouse, or labs, participate in safety training. Speak with Roger Meissner about specifics.

THREE CHEERS.....for Jerry Pierson, who won the Hort/Entomology sweatshirt raffle Thursday, Nov 14. We collected \$30.00 extra dollars for the Charitable Partnership. Entomology gave their raffle money to the Partnership also. Many thanks to Entomology for the yummy treats and thanks to all who participated. Martha Piechowski

DEPT HOLIDAY PARTY DATE SET.....for December 6. Grey Horton is the chair and is in need of volunteers to help on the committee. Grey is a new graduate student so stop by his office (290 Alderman) and offer your assistance.

SELL-A-THON CONTINUES.....full-length sofa (81"), good condition, 6 yrs old, durable navy-blue fabric, throw pillows. A steal at \$75!!!!. Contact Doug Foulk, 724-7181 or foul0001@gold.tc.umn.edu

FULL-TIME POSITIONS AVAILABLE.....at the Minnesota Horticultural Society, 1755 Prior Ave. No., Falcon Heights. 1) Data Entry Technician and 2) Receptionist/Secretary. Call 643-3638.

NOTICE TO STUDENTS REGARDING NUMBER CHANGE IN COURSE.....if you are looking for the Landscape Design of Residential and Small Commercial Sites (Hort 3030) in the Winter Quarter class schedule, it's been re-numbered to Hort 5030 (Brad Pedersen, instructor). Also Hort 3040 is re-numbered to Hort 5041 and is offered Spring Quarter.

APPLICATIONS OF PLANT BIOTECHNOLOGY.....class times listed in the class schedule are correct and the class times listed on the flyer you found in your mailbox are incorrect.....Sorry about that!

COURSES FULFIL THE BIOLOGICAL SCIENCES DIVERSIFIED CORE REQUIREMENT.....
AnPI 3010, Environment and World Food Production, Drs. Steve Simmons and Mike White
AnSci 3510, Introduction to Human and Animal Growth and Development, Drs. Bill Dayton, Marcia Hathaway and Mike White. Information about these courses are posted on the easel in the lobby of Alderman

BEGINNING DOCTORAL STUDENTS.....The MacArthur Scholars Fellowships for 1997-98 are announced. Deadline for applications is February 3, 1997. Application forms are now available on the World Wide Web at our URL:
<http://cla-net.cla.umn.edu/iis/MAC2.html>

maroon & gold
casual Fridays

GO HOCKEY GOPHERS

TWIG BENDER

Volume 14, #45, 11/22/96

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

WEEKLY CALENDAR.....

MON (Nov 25) SWAC Seminar, Pathogen removal in constructed wetlands, Jenni Swenson, SWAC Graduate Students, 3:00 pm, 375 BorH.

TUE (Nov 26) PBS Colloquium, Regulation of cytosolic Ca in relation to ABA-induced chilling tolerance, Wen-Ping Chen, 3:30 pm, 306 BorH.

THR (Nov 28 & 29) Thanksgiving,
University Holiday

LOOKING AHEAD

Dec 2 PI Br Seminar, Value of computer simulation in plant breeding, Jean-Luc Jannink, 3:30 pm, 306 BorH.

Dec 4 UAC, 1 pm, 398 AlderH.
FCC, 2-3:30 pm, 398 AlderH.

Dec 4 & 5, Hort Club Holiday Plant Sale,
8 am - 6 pm, SPSC.

Dec 5 PBS Colloquium, How many genes make a Eukaryotic Cell (and what do they do)? Mark Johnston, Washington Univeristy, Department of Genetics, 3:30 pm, 306 BorH.

Dec 5 Hort 8066, Discussion of Nov 21 Ph.D. written preliminary exam, Drs, Fritz, Hoover, Rosen, 4:05 pm, 310 AlderH.

Dec 6 Horticulture Holiday Party -
faculty, staff and students invited, 310

AlderH. Contact Grey Horton to help with this event.

Dec 7 Reception for graduating students is held at Eastcliff. President Nils and Pat Hasselmo wishes to extend this invitation to graduating students and their families, 2:30-4:30. RSVP 624-6868.

FOREIGN NATIONAL TAX TREATIES FOR 1997.....eligible foreign national employees must complete new tax treaty forms for the calendar year 1997. Forms 8233 and Tax Treaty Affidavits must be turned into the payroll office by the following dates to ensure that their wages will not be taxes the first payday of the new year: Noon on December 20, 1996 for BIWEEKLY payroll and REGULAR payroll. Tax money that is withheld, WILL NOT be refunded through the payroll department. See Laura Kalisch (main Hort office) or Patrice Johnson (Hort accounting office) for the forms.

MOLECULAR BIOLOGY COURSE.....if there is sufficient interest (at least 10 students), Drs. Mark Strefeler and Alan Smith will teach for spring term 1997. The course would serve as an introduction to the terminology and techniques of molecular biology for students without a background in this area. If you would be interested, please contact Ryan Warner (warn0120@gold.tc.umn.edu).

maroon & gold casual Fridays

TWIG BENDER

Volume 14, #46, 12/6/96

Department of Horticultural Science

305 Alderman Hall,

St. Paul, MN 55108

TODAY.....Hort Department Holiday Party..... 3ish, Lobby/310 AlderH. Bring a gift for the dice toss game, pot luck item and bring your family. See ya there....

WEEKLY CALENDAR.....

MON (Dec 9) Final Exams continue through Dec 14

TUE (Dec 10) Pancake Breakfast, 7:30 am, 310 AlderH.

WED (Dec 11) Hort Faculty Meeting, 1-3 pm, 310 AlderH.

THR (Dec 12) Faculty Assembly, 1:30-3:30 pm, B35 COB

FRI (Dec 13) CBS Policy Council Town Meetings, 8:30 - 10:00 am, B25 COB.

FRI (Dec 13) Hort Department Scholarship Applications are due!

ELEVATOR.....will be out of commission from December 16-31 approx.

FREE STUFF.....older DOS-type software; a swivel-type desk lamp; also 2 Hide-A-Boards. If you can use any of this in your office, please see Angie Klidzejs in room 394.

MTGF.....The 3rd Annual Minnesota Turf and Grounds Foundation Conference and Trade Show, December 11, 12, & 13, Minneapolis Convention Center.

STUDENT EMPLOYMENT CENTER.....will be moving from Fraser to 170 Donhowe Building. They will be closed Dec 6 -13 to accommodate the move.

ENDOWED FELLOWSHIP AWARDS FOR 1997-98..... eligibility is limited to students who are currently registered in the Graduate School. The application deadline is March 10, 1997, except for the Woman's Club of Minneapolis Fellowship which is February 28, 1997. Contact Graduate School Fellowship Office, 321 Johnston Hall, 625-7579.

LOOKING AHEAD.....

Dec 16 Hort Department Bowling Party, 3 pm, SPSC. Sign up in back hallway.

Dec 18 GSC, 1 pm, 398 AlderH.

Dec 19 FCC, 9 am, 152 AlderH.

STUDY, STUDY, STUDY FOR THOSE FINAL EXAMS

HAVE A GREAT WEEKEND

NEXT WEEK WE RESUME MAROON & GOLD CASUAL FRIDAY

TWIG BENDER

Volume 14, #47, 12/13/96
Department of Horticultural Science
305 Alderman Hall,
St. Paul, MN 55108

MON (Dec 16) Hort Bowling Party, 3 pm,
SPSC Alley.

TUE (Dec 17) Horticulture grades due to
Evonne by noon

WED (Dec 18) GSC, 1 pm, 398 AlderH.

THR (Dec 19) FCC, 9 am, 152 AlderH.

SAT (Dec 21) Winter (Solstice) begins,
8:06 am

GOODBYE.....TOT ZIENS.....At the end
of December, we are leaving Minnesota.
Egbert has accepted a teaching position
in Soil Science at E.A.R.T.H., an
Agricultural College in Costa Rica. We
both had a great and learningful
experience here and we will certainly
miss the beautiful seasons. Happy wishes
for 1997 and the best to all. Maria &
Egbert Spaans. Our e-mail will be
espaans@mail.earth.ac.cr

GIFTS FOR THE GARDENER.....at the
Minnesota State Horticultural Society,
Center for Northern Gardening, 1755
Prior Avenue North. Shop for just the
right gift for your special gardener at
this special sales event. The dates for
shopping are Saturday, December 14,
Mon-Fri, Dec 16-20 (10 am to 4 pm each
day).

FACULTY SINGLE QUARTER LEAVE
APPS..... for 1997-98 are due on January
24, 1997. See Laura Kalisch for details

LOOKING AHEAD.....

December 24 and 25 - University Holiday
- offices closed.

January 1 - University Holiday - offices
closed.

January 6 - Winter Quarter classes
begin

MAROON & GOLD CASUAL FRIDAYS

TWIG BENDER

Department of Horticultural Science
305 Alderman Hall,
St. Paul, MN 55108
Volume 14, #48, 12/20/96

MON (Dec 23) Hort Dept. Scholarship Committee, 9 am, 152 AlderH.

TUE (Dec 24) University Holiday - offices closed

WED (Dec 25) Christmas Day - University Holiday

THR (Dec 26) University offices are open

FRI (Dec 27) Going away lunch for Ben Erickson, noon

BABY BOY BORN on December 2 to Dave & Barb Larson. They named him Derek Thomas and he is welcomed by big brother (15 months), Aaron. Derek weighed 7lb 7oz, 19 1/2". Congratulations! (I think) Two boys under 2 years. Good Luck!

BOWLING PARTY RESULTS.....A fun time was had by all on Monday, December 16 at the SPSC Bowling Alley. The following received certificates for \$10 off a turkey at a local food chain.

Highest Score = Chris Gran (civil service)

Lowest Score = Alison Eldridge (Mark Strefeler's wife)

First Bowled Turkey = Dan Peterson (undergraduate)

Second Bowled Turkey = Greg Nordwig (actually no one else got 3 strikes in a row so we drew names for this

certificate). Please come get your certificate, Greg.

See ya again next year.....

1997 SUMMER UNDERGRADUATE RESEARCH in Science and Engineering Disciplines, Independent research for 10 weeks (June 13-August 22, 1997). Application materials can be obtained from CBS, 625-2275. Decisions begin Feb 3 and deadline for all applications is March 3, 1997

FUMEHOOD SHUT DOWN.....between 8 am Dec 26 and 3:30 pm December 27 for Alderman Hall. You are notified. Concerns - call Ken Almer at 624-3211.

COURSES RENUMBERED.....Hort 3030 is now 5030 (landscape Design of Residential and Small Commercial Sites, 4 CR, Brad Pedersen, Instructor, WQ) and Hort 3040 is now 5041 (Landscape Design and Implementation, 5 CR, Brad Pedersen, Instructor, SQ).

Merry Christmas
and
Happy Holidays
TO ALL