

What: U of M-Midway job fair wins international award
Who: George Morse, professor of applied economics, (612) 625-9769
Contact: Roger Forrester, human resources director, U of M, (612) 624-7006

U OF M-MIDWAY JOB FAIR WINS INTERNATIONAL SERVICE AWARD

MINNEAPOLIS / ST. PAUL--A partnership program between the University of Minnesota and a St. Paul Midway business organization to bring jobs and job training to the community has received an international award.

The Midway Job and Opportunity Fair, sponsored by the university and University United, a St. Paul Midway nonprofit coalition of citizens and businesses, received an award from Business Retention and Expansion International for effectively implementing programs to bring jobs to the community and building school-business partnerships. Started three years ago, the program has hosted five job fairs, all free to the public in the Midway area. Each fair typically attracts more than 50 vendors offering job opportunities in many fields and about 800 job seekers.

Roger Forrester, director of human resources at the University of Minnesota and a member of the Midway Job Fair/Job Bank Committee, said the job fair has been a tremendous tool in linking the university and the community. "Our approach is to bring the jobs to the communities, not in the ivory tower at the U or in the suburbs," he said.

According to Forrester, the five job fairs in the Midway area in the last two years attracted about 3,000 applicants and resulted in 500 job placements. The university hired about 80 new employees as a result of the job fairs. In addition to providing job opportunities, the university assists the program in another area -- professors George Morse and Elizabeth Templin serve as consultants to the program and help in analyzing survey data.

"The theme of the university was and always will be working together as one with the community," Forrester said. "I truly believe that the word on the street is that we are for real and we do find jobs."

Business Retention and Expansion International is an association supporting business retention and expansion. Members are primarily individuals running state programs or consultants helping communities administer local programs. There are 174 members from 30 states and four nations -- United States, Canada, Australia and Norway. Minnesota has the most members of any state.

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What: U to establish Academy of Distinguished Teachers
When: 4 p.m. Tuesday, Jan. 19
Where: Cowles Auditorium, Humphrey Institute
Contacts: Linda Ellinger, Office of the Provost, (612) 626-9159
 Mike Nelson, University News Service, (612) 626-7701

ACADEMY TO PROVIDE ONGOING RECOGNITION OF OUTSTANDING TEACHING

MINNEAPOLIS/ST. PAUL--To ensure the continuation of world class instruction, honor exceptional teachers and publicly recognize the importance of teaching, the University of Minnesota will create the Academy of Distinguished Teachers at an inauguration and induction ceremony at 4 p.m. in Cowles Auditorium on the west bank of the Twin Cities campus/Minneapolis. Seventy-five faculty members representing all university campuses will be inducted.

Members of the academy will serve the university and their colleagues as mentors for new faculty, consultants on teaching improvement, spokespersons for teaching at the university and as advisers to chancellors, the provost and the president.

Academy members will serve five-year terms after receiving either the Morse-Alumni Award for Outstanding Contributions to Undergraduate Education or the Award for Outstanding Contributions to Graduate and Professional Education. Members will also receive a permanent salary supplement, a professional development supplement and use of the title "Distinguished Teaching Professor" during their career at the University of Minnesota.

The academy will eventually comprise 80 distinguished educators. □

News releases also on WWW at <http://www.umn.edu/urelate/news.html>

What: Minnesota Managed Care Forum
When: 8 a.m. Friday, Jan. 15
Where: Cowles Auditorium, HHH Institute, U of M West Bank
Who: Moderated by Dave Durenberger, Mike Hatch
Contact: Jim Thielman, University News Service,
 thielman@mailbox.mail.umn.edu, (612) 624-0214;
 Andrew Whitman, U of M Carlson School, (612) 425-4040

U OF M TO SPONSOR MINNESOTA MANAGED CARE FORUM

MINNEAPOLIS / ST. PAUL -- Whether the managed care health system serves Minnesota will be discussed at the Minnesota Managed Care Forum scheduled for 8 a.m. Friday, Jan. 15, at Cowles Auditorium in the University of Minnesota's Humphrey Institute.

"We'll run through what the market in Minnesota is like, and discuss strategies for private health care delivery people," says Andrew Whitman, professor of insurance at the University of Minnesota Carlson School of Management.

Two panels, moderated by Minnesota Attorney General Mike Hatch and Dave Durenberger, a former U.S. senator, will be presented. At 9 a.m. Hatch will moderate a panel on regulation, "Should Government Manage Managed Care?" At 10:10 a.m. Durenberger will moderate a panel on "Consumer Choice and Quality Care."

Representatives of the state health and commerce departments will be among the panelists, along with Ian Maitland of the Carlson School, Minnesota House majority leader Steve Sviggum and Maria Hanratty, an economist with the Humphrey Institute.

Among the issues covered in the panels will be the successes and failures in the private managed care market, the issue of costly new technology and whether tax assessments such as MinnesotaCare should be changed.

Registration begins at 6:45 a.m. followed by a 7 a.m. breakfast in the Carlson School cafeteria dining room. The program begins at 8 a.m. with state economist Scott Leitz discussing the Minnesota managed care market.

The event is sponsored through a collaboration between the University of Minnesota and the University of St. Thomas. □

What: U of M Bell Museum to present "The Mating Game"
When: Saturday, Feb. 13, and Sunday, Feb. 14, 6-8 p.m.
Where: Bell Museum of Natural History
Contacts: Nina Shepherd, Bell Museum, (612) 626-7254
 Mike Nelson, University News Service, (612) 626-7701

**BIRDS DO IT, BEES DO IT, EVEN EDUCATED FLEAS DO IT
 AT U OF M BELL MUSEUM MATING GAME TOUR**

If you're searching for love this Valentine's Day, take a tip from the birds, bees and other animals at the second annual Mating Game, a guided tour and dessert reception from 6 to 8 p.m. Saturday, Feb. 13, and Sunday, Feb. 14, at the University of Minnesota's Bell Museum of Natural History.

The lighthearted yet factual tour of the museum's habitat displays will focus on what it takes to get a "date" in the wild. Discover through sights, sounds, smell and touch how animals use dance, song and gifts to attract the opposite sex, why some suitors fight for a mate and why monogamy doesn't necessarily mean fidelity in the wild.

Cost: \$16 per person/\$30 per couple for Bell Museum members; \$20 per person/\$35 per couple for nonmembers. For reservations and more information call (612) 624-9050.

The Bell Museum is located at 10 Church St. S.E. on the university's Twin Cities/Minneapolis campus. □

News releases also on WWW at <http://www.umn.edu/urelate/news.html>

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What: U of M regents launch search for permanent executive director
When: Tuesday, Jan. 19
Who: William Hogan, chair, Board of Regents, (612) 474-7457
Contact: Bill Brady, U News Service, brady005@tc.umn.edu, (612) 625-8510,
 (612) 880-3056 (pager)

STATEWIDE SEARCH LAUNCHED FOR EXECUTIVE DIRECTOR TO U OF M REGENTS

MINNEAPOLIS / ST. PAUL--A statewide search for a permanent executive director and corporate secretary to the University of Minnesota board of regents began today (Jan. 19). William Hogan, chair of the board, has appointed a four-member search committee, chaired by Regent Robert Bergland. Other members of the committee are Tonya Brown, President Yudof's chief of staff; Sara Evans, history professor and chair of the Faculty Consultative Committee; and Greg Fox, vice chancellor for finance and operations on the Duluth campus. Input from community members is also being sought.

The executive director and corporate secretary is responsible for the daily operations of the board of regents office, which provides research and information to the regents, makes logistical arrangements for board meetings, documents regental actions, reviews regents policies and facilitates contact between regents and other parties, both internal and external to the university. The position had been held by Steve Bosacker, who left in November to become chief of staff for Gov. Jesse Ventura. It is being filled on an interim basis by Gregory Brown.

Applications should be sent to: Board of Regents Search Committee, c/o Karen Linqvist, Office of Human Resources, University of Minnesota, 16 Morrill Hall, 100 Church Street S.E., Mpls. MN 55455. The committee will begin reviewing applications Monday, Feb. 8, but will continue to accept them until the position is filled, which is expected by April 1. Inquiries should be addressed to Karen Linqvist at (612) 624-9817. □

starwatch

University News Service
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UNIVERSITY OF MINNESOTA FEBRUARY STARWATCH

by Deane Morrison

The full moon takes a month off in February, but not to worry. Venus and Jupiter stage the year's most spectacular meeting of planets, and we get a good chance to see the ephemeral delights known as the zodiacal light and the Gegenschein.

Venus and Jupiter are already bright in the southwest after sunset. Venus is much lower, but climbs higher as the days go by. On the 1st, the planets appear 22 degrees apart, but the gap narrows by one degree per day. On the 23rd, Venus will sweep just north of Jupiter. The planets will come within about a quarter degree, or half a full moon, of each other. After that, they'll continue to separate; by the 28th, Venus will have moved five degrees above Jupiter.

Mercury joins its brighter cousins in the second half of the month. On the 23rd, look for Mercury close to the horizon, to the lower right of the Venus-Jupiter pair. On subsequent nights the "messenger of the gods" gets higher but remains fairly close to the horizon below Jupiter and Venus.

Saturn, also an evening planet, comes out high in the southwest above Jupiter and Venus. In the last week of February, if Mercury is high enough, you may see all four planets--Mercury, Jupiter, Venus and Saturn--extending in line from the horizon. On the 17th, 18th and 19th, a waxing crescent moon will glide through the lineup of planets. Next month, Saturn will pair up with Venus and the crescent moon will make another round of visits.

Mars rises before midnight behind the bright star Spica in Virgo. The red planet comes up earlier and waxes brighter for the next couple of months as Earth closes in on it. Mars will appear directly opposite the sun in late April and will be closest to Earth May 1.

On the 10th, Pluto reclaims its position as the outermost planet, a distinction it lost in 1979, when it crossed over the orbit of Neptune. At this point, both Pluto and Neptune are almost exactly 2.8 billion miles from the sun. Now that it is again the most "way out" planet, Pluto will hold the title for the next 230 years--assuming no even more distant planets are found. Discovered in 1930 by Clyde Tombaugh,

Pluto is 800 times fainter than the faintest objects visible to the naked eye. It can be found above the red star Antares in Scorpius, a summer constellation.

The bright winter constellations are still high in the evening sky. Sirius, the brightest of all, forms a solid base for the grouping in the south. To the east, Leo prances forward as a harbinger of spring.

The moon will be new on the 16th. Therefore, the middle of the month will offer the darkest skies and the best chance to see the zodiacal light and the Gegenschein. The zodiacal light appears as a faint glow along the sun's path an hour or two after sunset. The second week of the month will also be good for finding the zodiacal light, because the moon won't be up until very late that week. The Gegenschein, or counter glow, can be seen around midnight, high in the sky along the sun's path. The third week in February will be better for seeing the Gegenschein because the moon will set before midnight that week. Both the zodiacal light and the Gegenschein are reflections of sunlight from dust left by meteors in the plane of the solar system.

The 2nd of February, or Groundhog Day, has astronomical roots. It's a cross-quarter day, falling halfway between the winter solstice and the vernal equinox. The ancient Celts called it Imbolc, or lamb's milk, because it marks the beginning of lambing season. It was also called Brigantia, for the Celtic goddess of light, in honor of the sun being halfway on its northward journey to the equinox. It wasn't considered a good omen if the day itself was bright and sunny; that presaged snow and frost for the next six weeks. Clouds, however, foretold warm rains to soften the fields in time for planting. That belief survives in our modern Groundhog Day ritual. The day was called Candlemas in England to denote the lighting of church candles for the feast of the presentation of the Christ child in the temple in Jerusalem.

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Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:
Deane Morrison, University News Service, (612) 624-2346,
dmorris@mailbox.mail.umn.edu

1/20/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

MUR
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9/1/99**What: Two of 60 national science and engineering awards****Who: Rhonda Drayton, (612) 626-8978
Guillermo Sapiro, (612) 625-1343****Contact: Deane Morrison, University News Service, (612) 624-2346****YOUNG U OF MINNESOTA FACULTY WIN TWO COVETED NATIONAL AWARDS**

MINNEAPOLIS / ST. PAUL--Two members of the University of Minnesota's department of electrical and computer engineering are among the 60 young scientists and engineers nationally to win Presidential Early Career Awards in Science and Engineering (PECASE awards). The awards guarantee \$100,000 of research support annually for five years. Winners will receive the awards Feb. 10 at a White House ceremony.

Nominees for the award are selected by federal agencies from a list of young researchers who have already received grant support from those agencies. Winners are selected by the White House Office of Science and Technology.

"We hit the jackpot, getting two of these awards in one department," said Mostafa Kaveh, head of the electrical and computer engineering department. "The future of any department rests heavily on its young faculty, and it's wonderful to have young researchers and educators get national recognition and support to jump-start their efforts."

The winners:

Rhonda Drayton, an assistant professor who joined the university last fall, received a bachelor's degree in electrical engineering from Texas A&M University and master's and doctoral degrees in electrical engineering from the University of Michigan. Her research centers on the use of a technique called micromachining to better shield integrated circuits from interfering signals in wireless, mobile and satellite communications systems. A native of Houston, she was nominated for the award by the National Science Foundation.

Guillermo Sapiro, also an assistant professor, joined the university faculty in 1997. He received bachelor's, master's and doctoral degrees in electrical engineering from the Technion, Israel. His research focuses on computer vision and image processing, including magnetic resonance imaging in a medical context. A native of Uruguay, he was nominated by the Office of Naval Research. □

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news

What: Art and Science of the Motorcycle
When: 7 p.m. Thursday, Feb. 4
Where: 175 Willey Hall, U of M West Bank
Who: Charles Falco, (520) 621-6771 (before Feb. 4)
Contacts: Jim Thielman, University News Service,
 thielman@mailbox.mail.umn.edu, (612) 624-0214,
 Kris Kosek, U of M Institute of Technology, (612) 626-8282

PROFESSOR TO DISCUSS ART AND SCIENCE OF MOTORCYCLE AT U OF M

MINNEAPOLIS / ST. PAUL -- Charles Falco, a professor of optical sciences at the University of Arizona with a life-long interest in motorcycles, will discuss how motorcycles became a cultural icon and a lever to social change at 7 a.m. Thursday, Feb. 4 in 175 Willey Hall at the University of Minnesota in Minneapolis. Falco was curatorial adviser for last year's the Art of the Motorcycle exhibition at the Guggenheim Museum in New York. The free lecture is sponsored by the University's Institute of Technology.

Falco says many objects of industrial design played various roles in society, and motorcycles are no exception. He will examine the technological, cultural, sociological and gender-related factors that resulted in standard production motorcycles. Falco says all the components of a modern motorcycle, which was invented in 1871, were essentially in place by 1903, and changes in the 96 years since have been largely the result of evolutionary refinement rather than revolutionary invention.

Falco, who owns 15 motorcycles and reputedly has the world's largest private collection of English-language motorcycle books, is also a fellow of the American Physical Society and holds the Chair of Condensed Matter Physics at the University of Arizona. The Guggenheim exhibition for which he was an adviser set attendance records in New York and is now open in Chicago. The exhibition is also scheduled for Germany, Spain and Italy.

Falco's speech will be preceded by a display of motorcycles from about a half-dozen area dealers, and he will be available to answer questions during this period. □

What: Evening of jazz and Langston Hughes poetry
When: 7:30 p.m. Friday, Feb. 5
Where: Ted Mann Concert Hall
Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
 (612) 624-8038

U OF M SCHOOL OF MUSIC PRESENTS LANGSTON HUGHES POETRY SET TO JAZZ

MINNEAPOLIS / ST. PAUL--The University of Minnesota School of Music and department of Afro-American and African studies will present an evening of images, jazz and poetry by Langston Hughes at 7:30 p.m. Friday, Feb. 5, in Ted Mann Concert Hall. Titled "The Langston Hughes Project: 'Ask Your Mama: Twelve Moods for Jazz,'" the multimedia performance features the Ron McCurdy Quartet, spoken-word artists John Wright and Dawn Renee Jones, images by Gordon Parks and Romare Bearden, and photos of the Harlem Renaissance. Ron McCurdy, director of jazz studies at the School of Music, orchestrated the musical cues provided by Langston Hughes for the ensemble.

Hughes began writing the 800-line poem "Ask Your Mama: Twelve Moods for Jazz" in the early 1960s, inspired by the Newport Jazz Festival of July 1960, where he shared the stage with Louis Armstrong, Dizzy Gillespie, Horace Silver, Dakota Station, Oscar Peterson and other jazz luminaries. Hughes wrote with the idea of a musical collaboration with Charlie Mingus, but Mingus died before the project could be developed. Hughes later discussed a collaboration with composer and pianist Randy Weston, but Hughes died in 1967 with a performance of the poem still in the planning stages.

Through the scholarship of John Wright of the university's Afro-American and African studies department, along with musical director McCurdy, who also holds a faculty appointment in the department, "Ask Your Mama" was given its first fully orchestrated national premiere in 1994 at the opening of the university's Weisman Art Museum. Since then, performances have been held throughout the country.

Admission is \$15 for adults and \$7 for students and seniors. For ticket information, call the Northrop ticket office at (612) 624-2345. For more information, contact Pat Solstad at the School of Music, (612) 624-0326, or Anise McDowell at the Afro-American and African studies department, (612) 624-0362. □

What: Children's rainforest exhibit
When: Feb. 28-June 27
Where: Bell Museum of Natural History
Contact: Nina Shepherd, Bell Museum, sheph001@tc.umn.edu,
 (612) 626-7254
 Deane Morrison, University News Service, (612) 624-2346

CHILDREN'S RAINFOREST EXHIBIT OPENS AT U OF M BELL MUSEUM

MINNEAPOLIS / ST. PAUL--Children can venture onto a canopy walkway and explore the layers of a tropical rainforest in a new children's exhibit built by Twin Cities students opening Sunday, Feb. 28, at the University of Minnesota's Bell Museum of Natural History in Minneapolis. "Rainforest: A Wet and Wild Adventure" looks at the plants, animals and cultures of tropical and temperate rainforests around the world.

Highlights of the interactive, multisensory exhibit include a wood and rope walkway that simulates treetop bridges used by Amazon explorers, an American Indian longhouse representing the Hoh people of Washington state, and performance art videos and interactive games that teach about the rainforest ecosystems and water quality preservation.

The exhibit is presented in conjunction with this year's JASON Project, a multidisciplinary school curriculum coordinated in Minnesota by the Bell Museum. It connects middle-school science students around the world with researchers on science expeditions via live satellite broadcasts and fiber optics.

The Bell Museum is located at University and 17th avenues S.E. Hours are 9 a.m. to 5 p.m. Tuesday through Friday, 10 a.m. to 5 p.m. Saturday and noon to 5 p.m. Sunday. Admission is \$3 adults, \$2 seniors and children. For more information, call (612) 624-7083. □

media advisory

University News Service
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Minneapolis, MN 55455
612-624-5551

What: Ventura visits U Cancer Center
When: Monday, Feb. 8--Tour at 8:45 a.m., availability at 9:30 a.m.
Where: 450 Cancer Center Research Bldg., 425 East River Road, Mpls.
Contact: Teri Charest, AHC Communications, (612) 624-4604
 John Wodele, Ventura Communications Director, (651) 296-0058

VENTURA TO TOUR U CANCER CENTER, MAKE CANCER RESEARCH STATEMENT

MINNEAPOLIS / ST. PAUL--Gov. Jesse Ventura and Health Commissioner Jan Malcolm will visit the University of Minnesota Cancer Center on Monday, Feb. 8. Ventura will end his visit with a statement on the importance of cancer research at 9:30 a.m. in room 450 of the Cancer Center Research Building, 425 East River Road, Minneapolis.

Ventura and Malcom will begin their visit by meeting with Dr. John Kersey, director of the Cancer Center, and tobacco researchers from 8:15 to 8:45 a.m. The group will then tour the Cancer Center and hear from people on the front line of cancer research about the possibilities of their work.

- **8:45 a.m.** Ventura and Malcom will meet with Dr. Steven Hecht, known internationally for his understanding of how the body metabolizes tobacco-specific carcinogens. Hecht is one of the few researchers in the world who can detect and measure carcinogens in the body.
- **9 a.m.** A team of leukemia researchers will describe advances in the treatment of the disease since the first successful bone marrow transplant was performed at the university in 1968. Dr. Catherine Verfaillie will demonstrate future techniques for treating leukemia, such as gene therapy, by showing the group how her team corrects defective genes.
- **9:10 a.m.** Dr. Dan Vallera will describe how new technology has enabled him to design mice that model human disease and what he will learn from these animals.
- **9:15 a.m.** Dr. John Wagner, one of the first physicians in the world to perform an umbilical cord blood transplant, will explain and demonstrate the process using a real placenta.
- **9:30 a.m.** Ventura, Malcom and Kersey will be available for questions from the media. Because the governor wishes to concentrate on the presentations during the tour, he requests that reporters hold questions until this time.

The University of Minnesota Cancer Center was designated a comprehensive cancer center by the National Cancer Institute in 1998. □

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What: New finding on the effect of smoking
Who: Stephen Hecht, Ph.D., (612) 624-7604
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U STUDY FINDS CARCINOGENS LINGER WEEKS AFTER SMOKING CESSATION

MINNEAPOLIS / ST. PAUL--Researchers with the University of Minnesota Cancer Center have found that tobacco-specific carcinogens remain in the body at significant levels six weeks after smoking cessation, and at low levels for up to 40 weeks. The finding, which appears in the Feb. 1 issue of *Cancer Research*, leads them to believe that the body stores and slowly releases these substances.

This study is significant, according to lead investigator Stephen Hecht, because it shows carcinogens do disappear from the body after smoking cessation, even if the disappearance is slower than expected. Hecht said that's good news for those who quit.

The researchers collected urine samples from 27 people before they quit smoking and at one, three, six, 14 and 18 weeks afterward. They analyzed the urine for two substances, NNAL and NNAL-Gluc, which the body manufactures from a carcinogen found in tobacco. Six weeks after smoking cessation, the two substances had dropped to 7.6 percent of original levels. Levels continued to decline, to 5 percent after 10 weeks, 3 percent after 14 weeks and 2 percent after 18 weeks. In some subjects, the substances were detected 40 weeks after cessation. The decline of urinary NNAL and NNAL-Gluc after smoking cessation was much slower than expected.

"The slow release of the metabolite NNAL indicates that there is a depot in the body where this carcinogen resides," Hecht said. "If we find this depot it may help us understand how the metabolite NNAL causes lung cancer in humans."

Thirteen study participants used nicotine patches, which had no effect on carcinogen levels. This indicates that nicotine alone does not produce these carcinogens, Hecht said.

To determine if the substances are stored in the lung, Hecht and his team are conducting a similar study for people who chew tobacco. "If the lung is the organ where NNAL mainly persists," he said, "we may not see the persistence in chewers."

The researchers also analyzed urine samples for nicotine and cotinine, two substances found in tobacco. One week after smoking cessation, nicotine had dropped to 0.5 percent of baseline and cotinine to 1.1 percent. In contrast, NNAL plus NNAL-Gluc had only fallen to 34.5 percent of baseline after a week. NNAL and NNAL-Gluc are produced from a carcinogen known as NNK.

Hecht is one of few researchers in the world with the capability of measuring these carcinogens in the human body. The university's Cancer Center was named a comprehensive cancer center by the National Cancer Institute in 1998. □

What: Board of regents February agenda
When: Thursday and Friday, Feb. 11-12
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contact: Mike Nelson, nelso037@tc.umn.edu, (612) 626-7701

U OF M REGENTS TO BE UPDATED ON LEGISLATIVE REQUEST, HEAR PRESENTATION ON PROPOSED RENOVATION OF SOUTH MALL

MINNEAPOLIS / ST. PAUL -- The University of Minnesota board of regents will receive an update on Governor Ventura's 2000-01 biennial budget request recommendation for the university during their monthly meeting Thursday, Feb. 11, and Friday, Feb. 12, in Room 238 Morrill Hall. The request, presented to the Minnesota Legislature on January 28, includes a biennial increase of \$247.6 million for higher education, of which \$121.8 million is directed to the university. This amount represents a 4 percent annual increase over current year appropriations (fiscal year 1998-99).

The board will also view the schematic plans for the Territorial Housing addition, the new Fleet Services Building, the East River Road Ramp Replacement and the Swine Research Facility at the Southern Experiment Station, and hear a presentation on the proposed renovation of the South Mall area on the Twin Cities/Minneapolis campus.

On Friday, the board will also recognize outgoing regent Tom Reagan, who has represented the 8th Congressional District since 1990. Reagan served as chair of the board of regents from 1993-96.

Here's a sample of committee agenda items.

Wednesday, Feb. 10

- 4 p.m. Litigation review committee, 325 Morrill. Nonpublic meeting to discuss attorney client privileged matters.

Thursday, Feb. 11

- 9 a.m. Facilities, 238 Morrill. Review of schematic plans and design guidelines.
- 9 a.m. Faculty, staff and student affairs, 300 Morrill. Semester conversion and graduate student issues.
- 1:30 p.m. Finance and operations, 300 Morrill. Annual insurance and risk management report.
- 1:30 p.m. Educational planning and policy, 238 Morrill. Technology transfer policy issue report.
- 3:45 p.m. Audit committee, 300 Morrill. Y2K update.

Friday, Feb. 12

- 9 a.m. Committee of the whole, 238 Morrill. Outgoing regent recognition, annual report on the status of university research, South Mall presentation.
- 11 a.m. Board of regents, 238 Morrill. Fall quarter enrollment report, quarterly report of grant and contract activity FY 98-99. □

What: Lt. Gov. Mae Schunk visits U of M
When: 10 a.m. Thursday, Feb. 11
Where: 277 Coffey Hall, 1420 Eckles Ave., St. Paul
Contact: Dani O'Reilly, College of Agricultural, Food, and Environmental Sciences, (612) 624-3235
 Deane Morrison, University News Service, (612) 624-2346



LT. GOV. SCHUNK TO VISIT U OF M

MINNEAPOLIS / ST. PAUL--Lt. Gov. Mae Schunk will visit the University of Minnesota Thursday, Feb. 11, to learn about the KEEY (Kids, Education, the Environment and You) program, which fosters horticultural knowledge and skills in inner-city children. During her visit Schunk will watch children from KEEY assemble large hanging baskets under the tutelage of university horticulture students. The baskets will later hang in the children's communities, in the Minneapolis and St. Paul downtowns and on university grounds.

Schunk's schedule:

- 10 a.m. Visit Philip Larsen, interim dean, College of Agricultural, Food, and Environmental Sciences, 277 Coffey Hall, 1420 Eckles Ave., St. Paul.
- 10:20 a.m. Visit with KEEY students in a greenhouse operated by the College of Biological Sciences. The greenhouse is on Lindig Avenue, in the northeast corner of the Twin Cities campus/St. Paul.
- 11:30 a.m. Schunk leaves campus. □

What: Eric Kruse named vice president of University Services

When: February 12, 1999

Contacts: Tim Busse, Facilities Management, (612) 624-2863

Mike Nelson, News Service, nelso037@tc.umn.edu, (612) 626-7701

INTERIM VICE PRESIDENT ERIC KRUSE NAMED TO PERMANENT POSITION

MINNEAPOLIS / ST. PAUL—Eric Kruse, associate vice president of Facilities Management at the University of Minnesota, has been named vice president of University Services. Kruse has held that position on an interim basis since February 1998.

The vice president for University Services is responsible for Facilities Management; Campus Health, Safety and Transportation Services; and Auxiliary Services, which include eight different self-supporting businesses such as the bookstores, fleet services and campus mail. These divisions include more than 1,800 employees and a budget of more than \$962 million.

Almost a year ago, university President Mark Yudof split the Finance and Operations position into two areas of responsibility, creating a vice president of University Services and a financial management group that reports directly to him.

The financial management group is chaired by Richard Pfutzenreuter, chief financial officer and associate vice president for Budget and Finance, and includes several associate vice presidents with financial responsibilities. The group advises Yudof and the Board of Regents on financial matters and coordinates institutional financial management activities.

Kruse has more than 20 years' experience in facilities operation and business management. He began his career at the now-defunct Met Center with the Minnesota North Stars, and filled a variety of roles both there and at the university before rising to the office of vice president. He graduated from the University of Minnesota with a degree in business and has been with the university for seven years.

Kruse lives in Apple Valley with his wife and two children. □

What: ScienceFest '99
When: 10 a.m.-3 p.m. Saturday, March 6
Where: Bell Museum, 10 Church St. S.E., Minneapolis
Contact: Nina Shepherd, Bell Museum, (612) 626-7254
 Deane Morrison, University News Service, (612) 624-2346



U OF M BELL MUSEUM PRESENTS SCIENCEFEST '99

MINNEAPOLIS / ST. PAUL--Children will experience the fun of scientific discovery through hands-on activities and demonstrations at ScienceFest, the University of Minnesota Bell Museum of Natural History's annual science fair for children, from 10 a.m. to 3 p.m. Saturday, March 6.

Participants will:

- Witness death-defying displays of gravity, momentum and other physical forces by teachers from the university's Physics Force;
- Learn how popular breakfast cereals are made by scientists from General Mills;
- Take a close look at live owls and hawks presented by researchers from the university's Gabbert Raptor Center;
- Try out paper-making techniques with scientists from the university's wood and paper science department; and
- Tour the Bell Museum's newest children's exhibit, "Rainforests: A Wet and Wild Adventure."

ScienceFest is the highlight of the Bell Museum's annual two-week celebration of the JASON Project, a yearlong science curriculum for Minnesota middle schoolers. The celebration features daily live broadcasts from the Amazon rainforest Monday through Friday, March 1 through 12 (no broadcast Sunday, March 7). Each day hundreds of Minnesota middle schoolers and students from around the world will join Titanic explorer Ballard via satellite from the Bell Museum auditorium. Students will discover how asteroids paved the way for today's rainforests, meet people indigenous to the tropical rainforest and travel along a quarter mile of treetop canopy. Broadcasts begin at 9 a.m., 10:30 a.m., noon, 1:30 p.m. and 3 p.m.

Now in its 10th year, the JASON Project is named after the mythological Greek hero who found the golden fleece. Past explorations have included satellite expeditions to Iceland, the Galapagos, Belize and Bermuda.

The Bell Museum, located at 10 Church St. S.E. in Minneapolis, is open from 9 a.m. to 5 p.m. Tuesday through Friday; 10 a.m. to 5 p.m. Saturday; and noon to 5 p.m. Sunday. Admission to ScienceFest and the Bell Museum is \$6 adults; \$5 children. □

MIR
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5/11/99University News Service
6 Morrill Hall
100 Church St. SE
Minneapolis, MN 55455
612-624-5551

news

Audio with Kvittem and Hardie is available on the NewsLine at (612) 625-6666.

What: U study on mouth guards in high school sports
Who: Brent Kvittem, M.S., D.D.S., (612) 435-7151, (612) 871-2170 home
 Nancy Hardie, M.S., M.P.H., (612) 624-4618
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U STUDY SAYS HIGH SCHOOL ATHLETES WOULD BENEFIT FROM MOUTH GUARDS

MINNEAPOLIS / ST. PAUL--Approximately one out of 10 Minnesota high school wrestlers, basketball and soccer players suffer sport-related dental injuries that require care by a physician or dentist, according to a University of Minnesota study that will be published in the Journal of Public Health Dentistry in March.

The study was led by Brent Kvittem, who initiated the project as part of his master's thesis. Kvittem and colleagues Nancy Hardie, Mark Roettger and John Conry surveyed 318 male and female athletes participating in the three contact sports in which a mouth guard is not required by the Minnesota State High School League.

Seventy-two percent of the 101 wrestlers surveyed reported an orofacial injury, including broken or lost teeth, cuts, bruises or fractures to areas in and around the mouth. The same was true for 55 percent of the 101 basketball players surveyed and 28 percent of the 116 soccer players. Athletes wearing braces were especially susceptible to injury. None of the six percent of athletes who wore mouth guards reported injury. The injuries occurred during the 1996-97 season.

In 1993 the Minnesota High School League implemented the first mandatory mouth guard rule in the nation for male and female high school athletes participating in soccer, basketball and wrestling. The rule was met with resistance, and in April 1994 the league rescinded the rule, in part because of the lack of scientific data available on the frequency of injury in these sports.

The athletes surveyed played on varsity teams at one of five unidentified high schools in Minnesota. Half of the athletes believed mouth guards prevent injuries. The researchers said that the students who found mouth guards cumbersome were primarily using the generic boil-and-bite variety sold in stores and not the more comfortable custom mouth guards fabricated by dentists.

"A loosened tooth may not seem like a big deal when it happens," Kvittem said, "but it could lead to problems that require expensive and involved treatment such as a root canal or a crown."

The authors recommend that dentists routinely ask their pediatric patients about sports participation, inform them of orofacial injury risks, encourage mouth guard use and offer to create custom mouth guards. They also suggest policies should be developed requiring school officials to record orofacial injuries, to inform athletes of their risk and to encourage custom fabricated mouth guard use for these athletes. □

What: U of M's Nathan inducted into National Academy of Engineering
When: Reception, 3 p.m. Tuesday, Feb. 16
Where: Electrical & Computer Engineering Conference Room
Who: Marshall Nathan, (612) 625-2319
Contacts: Jim Thielman, University News Service,
 thielman@mailbox.mail.umn.edu, (612) 624-0214

RECEPTION SCHEDULED TO HONOR U OF M ENGINEERING PROFESSOR

Marshall Nathan, a University of Minnesota professor of electrical engineering and pioneer in the field of semiconductor lasers, has been named a member of the National Academy of Engineering (NAE). A reception in Nathan's honor is scheduled for 3 p.m. Tuesday, February 16, in the conference room of the Electrical and Computer Engineering Department on the university's Twin Cities campus/Minneapolis. The semiconductor laser is the most common laser today, used, for example, in compact disc music players, digital video disc players, supermarket cashier checkout machines, and high speed telecommunications.

In 1962, Nathan was the central experimental worker at IBM to observe lasing for the first time in a semiconductor. He then formed an informal group of colleagues who made a primitive semiconductor laser. For his work, he received an IBM Outstanding Innovation Award in 1963, the Institute of Electrical and Electronics Engineers (IEEE) David Sarnoff Award in 1980, and an IEEE/Laser Electro Optics Society recognition in 1988.

Nathan received his bachelor's degree in physics from MIT and his applied physics doctorate degree from Harvard. He joined the IBM Research Division in 1958, where he studied semiconductor electron transport. In 1961, he undertook the study of optoelectronic properties of semiconductors and insulators. From 1963 until 1980 he held various senior management positions in IBM Research, Yorktown Heights, N.Y. In 1980, he formed a small group working on novel high speed electronic devices. Under his direction the group invented the Transferred Hot Electron amplifier and with his participation was among the first groups to directly observe ballistic transport in semiconductors.

He joined the University of Minnesota in the fall of 1987 as professor of electrical engineering and became the Centennial Chair holder in 1990. He is a Fellow of the American Physical Society and the IEEE.

Nathan will be inducted into the academy at a black-tie dinner in Washington, D.C., on Oct. 2, 1999. The induction ceremony will bring the Academy's membership to 1,984.

Founded in 1964, the National Academy of Engineering provides engineering leadership and works to build and communicate the implications of rapid technological change. The NAE is a private, independent, nonprofit institution that advises the federal government, and conducts independent studies that examine some of the more important contemporary topics in engineering and technology. □

MTR
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Joint News Release

- What:** Statement on U of M, MnSCU presence in Rochester
- When:** 1 p.m. today (Tuesday, Feb. 16)
- Where:** MnSCU board of trustees meeting, International Hall, 4th floor, Minnesota World Trade Center
- Who:** Robert Bruininks, U of M executive vice president and provost, (612) 625-0051
Linda Baer, MnSCU senior vice chancellor, (651) 282-5515
- Contacts:** Deane Morrison, University News Service, (612) 624-2346
Nancy Livingston, MnSCU Public Affairs, (651) 296-0541

U OF M, MNCSU PLAN STRONGER TIES TO ROCHESTER

MINNEAPOLIS / ST. PAUL--The University of Minnesota and the Minnesota State Colleges and Universities (MnSCU) have prepared a statement of principles that would govern the expansion and revision of higher education resources in Rochester. University of Minnesota Executive Vice President and Provost Robert Bruininks and MnSCU Senior Vice Chancellor Linda Baer will present the statement during a 1 p.m. meeting of the Educational Policy Committee of the MnSCU board of trustees today (Tuesday, Feb. 16), in the International Hall of the Minnesota World Trade Center in St. Paul.

Rochester and Olmsted County have been a strong economic engine for the state. Currently more than 2,500 businesses, with a total payroll exceeding \$2 billion, operate in the area. Between 1994 and 1997, business start-ups numbered 1,431, many of which were spinoffs of high technology and health service companies. About 32 percent of workers in these firms have at least a bachelor's degree. Rochester's population may grow as much as 26 percent by 2020. Educational offerings, especially in post-baccalaureate and research programs, are projected to fall short in the face of this growing demand.

"Building on a 20-year foundation of partnership between Winona State University and Rochester Community and Technical College, we will now expand our partnership and provide more collaborative programming to meet the increasing higher education needs of the Rochester community," said Baer.

"Individuals, community groups and organizations such as the Mayo Foundation have stated their strong desire to have a larger University of Minnesota presence in the area," said Bruininks. "Growth in technology and health jobs matches the university's research and teaching strengths. The university's expansion would be complementary to the resources already in place."

Among the guiding principles for expansion:

- The university would establish a nonresidential branch campus, the "University of Minnesota at Rochester," subject to agreement by the university's board of regents and the MnSCU board of trustees.
- Rochester Community and Technical College and Winona State University will remain intact, and the academic interests of WSU in Rochester will be preserved.
- If the expansion is approved, a special state appropriation to the university would be requested to provide core administrative support, infrastructure support and increased academic programs.

For a copy of the statement, call (612) 624-5551. □

MTR
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What: Recommendations to improve state's educational system
Who: Mark Davison, Office of Educational Accountability (OEA),
(612) 627-1053
Ron Erickson, Office of Educational Accountability (OEA),
(612) 627-0068
Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
(612) 624-8038

U OF M OFFICE OF EDUCATIONAL ACCOUNTABILITY RELEASES RECOMMENDATIONS FOR STATEWIDE ACCOUNTABILITY SYSTEM

MINNEAPOLIS / ST. PAUL--The Office of Educational Accountability (OEA) at the University of Minnesota has released Measured Steps 1999, a report to the Minnesota House and Senate education committees on ways to improve the state's K-12 educational accountability system.

The report offers ways in which the state can recognize schools for high performance, assist schools showing little or no gain in student achievement, modify requirements for the Profile of Learning and collect additional data to help schools understand and improve student performance. In contrast to the recent vote by the Minnesota House to eliminate the Profile of Learning, the OEA recommends keeping the system of high standards in place, but provides several ideas for reducing the additional recordkeeping burden placed on teachers and students who use it.

For further information about Measured Steps 1999, contact the Office of Educational Accountability at (612) 627-1009. □

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9/1/99

starwatch

University News Service
6 Morrill Hall
100 Church St. SE
Minneapolis, MN 55455
612-624-5551

UNIVERSITY OF MINNESOTA MARCH STARWATCH

by Deane Morrison

Having bid farewell to Jupiter as it fell through the evening sky, Venus now sees Saturn out. The queen of planets also plays opposite two full moons, March being the second "blue moon" month in 1999. Mars waxes bright in the east, and on the 20th we welcome spring.

Just after sunset, the western sky forms a backdrop to a host of planetary comings and goings. Venus continues to shine brilliantly, while Jupiter sinks out of sight late in the month. Mercury climbs higher and comes within four degrees of Jupiter on the 5th and 6th, but then it, too, drops toward the sun. Meanwhile Saturn also dives for the horizon, passing Venus on the 19th. A thin crescent moon will set off the planetary pair.

The best night to see all four planets may be the 3rd, when Mercury swings out as far from the sun as it gets during this appearance. Look just as the western sky is darkening. Saturn will be highest, followed by Venus, Jupiter and Mercury. Binoculars will help in finding Mercury.

Mars rises in mid-evening, still following the bright star Spica into the sky. Our red neighbor is getting closer and brighter as Earth catches up to Mars in the orbital sweepstakes. In April we'll overtake Mars, and its brightness will peak. If you have a telescope, you may see that the northern hemisphere of Mars now points toward us. Mars' north polar icecap is shrinking, and the Martian summer is drawing to a close.

The first full moon arrives about 1 a.m. on the 2nd. The full moon of March has been called many names by the Algonquin Indian tribes between New England and Lake Superior. The worm moon harkens to the softening of the ground and the reappearance of earthworm casts, a sure sign that robins will follow. Farther north the moon was called the crow moon because the cawing of crows heralded the waning of winter. Or it was called the crust moon because these days the snow acquires a hard crust from melting by day and freezing at night. Another name, the sap moon, celebrates the beginning of the sap flow from maple trees.

The Milky Way hangs from north to south like a pale streamer in the evening sky. It cuts through the grouping of familiar winter constellations, which are now enjoying a last month of brightness before fading into the sunset. Coming in like a lion is Leo, the constellation whose front end resembles a backward question mark and is known as "the Sickle." Leo is framed by two striking star clusters. In front (westward), is the Beehive, also known as Praesepe (pree-SEE-pee), the manger. Behind Leo is Coma Berenices. Both clusters appear faint and blurry to the naked eye, but come alive with countless stars when seen through binoculars.

Spring arrives with the vernal equinox at 7:45 p.m. on the 20th, when the sun crosses the Equator into the northern sky. At the time of the vernal equinox, the sun is moving northward at its fastest rate, and so the lengthening of days--especially earlier sunrises--becomes quite evident.

On the 31st we get our second blue moon of the year. The second full moon in a calendar month has come to be called a blue moon, probably because that color is so rarely associated with our usually pearly satellite. In January we had our first blue moon. Two blue moons in a year can only occur if the months with extra moons are January and March. When that happens, as this year, February has no full moon. We won't see another "double blue moon" year until 2018.

###

Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:

**Deane Morrison, University News Service, (612) 624-2346,
dmorris@mailbox.mail.umn.edu**

2/18/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

MTR
N47
GAP

What: U testing epilepsy drug for a mental illness
Who: Barry Rittberg, M.D., (612) 672-7930
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U PHYSICIANS TEST EPILEPSY DRUG FOR TREATING BIPOLAR DISORDER

MINNEAPOLIS / ST. PAUL--Physicians at the University of Minnesota are investigating a drug to treat manic episodes of bipolar disorder, also known as manic depression. The medication, lamotrigine (Lamictal), is currently approved for the treatment of epilepsy.

Individuals experiencing bipolar disorder may suffer from extreme mood swings, with periods of extreme depression or mania. The manic episodes are characterized by abnormally elevated moods or irritability, decreased need for sleep, racing thoughts, increased energy and grandiose ideas.

Since 1970 lithium has been the standard treatment for bipolar disorder, despite the fact that lithium is ineffective in up to 50 percent of patients and is not well tolerated by many patients. Other anti-epileptic medications, such as tegretol and depakote, are also used to treat this disorder.

"The best treatments available are not effective in many people, so we need more alternative treatments," said Barry Rittberg, assistant professor of psychiatry. Rittberg is the lead investigator in this three-week inpatient study.

Bipolar disorder is often seasonal, with the depressive phase occurring during fall and winter months and the manic phase occurring during the spring and summer. Rittberg estimates that the disorder affects between 1 and 2 percent of the general adult population.

The study is being conducted in 40 clinics internationally and is sponsored by GlaxoWellcome Inc., North Carolina. Researchers expect to enroll patients through the spring. □

MTR
N417
3/14/99

What: U of Minnesota ethics expert to consult for Clinton commission

Who: Jeffrey Kahn, Ph.D., M.P.H., (612) 624-9440

Contact: Teri Charest, Academic Health Center, (612) 624-4604

U PROFESSOR CONSULTANT TO EMBRYONIC STEM CELL RESEARCH COMMISSION

MINNEAPOLIS / ST. PAUL--A professor from the University of Minnesota has been selected a consultant to a presidential commission investigating the ethical, legal and policy implications of human embryonic stem cell research.

Jeffrey Kahn, director of the university's Center for Bioethics, will consult for the National Bioethics Advisory Commission (NBAC), created by President Clinton in October 1995. The president asked NBAC to consider issues in human embryonic stem cell research after it was reported that researchers had isolated embryonic stem cells.

For his part, Kahn will contribute to a paper for the commission discussing the creation of public policy related to bioethics issues. He will also critique drafts of the commission's report and provide input to the commissioners and staff as issues arise.

Kahn is no stranger to presidential commissions. Prior to his appointment at the University of Minnesota, he served as staff director of the White House Advisory Committee on Human Radiation Experiments. The work of that commission helped lead Clinton in 1997 to apologize for the Tuskegee syphilis experiments that took place from the 1930s to the 1970s.

The National Bioethics Advisory Commission is expected to issue its report on embryonic stem cell research in June 1999. □

MTR
N47
JAH

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Who: Barry Rittberg, M.D., (612) 672-7930
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U PHYSICIANS TEST EPILEPSY DRUG FOR TREATING BIPOLAR DISORDER

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The National Bioethics Advisory Commission is expected to issue its report on embryonic stem cell research in June 1999. □

MIP
1/4/99
2/1/99

- What:** 32nd Annual Clothing Design Show
- When:** 3 p.m. Saturday, April 17
- Where:** North Star Ballroom, St. Paul Student Center
- Who:** Wendy Johnson, Clothing Design Club, john0975@gold.tc.umn.edu,
(612) 872-0788
- Contact:** Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
(612) 624-8038

U OF M FASHION SHOW HIGHLIGHTS STUDENT DESIGNERS

MINNEAPOLIS / ST. PAUL--The University of Minnesota department of design, housing and apparel will host its 32nd annual clothing design show at 3 p.m. Saturday, April 17, in the North Star Ballroom in the St. Paul Student Center.

Five student designers will present a wide range of clothing styles, such as Asian-inspired women's suits, children's special occasion and fairy bridal gowns. The mentors of the student designers will showcase their work, as will 11 junior designers.

The show will include a traditional tea with finger sandwiches and desserts. Tickets can be purchased at the St. Paul Student Center Union Station desk or reserved by calling (612) 625-9794. Tickets are \$13 for students and \$15 for nonstudents in advance, \$18 at the door. □

What: Regional Brain Bee competition at the U
When: Thursday, March 4, 6 to 9:30 p.m.
Where: Earle Brown Center, 1890 Buford Ave., St. Paul
Who: Mary Page, coordinator, (612) 626-3722
Contact: Teri Charest, Academic Health Center, (612) 624-4604

HIGH SCHOOL STUDENTS RACK BRAINS FOR REGIONAL COMPETITION AT U

MINNEAPOLIS / ST. PAUL--Students from 11 Minnesota high schools will compete in the regional competition of the first national Brain Bee from 6 to 9:30 p.m. Thursday, March 4, at the University of Minnesota Earle Brown Center in St. Paul. The winner will compete in the national Brain Bee competition March 16 in Baltimore.

The contest will be like a spelling bee but with questions about the brain taken from the book "Brain Facts," published by the Society for Neuroscience. A panel of university neuroscience faculty will serve as judges, including Professor Brain, who will make a special guest appearance.

The students will represent high schools in Apple Valley, Arden Hills, Chaska, Maplewood, Minneapolis, Minnetonka, Prior Lake, St. Louis Park, St. Paul, Oakdale and Waconia.

The event is coordinated by the university's graduate program in neuroscience in conjunction with Brain Awareness Week (March 16-19).

This is the inaugural year for the nationwide Brain Bee competition. The competition began at the University of Maryland in 1994 and was expanded in 1998.

The winners who travel to the national competition will meet with leaders of Congress and visit the National Institutes of Health. □

What: McKnight Land-Grant Professors named
When: Meet the regents 9:15 a.m. Friday, March 12
Where: 238 Morrill Hall
Contacts: Myrna Smith, Graduate School, (612) 625-7579
 Deane Morrison, University News Service, (612) 624-2346

U OF M NAMES SEVEN MCKNIGHT LAND-GRANT PROFESSORS

MINNEAPOLIS / ST. PAUL--Seven University of Minnesota faculty members have been awarded 1999-2001 McKnight Land-Grant Professorships. Given by the university's Graduate School, the professorships are designed to advance the careers of the most promising junior faculty at a crucial period in their professional lives. The award includes a \$24,000 research grant in each of two years and a fully paid research leave in the second year. The winners will be introduced to the university's board of regents at approximately 9:15 a.m. Friday, March 12, in 238 Morrill Hall.

All the honorees hold the rank of assistant professor and are from the Twin Cities campus unless otherwise noted. Here is the list.

- Daphne Berdahl, anthropology. She studies the former East Germans coping with transition to a capitalist/consumer society.
- Paul Crowell, physics. Crowell studies the magnetism of electrons and ways to preserve it so it can be harnessed to create improved computer components.
- Ray Gonzalez, English. A poet, Gonzalez examines the influence of Spain and Latin America on U.S. Latino authors.
- Mats Heimdahl, computer science and engineering. He works with software languages to improve control in situations where personal safety is at stake.
- Marc Hirschmann, geology and geophysics. He studies melting and related phenomena in the earth's mantle.
- Brad Nelson, mechanical engineering. Nelson builds tools needed to create microscopic machines.
- Elise Ralph, physics department and Large Lakes Observatory, Duluth campus. Ralph studies fluid dynamics in large lakes to shed light on movements of nutrients, pollutants and other materials. □

**Audio with Maddaus is available on the NewsLine at (612) 625-6666.
Video of the laser treatment is also available (Beta format).**

What: Laser treatment for late-stage lung cancer
Who: Michael Maddaus, M.D., (612) 624-9461
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA DOCTORS TREAT LATE-STAGE LUNG CANCER WITH LASERS

MINNEAPOLIS / ST. PAUL--Physicians at the University of Minnesota are using a minimally invasive laser treatment called photodynamic therapy (PDT) to treat late-stage lung cancer.

The Food and Drug Administration approved PDT for late-stage lung cancer patients in December. Before then, PDT was only used to treat esophageal cancer, which is rare, and lung cancer that was detected early, which often does not happen. The treatment relieves debilitating symptoms like cough, wheezing or chest pain, which occur when a tumor obstructs an airway.

PDT can be done as an inpatient or outpatient procedure. The patient is injected with a light-sensitive drug called PHOTOFRIN[®], a product of Paris-based Sanofi and its U. S. subsidiary, Sanofi Pharmaceuticals, Inc. Tumor cells retain more PHOTOFRIN[®] than normal cells. Two days after the injection, physicians insert a tube equipped with a viewer and nonthermal laser down the windpipe to the site of the tumor. When the physician turns on the laser, it activates the PHOTOFRIN[®] within the tumor cells and kills them. The patient usually goes home the day of the laser treatment and returns within one week to have the dead tumor cells removed.

Dr. Michael Maddaus, a thoracic surgeon and oncologist, will treat patients at Fairview-University Medical Center in Minneapolis. He is a member of the University of Minnesota Physicians group practice and the University of Minnesota Cancer Center, which was designated a "comprehensive cancer center" by the National Cancer Institute in 1998. Cancer Center researchers are also investigating the use of PDT for certain kinds of skin cancer.

The American Cancer Society estimates nearly 171,500 people in the United States will be diagnosed with lung cancer this year, 2,500 in Minnesota alone.

To learn more about this treatment call Teri Kast, nurse coordinator, at (612) 626-5396. □

What: Board of regents March agenda
When: Thursday and Friday, Mar. 11-12
Where: 238 Morrill Hall
Contact: Mike Nelson, nelso037@tc.umn.edu, (612) 626-7701

**U OF M REGENTS TO DISCUSS U PRESENCE IN ROCHESTER;
 NEWLY ELECTED REGENTS TO TAKE OATH OF OFFICE**

MINNEAPOLIS / ST. PAUL -- The University of Minnesota board of regents will discuss a statement of principles that would govern the expansion and revision of higher education resources in Rochester during their monthly meetings Thursday and Friday, March 11 and 12. The statement of principles, created in collaboration with the Minnesota State Colleges and Universities (MnSCU), was approved by the MnSCU board of trustees in February.

Among the guiding principles for expansion: The university would establish a nonresidential branch campus, the "University of Minnesota at Rochester," subject to agreement by the university's board of regents and the MnSCU board of trustees; Rochester Community and Technical College and Winona State University (WSU) will remain intact, and the academic interests of WSU in Rochester will be preserved; and, if the expansion is approved, a special state appropriation to the university would be requested to provide core administrative support, infrastructure support and increased academic programs.

At approximately 8:30 a.m. Thursday, March 11, House Speaker Steve Sviggum will swear in newly elected regents Dallas Bohnsack and Anthony Baraga in 238 Morrill Hall. Bohnsack, from New Prague, will represent the 2nd Congressional District; Baraga, a Chisholm native, will represent the 8th District.

Here's a sample of committee agenda items.

Thursday, Mar. 11

- 8:30 a.m. Board of regents, 238 Morrill. Newly elected regents take oath of office.
- 9 a.m. Facilities, 300 Morrill. Academic Health Center strategic facilities plan.
- 9 a.m. Faculty, staff and student affairs, 238 Morrill. Policy review: Animal Care & Use.
- 1:30 p.m. Finance and operations, 300 Morrill. Report of funds from hospital transaction.
- 1:30 p.m. Educational planning and policy, 238 Morrill. University Center Rochester.
- 3:45 p.m. Audit committee, 300 Morrill. Internal audit update.

Friday, Mar. 12

- 9 a.m. Board of regents, 238 Morrill. Committee report on semester conversion, tuition rate and board of regents policy, committee report on revisions to critical measures, recognition of McKnight Land-Grant Professors. □

Audio with LaPrade is available on the NewsLine at (612) 625-6666 for broadcast after the embargo. For video (Beta format) of LaPrade performing the procedure, call Teri Charest at (612) 624-4604.

- What: Report on knee cartilage replacement procedure**
When: Embargoed by JAMA until 3 p.m. CST Tuesday, March 9
Who: Robert LaPrade, M.D., (612) 625-7144
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA REPORT: KNEE CARTILAGE IMPLANT PROMISING, NEEDS FURTHER REVIEW

MINNEAPOLIS / ST. PAUL--Physician researchers at the University of Minnesota report that a procedure to replace damaged knee cartilage is effective but needs further study. The report will be published March 10 in the Journal of the American Medical Association (JAMA).

Dr. Robert LaPrade, assistant professor of orthopaedic surgery and lead author of the report, said that among patients carefully selected for clinical trials, the treatment known as autogenous cartilage implantation (ACI) had improved knee function in patients two and five years after their operations.

To perform ACI, the surgeon removes the patient's healthy cartilage-producing cells and sends them to Genzyme Tissue Repair in Cambridge, Mass., where they are grown in a lab. The cells are returned to the surgeon, who implants the cells into the patient's knee. The cells are injected under a flap of periosteum, which is a thin tissue that covers the shin bone. The periosteum patch covers the damaged area of the knee and holds the new cells in place while they continue to multiply and heal the damage.

ACI relieves symptoms such as locking, catching, localized pain and swelling, which often occur in athletes who have twisted or encountered blunt force to the knee. Such injuries damage the cartilage that cushions the areas in the knee where the thigh and shin bones meet.

One of LaPrade's first ACI patients, a 20-year-old from St. Paul, Minn., is now doing well and is in training for the Olympic sprint cycling team. He had undergone multiple unsuccessful surgeries on his right knee for arthritis.

LaPrade and co-author Dr. Marc Swiontkowski are both orthopaedic surgeons with the University of Minnesota Physicians group practice. Swiontkowski is also head of the university's department of orthopaedic surgery. ACI is one of three osteoarthritis procedures they report on in this article. □

What: Third annual Mechanical Engineering Robot Show
When: 2:40 to 4:30 p.m. Wednesday, March 10
Where: Great Hall, Coffman Union
Who: William Durfee, mechanical engineer professor, (612) 625-0099
Contact: Jim Thielman, University News Service, (612) 624-0214,
thielman@mailbox.mail.umn.edu

STUDENTS TO DISPLAY INEXPENSIVE CREATIONS AT ROBOT SHOW

MINNEAPOLIS / ST. PAUL -- A page-turning machine for use by musicians, a card-dealing machine and a putt-return device will be among the projects on display at the third annual Mechanical Engineering Robot Show on Wednesday, March 10, in the Great Hall of Coffman Memorial Union on the University of Minnesota/Twin Cities campus.

The show culminates six weeks of work for 190 engineering students who created autonomous, computer-controlled machines that "do something interesting" for less than \$25. "That means the students have to be creative, prowling the back aisles of Target or looking in garbage cans," said mechanical engineering professor William Durfee, director of design education. "There are serious objectives to the limit, because in the real world students will have to deal with these cost constraints."

The robots must act for no more than 45 seconds and have at least one moving part, but it is up to the students whether the unique machines do something useful such as crush aluminum cans, scrape a windshield or exist solely to amuse and delight -- as did last year's wing-flapping, egg-dropping chicken.

The walk-through Robot Show is open to the public. Refreshments will be served.

Further information about the project is available at <http://www.me.umn.edu/courses/me1010/robot/index.html>. □

What: U of Minnesota, Fermilab neutrino experiment
When: Next eight years
Where: Between Chicago and Tower, Minn.
Who: Earl Peterson, University of Minnesota, (612) 624-0319
Stanley Wojcicki, Stanford University, (650) 926-2806
Tom Fields, Fermilab, (630) 840-6316
Contacts: Sharon Butler, Fermilab, sbutler@fnal.gov, (630) 840-5681
Deane Morrison, University News Service, (612) 624-2346

U OF MINNESOTA, FERMILAB TO PROBE NATURE OF NEUTRINOS

MINNEAPOLIS / ST. PAUL--Physicists are preparing to go underground to solve one of nature's most baffling mysteries: whether the elusive subatomic particles known as neutrinos have mass. In search of a definitive answer, Fermi National Accelerator Laboratory in Chicago will send a beam of neutrinos underground to a University of Minnesota-run detection facility in Soudan Underground Mine State Park in northern Minnesota. Physicists will look for evidence that neutrinos leaving Fermilab change their character, or "flavor," before arriving at the mine a fraction of a second later; such a change would prove that neutrinos have mass.

The university has selected the Hugo, Minn., firm Lametti & Sons to excavate the new underground laboratory in Soudan that will house the Minnesota detector for the \$146 million neutrino experiment, called MINOS (main injector neutrino oscillation search). The experiment, funded by the U.S. Department of Energy, the United Kingdom and the state of Minnesota, is expected to begin gathering data in 2002. Led by principal investigator Stanley Wojcicki (Voy-JIT-ski) of Stanford University, MINOS involves about 200 scientists from 20 institutions in five countries. MINOS is part of Fermilab's NUMI (Neutrinos at the Main Injector) project, headed by physicist Tom Fields.

Researchers hope that if the mass of neutrinos can be determined, so can their contribution to the total mass of the universe. Physicists estimate that about 80 to 90 percent of the mass in the universe is "dark matter": matter that can't be seen. Of this, neutrinos could account for as much as 10 percent. If so, their combined mass--and the gravity associated with objects that have mass--could have played a role in the formation of stars and galaxies throughout the universe. Further, knowing how much, if any, mass is tied up in neutrinos might help physicists develop a Theory of Everything to explain gravity, electromagnetism and the forces operating in the atomic nucleus, all in the same terms.

"Neutrinos are the lightest particles with mass, assuming they have mass," said University of Minnesota physicist Earl Peterson. "We want to know what the family ties between neutrinos are, just as we already know the family ties between quarks--the building blocks of protons and neutrons."

What: Grade school students get up close and personal with brains
When: Monday through Friday, March 15-19
Who: Keith Kajander, (612) 626-0632
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U NEUROSCIENTISTS TAKE BRAIN SHOW TO LOCAL SCHOOLS

MINNEAPOLIS / ST. PAUL--Fifth- and sixth-grade students at approximately 40 metro area schools will get a crash course in brain science as University of Minnesota neuroscientists take their show on the road March 15 through 19 for national Brain Awareness Week.

Professors and graduate students will give a presentation about the brain and bring an interactive traveling display that shows the brain's various functions. Students will demonstrate how neurotransmission works, test reflexes with a reflex hammer and demonstrate how memory works through a word association exercise.

"We hope our visit will encourage students to learn more about science and increase their science literacy, in addition to promoting awareness of the importance of the brain in disease," said Tim Ebner, professor of neurosurgery and physiology and head of the neurosciences department. Students will learn what scientists are discovering about brain function, explore their sense of touch and vision and learn about Alzheimer's disease. They will also see a real human brain.

"In past years we found that faculty and graduate students have fun teaching fifth and sixth graders, and that they thoroughly enjoy visiting classrooms," said Keith Kajander, associate professor of oral science, cell biology and neuroanatomy.

For a list of locations, dates and times contact program coordinator Mary Page at (612) 626-3722. □

What: Details of independent investigation into U of M men's basketball program

When: Friday, March 19

Contacts: Nina Shepherd, (612) 625-8510, sheph001@tc.umn.edu
Mike Nelson, (612) 626-7701, mnelson@mailbox.mail.umn.edu

U OF MINNESOTA ANNOUNCES DETAILS OF INDEPENDENT INVESTIGATION

MINNEAPOLIS /ST. PAUL--University of Minnesota President Mark Yudof said today that the university has named two law firms to conduct an independent investigation into recent allegations of academic misconduct in the university men's basketball program.

Michael Glazier, a partner with Bond, Schoeneck & King, located in Kansas City, will lead the fact-finding and evidence-gathering investigation. Donald Lewis, of Minneapolis-based Hallelund, Lewis, Nilan, Sipkins & Johnson, will serve as co-counsel. The president has also charged the investigation team to work closely and cooperatively with the NCAA enforcement staff. The fact-finding effort, expected to take approximately six months, will be coordinated by attorney Tonya Moten Brown, who serves as Yudof's chief of staff.

"An investigation conducted by outside experts with considerable experience in NCAA matters will allow us to establish the facts in a thorough, impartial and prompt way," said Yudof. "Once the initial fact-finding is completed by the outside firms, the board of regents and I will be in a position to identify the actions necessary to respond."

Such actions could include a "self-report" to the NCAA of rule violations identified by the investigation and proposals to remedy them, referral of academic misconduct to the appropriate collegiate unit, organizational changes and other necessary measures.

Glazier and his colleagues at Bond, Schoeneck & King, have investigated NCAA cases for several major universities including Michigan State University, Kansas State University and the University of Louisville. Lewis, a founding partner in his firm, has represented federal and local government agencies in the areas of educational policy, civil rights and law enforcement. □

Audio with Hall is available at (612) 625-6666.

What: Experimental treatment for brain tumors
Who: Walter Hall, M.D., (612) 624-5108
Where: 429D Mayo, 420 Delaware Street S.E. (Hall's office)
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA INVESTIGATING THERAPY THAT ATTACKS BRAIN TUMOR CELLS

MINNEAPOLIS / ST. PAUL--Physicians at the University of Minnesota are testing a new experimental therapy that attaches itself to the most deadly form of brain tumor cells and kills them.

The study involves a targeted toxin therapy called Interleukin 4-toxin (IL4-toxin), which does not attach to healthy brain cells. This may allow the physician to deliver a highly potent dose of toxin to the tumor without injuring the healthy cells that surround it.

"The potential of this treatment is exciting because it has been shown in lab tests to be extremely potent and is specific for brain tumor cells," said Dr. Walter Hall, associate professor of neurosurgery and lead investigator in the university's effort. He leads one of nine teams studying the therapy nationwide. The other teams are in California, Missouri, New York, North Carolina, Ohio and Virginia.

The IL4-toxin has two components. IL4 is the carrier molecule, which seeks out the tumor cells. The toxin that kills the cells comes from the bacteria *Pseudomonas aeruginosa*. The therapy is delivered in a one-time procedure, through a catheter inserted directly into the tumor. It is administered by a very slow infusion over four days.

There is no curative therapy for this kind of tumor, glioblastoma multiforme, which accounts for at least 35 percent of the 17,500 cancerous brain tumors diagnosed in America each year, Hall said.

Hall, a member of the University of Minnesota Physicians group practice, will see patients at Fairview-University Medical Center in Minneapolis. He is also a member of the university's Cancer Center, which was designated a comprehensive cancer center by the National Cancer Institute in 1998.

To learn more about the study, call (612) 624-5108. □

UNIVERSITY OF MINNESOTA

University News Service

University of Minnesota • 6 Morrill Hall • 100 Church Street S.E. • Minneapolis, Minnesota 55455 • (612) 624-5551

What: GradFest '99

When: Wednesday and Thursday, April 7-8

Where: Great Hall, Coffman Memorial Union

Contacts: Mike Nelson, nelso037@tc.umn.edu, (612) 626-7701

Jeff Sturkey, jsturkey@tc.umn.edu, (612) 624-1841

U OF M KICKS OFF SPRING COMMENCEMENTS WITH GRADFEST '99



Minnesota's largest university is gearing up for the pomp and circumstance of the 21 commencement ceremonies being held this spring. GradFest '99, a "one-stop" source for graduation information, services and products, will be held from 10 a.m. to 6 p.m. Wednesday, April 7, and from 9 a.m. to 3 p.m. Thursday, April 8, in Coffman Union Great Hall. Now in its sixth year, GradFest is the largest event of this type in the country.

Last spring 4,600 seniors and finishing graduate students stopped by GradFest to pick up caps and gowns, order graduation announcements, choose a class ring and complete financial aid exit interviews. GradFest contains a mix of exhibits from such university offices as the Alumni Association, athletics, financial aid and the Graduate School as well as non-university exhibits to help with selecting party supplies, arranging hotel reservations and ordering cakes. Graduates can also get assistance with job placement services and career needs such as clothing, resume paper and briefcases. More than 50 exhibitors will be on hand to address concerns graduating students may have.

GradFest promises "No Hassle for a Tassel" and is sponsored by the University of Minnesota Bookstores and Institutional Relations. Visit the GradFest Web site at <http://www.bookstore.umn.edu> for a complete exhibit roster.

What: Board of Regents April agenda
When: Thursday and Friday, April 8-9
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contacts: Mike Nelson, nelso037@tc.umn.edu, (612) 626-7701
 Nina Shepherd, sheph001@tc.umn.edu, (612) 625-8510

U OF M REGENTS TO DISCUSS DIVERSITY, CAPITAL IMPROVEMENT PLAN

MINNEAPOLIS / ST. PAUL -- The University of Minnesota board of regents will hear "Profiles in Diversity," a presentation that serves as an indicator of how well the university is recruiting and retaining students, staff and faculty of color, during their monthly meetings Thursday and Friday, April 8 and 9. The board will also hear revised plans for a planning/community relations effort intended to improve the level and quality of communication with neighborhood groups and elected officials in areas surrounding the Twin Cities campuses.

In other matters, the board will discuss the Health Professions Education Endowment, President Yudof's proposal to create an endowment for medical professionals, and the 1999-2000 University Planning Framework, which assesses how well the university is doing academically.

Here's a sample of committee agenda items.

Thursday, April 8

- 9 a.m. Facilities, 238 Morrill. Schematic plans, design guidelines, discussion of proposed women's ice hockey center in Duluth.
- 9 a.m. Faculty, staff and student affairs, 300 Morrill. Profiles in diversity report.
- 1:30 p.m. Finance and operations, 300 Morrill. 1999-2001 biennial budget request.
- 1:30 p.m. Educational planning and policy, 238 Morrill. Intellectual property, update on University Center Rochester.
- 3:45 p.m. Board of regents, 238 Morrill. Health Professional Educational Endowment, update on academic initiatives at coordinate campuses.

Friday, April 9

- 9 a.m. Board of regents, 238 Morrill. Capital Improvement Plan, 1999-2000 University Planning Framework, annual Eastcliff report. □

What: Sacred foods symposium
When: 8 a.m.-7p.m. Thursday, April 8
Where: St. Paul Student Center Northstar Ballroom
Contacts: Margaret Adamek, Visions for Change, (612) 624-7451
 Mary Jo Kreitzer, Center for Spirituality and Healing, (612) 625-3977
 Deane Morrison, University News Service, (612) 624-2346

SPIRITUALITY OF FOODS EXAMINED IN U OF M SYMPOSIUM

MINNEAPOLIS / ST. PAUL--Nationally recognized American Indian spiritual leaders and elders will present their views on the spiritual relationship between humans, food and the natural environment at a Sacred Foods Symposium from 8 a.m. to 7 p.m. Thursday, April 8, in the Northstar Ballroom of the the University of Minnesota St. Paul Student Center. The symposium will feature keynote and small group presentations on the spirituality of food, dialogs with elders and spiritual leaders on contemporary natural resource and food systems issues, and identification of ways to apply the day's teachings. The symposium is sponsored by the university's Visions For Change project, in the College of Agricultural, Food, and Environmental Sciences; and Center for Spirituality and Healing, in the Academic Health Center.

Here is the schedule:

- 8 a.m. Pipe-filling ceremony facilitated by Jerry Dearly, St. Paul spiritualist and teacher of cultural education and Lakota language. **No cameras, audio recording equipment or pens and notebooks will be allowed during the ceremony.**
- 8:30 a.m. Breakfast break.
- 9:30 a.m. Keynote address: "Mituyake Oyasin--All My Relatives," by Arvol Looking Horse, 19th generation keeper of the Sacred White Buffalo Calf Pipe, Cheyenne River Reservation, S.D.
- 10:15 a.m.-4:30 p.m. Breakout sessions, led by Anne Brummel of White Earth Reservation, Minn.; Harry Charger, Cheyenne River Reservation, S.D.; Chris Leith, Prairie Island Reservation, Minn.; Betty Laverdure, Turtle Mountain Reservation, N.D.; Arvol Looking Horse; and Wendl Severson of Grand Forks, N.D.
- 4:30 p.m. Talking Circle. Participants and presenters will reconvene as a group to explore possibilities for next steps, actions and commitments.
- 5:30 p.m. Reception with presenters.
- 7 p.m. Adjourn. □

What: U vandalism tip line and reward account established
Who: U police tip line, (612) 378-1914
Contacts: Teri Charest, Academic Health Center, (612) 624-4604
 Dan Saftig, Minnesota Medical Foundation, (612) 625-1440

U VANDALISM TIP LINE AND REWARD ACCOUNT ESTABLISHED

MINNEAPOLIS / ST. PAUL--The University of Minnesota Police Department has set up a tip line for information on the criminal acts that occurred at Lions Research Building and Elliott Hall on April 5. That number is (612) 378-1914.

The line will also provide recorded information about a reward account that has been established at the Minnesota Medical Foundation. The sum in that account is currently \$10,000. It is intended for the individual or individuals who provide critical information leading to the arrest of the perpetrators.

The Minnesota Medical Foundation has also created a Neurosciences Recovery Fund to help researchers whose laboratories were damaged recover from their losses. The foundation has contributed \$25,000 to seed the fund, which will be used to repeat certain experiments, assemble data, collect new tissue samples, fund technicians' salaries and reimburse graduate students for time lost. Donations to the fund may be sent to: Neurosciences Recovery Fund, c/o Minnesota Medical Foundation, Box 193, 420 Delaware St. S.E., Minneapolis MN 55455. For more information on donations, call (612) 625-1440.

"We have been overwhelmed with the response from people who would like to do something to help us recover from this tragic loss," said Dr. Timothy Ebner, head of neurosciences. "These are people who understand that the loss is a setback, not only to those who are currently afflicted with diseases of the brain, but to those who will be in the future."

The university continues to search for animals lost in the attacks. So far, 14 of 27 pigeons have been rescued. One pigeon suffered a broken leg and is under veterinary care at the university. In addition, of 36 rats lost, three have been recovered and five found dead. □

What: MINCAVA Conference
When: 8:30 a.m. - 4 p.m. Monday, April 12
Where: Radisson Hotel Metrodome
Who: Elaine Alpert, Public Health and Medicine, Boston University
Contact: Susan Ahn, ahn@mailbox.mail.umn.edu, (612) 624-8038

U OF M CENTER HOLDS CONFERENCE ON TEACHING ABOUT VIOLENCE FOR HIGHER EDUCATION PROFESSIONALS

MINNEAPOLIS / ST. PAUL--The Minnesota Center Against Violence and Abuse (MINCAVA), located at the University of Minnesota, will host a conference to demonstrate techniques for teaching about violence in higher education from 8:30 a.m. to 4 p.m. Monday, April 12, in the Radisson Hotel Metrodome. Instructors across the country have begun requesting assistance to improve their teaching techniques, and MINCAVA plans to showcase state-of-the-art programs designed to prevent campus violence.

Keynote speaker Elaine Alpert, associate professor of public health and medicine at Boston University, will present "The Role of the Teacher Within and Beyond the Classroom" at 9 a.m. At 10:30 a.m., Theatre At Work will present "Unless There's Blood," a performance that identifies sources of stress and conflict in the workplace and explores healthy communication. The performance is open to the public. Afternoon breakout sessions will discuss sample lectures, new curricula and the role of Minnesota's higher education institutions in violence prevention.

MINCAVA has earned a national reputation working to improve violence-related higher education training. MINCAVA focuses specifically on the higher education system as a point of violence intervention and utilizes the Internet as the primary medium to reach its goals. MINCAVA can be found on the web at www.mincava.umn.edu. □

Previous studies of neutrinos coming from the upper atmosphere have hinted that the particles may have mass and change flavor while in motion. But studying the behavior of atmospheric neutrinos is difficult and fraught with uncertainties. Starting with a controlled and well understood population of neutrinos generated by a particle accelerator should make it easier to sort out what's going on, the researchers said.

"If the results from previous experiments turn out to be correct--if, indeed, neutrinos have mass--a new and very exciting area of scientific exploration will open up," said Wojcicki. "All of us are looking forward to being part of this adventure."

Two things for certain about neutrinos: They have no electric charge, and they are exceedingly small. Therefore, they usually pass through the densest matter without bumping into anything. This makes them very hard to detect. The University of Minnesota detection facility in the old Soudan iron mine in Tower, Minn., will await the beam of neutrinos with about 10 million pounds of steel plates--a huge, dense target to maximize the chance that neutrinos will hit an atomic nucleus.

"We'll probably run the beam of neutrinos nine months of the year for four years," said Peterson. "Each pulse will contain trillions of neutrinos. We might get a neutrino interaction, or hit, in about one in a thousand pulses. Each hit will produce a spatial pattern of electrical signals in detectors between the steel plates."

Neutrinos exist in three flavors: tau, muon and electron. They are produced naturally in the environment--for example, within the sun. Neutrinos are also produced when very energetic cosmic rays--nuclei of atoms streaming in from space--crash into atoms in the atmosphere. The collisions produce sprays of subatomic particles, which decay to leave two muon neutrinos for every electron neutrino. However, experiments detect too few muon neutrinos to correspond with that ratio. This deficit suggests that muon neutrinos change--or oscillate, as physicists put it--into other kinds of neutrinos as they travel from the upper atmosphere to detectors on the Earth.

Similarly, physicists in the MINOS experiment will be on the lookout for missing muon neutrinos. Fermilab will generate a beam of muon neutrinos and direct it through 445 miles of earth and rock to the Soudan mine in Tower, Minn. There, half a mile underground, the massive steel detector will determine whether the muon neutrinos all arrived, or whether some of them changed into other kinds en route. The detection must be performed underground to prevent interference from the millions of particles generated by cosmic rays.

The beam from Fermilab will send a pulse of neutrinos every 1.9 seconds. Each pulse will contain 300 trillion (300 million million) neutrinos. The distribution of neutrinos in the universe is about 300 per cubic centimeter. □

- What:** First University Outstanding Community Service Awards
- When:** 6:30 p.m. Monday, April 26
- Where:** Radisson Metrodome, 615 Washington Ave. S.E.
- Contacts:** Bob Bruininks, executive vice president and provost, (612) 625-0051
 Mike Nelson, University News Service, (612) 626-7701

U OF M AWARDS HONOR OUTREACH, COMMUNITY SERVICE

MINNEAPOLIS / ST. PAUL--The University of Minnesota will recognize six employees with the first-ever University Outstanding Community Service Award at 6:30 p.m. Monday, April 26, at the Radisson Metrodome. The award recognizes outstanding contributions and accomplishments of faculty, staff and community members who have devoted their time and talent to make substantial and enduring contributions to the community.

The recipients:

- **Karen Alaniz**, education specialist, School of Nursing. Alaniz develops programs aimed at building self-management behaviors in a growing population of children diagnosed with asthma.
- **Lisa Albrecht**, associate professor, General College. Albrecht is active in the area of civil rights, addressing problems that stem from poverty, racism and other forms of injustice.
- **Amos Deinard**, associate professor, pediatrics. Deinard studies the effect of lead on early childhood development and serves as director of the Community-University Health Care Center/Variety Children's Clinic.
- **Archibald Leyasmeyer**, associate professor, English. Leyasmeyer has been a central figure in the development of numerous cultural institutions, including the Playwrights' Center, the Guthrie Theater and the Center for Arts Criticism.
- **Judith Martin**, professor, geography. Martin's research addresses a range of local and national urban topics, including transportation, land use, neighborhood revitalization, housing and historical preservation.
- **David Weissbrodt**, professor, Law School. Weissbrodt is a national and international scholar and expert on civil rights who has helped establish several human rights organizations in Minnesota.

"These six award winners have each made significant contributions to improving the quality of life and the well-being of society at the local, regional, state, national and international level," said Bob Bruininks, executive vice president and provost. "Working with citizens and community organizations in the university's land-grant tradition, these individuals have extended and exchanged their unique knowledge by applying their expertise to community issues. Their efforts have resulted in long-term and lasting change for the public good." □

What: Nobel winner and U alumnus returns
When: Thursday, May 27, 1:45 p.m. (news availability), 2:30 p.m. (lecture)
Where: Mayo Memorial Auditorium, 420 Delaware Street S.E., Mpls.
Who: Louis Ignarro, Ph.D., (310) 825-5159 (in California before May 26)
Contacts: Teri Charest, Academic Health Center, (612) 624-4604

LOUIS IGNARRO TO DELIVER NOBEL LECTURE AND RECEIVE U OF M PHARMACOLOGY AWARD

MINNEAPOLIS / ST. PAUL--Louis Ignarro, University of Minnesota alumnus and one of three winners of the 1998 Nobel Prize in Physiology or Medicine, will return to the university Thursday, May 27, to speak and receive the F.E. Shideman Distinguished Alumnus Award.

Ignarro, who received a doctorate in pharmacology from the university in 1966, will deliver the same speech he gave in Stockholm when he received the Nobel Prize. He won the award for his contributions to the concept that a simple gas, nitric oxide, could act as a signaling molecule in the body to promote the dilation of blood vessels. This knowledge served as the basis for, among other things, the development of the anti-impotence drug Viagra.

Now the Jerome J. Belzer Distinguished Professor of Pharmacology at the University of California Los Angeles, Ignarro is the only University of Minnesota graduate to receive the Nobel Prize in Physiology or Medicine. He joins 14 previous Nobel winners affiliated with the University of Minnesota, five alumni and nine faculty.

The Shideman Award recognizes graduates of the department of pharmacology who have made outstanding contributions to pharmacological knowledge. As the 1999 recipient, Ignarro will receive a plaque and an honorarium in a ceremony preceding his speech. The award's namesake, Frederick Shideman, led the department from 1962 to 1987 and was Ignarro's thesis adviser.

A native of Brooklyn, New York, Ignarro received a bachelor's degree in pharmacy from Columbia University in 1962. He taught at Tulane University from 1973 to 1985, after which he took a professorship at UCLA. The recipient of numerous teaching awards from UCLA's School of Medicine, he founded the Nitric Oxide Society and the journal Nitric Oxide Biology and Chemistry. □

What: National recognition for U's family practice department
When: Friday, April 30, 2 p.m. CDT
Where: Sheraton Seattle Hotel and Towers, 1400 Sixth Ave., Seattle
Who: William Jacott, M.D., (206) 621-9000 (in Seattle late 4/28)
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U RECOGNIZED FOR SUCCESS EDUCATING FAMILY PRACTICE PHYSICIANS

The University of Minnesota Medical School will receive a Gold Achievement Award from the American Association of Family Physicians (AAFP) for its outstanding production of graduates who enter family practice. The university will accept the award at the Society of Teachers of Family Medicine (STFM) annual meeting in Seattle at 2 p.m. Thursday, April 30.

Between 1995 and 1998, 31.7 percent of the medical students who graduated from the university entered an accredited family practice residency program. Each year approximately 40 family physicians graduate from the university's residency programs, which have trained more than 1,000 to date.

"The specialty of family medicine is a vital part of the primary health care system in Minnesota and the United States," said Dr. William Jacott, head of the department of family practice and community health. "We are proud to be a national leader in family medicine education and research." Jacott and Dr. James Pacala, professor of family practice, will accept the award.

Jacott will also receive the F. Marian Bishop Leadership Award in acknowledgment of his long-term commitment to the discipline and his leadership roles in the American Medical Association (AMA) and the Joint Commission on the Accreditation of Health Care Organizations (JCAHO).

Dr. Carole Bland, professor of family practice, will receive the Curtis G. Hames Research Award for her contributions to the development of family medicine research. Dr. Patrick Keenan and Dr. Brenda Wilcox Abraham will receive New Faculty Scholar Awards. □

What: Why we need computers to become more human
When: 7:30 p.m. Wednesday, May 5
Where: Radisson Metrodome Hotel
Who: Janet Murray (available May 5)
Contact: Jim Thielman, University News Service,
thielman@mailbox.mail.umn.edu, (612) 624-0214

AUTHOR TO DISCUSS 'THE GOD IN THE MACHINE'

MINNEAPOLIS / ST. PAUL--Author Janet Murray will discuss "'The God in the Machine: Why We Need Computers to Become More Human" at 7:30 p.m. Wednesday, May 5, in the Humphrey Room of the Radisson Metrodome Hotel, 615 Washington Ave. S.E., Minneapolis. The lecture is free and open to the public.

Murray writes about the future, yet has a doctorate from Harvard University in Victorian studies. In her 1997 book, "Hamlet on the Holodeck: The Future of Narrative in Cyberspace," she analyzed network technology and examined cyberspace as a storytelling medium. In interviews, Murray has offered the possibility that interactive narratives may someday create an "authorless society." She is a senior research scientist at MIT's Center for Educational Computing Initiative and is currently working on a second book. Her Web site can be viewed at <http://web.mit.edu/jhmurray/www/>.

Murray will also conduct a Digital Narratives Workshop for instructors at the university during the day. The workshop will explore how instructors develop digital narrative materials and assignments to help students learn concepts and skills in a wide range of disciplines. The event is sponsored by the university's Center for Interdisciplinary Studies of Writing and Digital Media Center. □

What: IT Week activities
When: May 3-7
Where: U of M, various locations
Who: Institute of Technology students, faculty and staff
Contact: Deane Morrison, University News Service, (612) 624-2346



SOLAR CAR, CRAZY PHYSICISTS, FLYING CALCULATORS MARK IT WEEK AT U OF M

MINNEAPOLIS / ST. PAUL--Institute of Technology students will unveil their fourth solar car and a Formula One car, physicists will stage two spectacles of derring-do, and IT olympians will compete in such events as the calculator toss and the concrete cylinder toss during IT Week at the University of Minnesota Monday, May 3, through Friday, May 7. The week is traditionally a time for the IT science and engineering students to celebrate their accomplishments, learn about career options and socialize.

Here are some highlights.

- Opening ceremony, noon Monday, tent on Northrop Mall.
- Formula One unveiling, 3-4 p.m. Tuesday, Northrop Mall near Ford Hall.
- Solar car "Aurora 4" unveiling, noon Wednesday, Northrop Mall near Ford Hall.
- IT Olympics, 10 a.m.-noon Friday, Church Street and Northrop Mall.
- IT Technology Fair, 9 a.m.-4 p.m. Thursday and Friday, tent on Northrop Mall. Among the technology on display will be a '99 Corvette, courtesy of General Motors.
- Pi-mile run, 1:30 p.m. Friday, Northrop Mall. This run down East River Road and back will be approximately 3.1416 miles long, same as the Greek letter Pi, which represents the ratio of a circle's circumference to its diameter.
- Physics Force (large-scale and lively physics demonstrations), noon and 7:30 p.m. Friday, Northrop Auditorium.

For more information or a complete schedule call (612) 626-1552 or e-mail plumbbob@tc.umn.edu. □

Who: Attorney Michael Ciresi
What: Outstanding Achievement Award
When: 6:30 p.m. Thursday, April 29
Where: Minneapolis Club, 729 2nd Ave. S., Minneapolis
Contact: Terri Mische, Law School, (612) 625-6584
Mike Nelson, News Service, (612) 626-7701

ATTORNEY MICHAEL CIRESI TO RECEIVE U OF M ALUMNI AWARD

MINNEAPOLIS / ST. PAUL--Attorney Michael Ciresi, partner and chair of the board of Robins, Kaplan, Miller & Ciresi, will receive a University of Minnesota Outstanding Achievement Award at 6:30 p.m. Thursday, April 29, during a ceremony at the Minneapolis Club, 729 2nd Ave. S., in downtown Minneapolis. The award, the highest given to alumni, recognizes exceptional achievement in a professional field or in community service.

A 1971 graduate of the University of Minnesota Law School, Ciresi probably is best known for his role as the lead litigator in the case *State of Minnesota and Blue Cross and Blue Shield of Minnesota v. Phillip Morris Inc.* Dr. C. Everett Koop, former surgeon general of the United States, called the settlement with the tobacco giant "one of the most historic health developments of the second half of the 20th century."

Ciresi has received numerous awards and recognitions, including the Trial Lawyer of the Year Award from the Trial Lawyers for Public Justice Foundation and a Lifetime Achievement Award from the Minnesota Trial Lawyers Association. He has twice been recognized in the National Law Journal as one of the nation's top 10 trial lawyers, and in 1997 Minnesota Law & Politics named him Lawyer of the Year.

Ciresi is a staunch supporter of the Law School. He serves as a member of the board of directors, as a member of the capital campaign cabinet and is a substantial donor. □

Who: Michael Wright, SUPERVALU board chair
What: Outstanding Achievement Award
When: 6:30 p.m. Thursday, April 29
Where: Minneapolis Club, 729 2nd Ave. S., Minneapolis
Contact: Teri Mische, Law School, (612) 625-6584
Mike Nelson, News Service, (612) 626-7701

SUPERVALU BOARD CHAIR MICHAEL WRIGHT TO RECEIVE U OF M ALUMNI AWARD

MINNEAPOLIS / ST. PAUL--Michael Wright, chair, chief executive officer and president of SUPERVALU Inc., will receive a University of Minnesota Outstanding Achievement Award at 6:30 p.m. Thursday, April 29, at the Minneapolis Club, 729 2nd Ave. S., in downtown Minneapolis. The award, the highest given to alumni, recognizes exceptional achievement in a professional field or in community service.

Wright, a Minnesota native, was captain of the 1959 Gopher football team and an Academic All-American. He received a bachelor's degree in liberal arts from the university in 1961 and a law degree, with honors, from the university's Law School in 1963.

After serving in the Army, Wright joined the law firm Dorsey & Whitney and was named a partner in 1968. He joined SUPERVALU as a senior vice president in 1977 and was elected president the same year. He was elected chief operating officer in 1978 and chief executive officer in 1981. In 1982 he was named chair of the board.

Wright serves on a number of boards of directors, including Wells Fargo, Honeywell and Cargill. He is chair of the board of the Food Marketing Institute, past chair and current member of the board of directors of Food Distributors International and board member of the Independent Grocers Alliance. He serves as trustee emeritus of the University of Minnesota Foundation, as a member of the board of overseers of the University of Minnesota Carlson School of Management and as a member of the St. Thomas Academy board of trustees. He is also a past president of the Federal Reserve Bank of Minneapolis.

Wright is a longtime supporter of the Law School, serving on its board of directors and board of visitors and as co-chair of the building fund for the school's capital campaign. □

What: American Indian and Asian American Heritage Celebration
When: May 3 to May 5
Where: University of Minnesota-Twin Cities
Who: Writers Sherman Alexie and Alex Kuo
Contacts: Justin Huenemann, American Indian Learning Resource Center, (612) 624-2555; Bob San, bsan@mailbox.mail.umn.edu, (612) 624-4082.

MINNEAPOLIS/ST. PAUL--Award-winning writers Sherman Alexie and Alex Kuo will headline a three-day celebration of American Indian and Asian American heritage at the University of Minnesota Monday, May 3 to Wednesday, May 5.

Alexie is best known for writing the screenplay for the award-winning independent film, "Smoke Signals." A Spokane/Coeur d'Alene Indian from Wellpinit, Wash., he has garnered high praise for his poems and short stories that illuminate contemporary reservation life. He is the author of "The Lone Ranger and Tonto Fist Fight in Heaven," which served as the basis for "Smoke Signal." His novels include "Indian Killer" and "Reservation Blues," which won him the Before Columbus Foundation's American Book Award.

Kuo is widely-published in poetry, fiction and non-fiction. His works have ranged from articles on Aryan Nations parades, Hong Kong culture and economics and fundamentalist Christians in China to novels exploring Beijing's political spring of 1989.

The celebration will kick off at 7 p.m. Monday at Coffman Union Theater with a screening of "Smoke Signal," followed by a panel discussion with Alexie and Kuo. On Tuesday, the visiting writers will have breakfast with students from 9 to 10 a.m. at the American Indian Student Cultural Center at 104 Jones Hall, give a lecture on screen-writing from 3 to 4 p.m. at 105 Lind Hall and host a reading reception at the Weisman Arts Museum at 7 p.m. On Wednesday, Alexie and Kuo will offer a writer's workshop to students, including some from the American Indian alternative school, Heart of the Earth, from 9 a.m. to noon at 104 Jones Hall. □

What: Report on year-round schools

Who: Lis Palmer, education specialist, Center for Applied Research and Educational Improvement, palme015@tc.umn.edu, (612) 624-6359

Barbara Zohn, MN Dept of Children, Families, & Learning, barbara.zohn@state.mn.us, (651) 582-8688

Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu, (612) 624-8038

YEAR-ROUND SCHOOLS--CAN THEY WORK IN MINNESOTA?

MINNEAPOLIS / ST. PAUL--More than two million K-12 students in the United States currently study in 2,900 schools that operate on a year-round calendar--a five-fold increase in 10 years. In Minnesota, almost two dozen schools are trying a variety of scheduling experiments, many of them extended-day or extended-year models.

A new report by the Center for Applied Research and Educational Improvement (CAREI) in the College of Education and Human Development at the University of Minnesota says alternative school calendars show potential benefit. The report, prepared for the Minnesota Department of Children, Families and Learning, encourages the state to continue to support and study schools that use experimental schedules so that a clearer picture might emerge of the benefits and drawbacks to alternative calendars. Key findings from the report, which was drawn from information compiled from schools within the state and research from around the nation, include:

- Students attending year-round schools perform as well as, and in some instances better than, students attending schools with traditional nine month calendars.
- For districts facing rapid enrollment growth, a multi-track, year-round calendar can reduce the number of new buildings needed.
- No one alternative calendar currently stands out as better than another in meeting the educational needs of students.

The most common reason given by Minnesota administrators for trying a year-round schedule is a desire to decrease summer learning loss. The major challenges have been transportation costs, transitional costs such as air conditioning installation, and resistance from parents. School districts that have been piloting alternative calendars include Albert Lea, Buffalo, Cambridge, a Chisago Lakes-Rush City-North Branch consortium, Duluth, Hastings, Hopkins, McGregor, New Country School, Osseo, St. Paul, St. Paul Family Charter School, South Washington County, Stillwater and White Bear Lake.

The full report is available on the CAREI Web site at <http://carei.coled.umn.edu>. Click on "Alternative Calendars." □

What: 30th Annual U of M Iron Pour
When: 11 a.m.-4 p.m., Friday, May 14
Where: University of Minnesota Art Building, west bank campus
Who: Wayne Potratz, potra001@tc.umn.edu, (612) 625-8096
Contact: Susan Ahn, University News Service,
ahn@mailbox.mail.umn.edu, (612) 624-8038

THE UNIVERSITY OF MINNESOTA PRESENTS 'THE IRON CIRCUS'

MINNEAPOLIS / ST. PAUL--The sparks will be a-flyin' at the 30th Annual Minnesota Iron Pour at the University of Minnesota's Sculpture Foundry, located in the Art Building on the west bank campus, from 11 a.m. to 4 p.m. on Friday, May 14.

The annual Minnesota Iron Pour is an aesthetic, athletic, pyrotechnic event where iron is melted and cast into iron sculpture. The Iron Pour is produced by art professor Wayne Potratz and students in his metalcasting course. This year eight nationally recognized guest artists from academic institutions throughout the United States have been invited to participate in the pour. Faculty from the Minneapolis College of Art and Design; Southwest State University, Marshall; the College of Visual Arts, Minneapolis; and the University of Minnesota, Morris, as well as local artists, will represent Minnesota.

Several events will complement the Iron Circus/30th Annual Minnesota Iron Pour. A national group exhibition titled "A Small Irony" will take place in the Art Building's Mezzanine Gallery from May 1 to 15. The focus of the exhibition is on small works created by artists who melt and cast their own iron. Gallery hours are 9 a.m. to 10 p.m., Monday through Thursday, and 10 a.m. to 6 p.m. Saturday. A public reception is scheduled for 5 p.m. Thursday, May 13, in the gallery, located on the first floor of the Art Building. A mini-symposium titled "The State of Iron at the End of the Millennium" will be held at 7 p.m. that evening in the West Bank Union Auditorium, located on the lower concourse of Willey Hall. Several of the guest artists will show slides of their creative work and discuss the future of cast iron art in the 21st century.

As a finale to the Iron Circus/30th Annual Minnesota Iron Pour, a series of performances will take place north of the Art Building after 8:30 p.m. Friday, May 14. Various fire acts, including fire eaters, a flaming hoop dance and other visual treats will be featured. All events at the Iron Circus/30th Annual Minnesota Iron Pour are free and open to the public. □

What: Childhood risk factors for heart disease
Who: Julia Steinberger, M.D., (612) 626-2755
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF M RESEARCHERS STUDYING RISK FACTORS OF HEART DISEASE

MINNEAPOLIS / ST. PAUL--University of Minnesota researchers have found that the keys to preventing high blood pressure, stroke and coronary heart disease may begin in childhood.

Randomly selected adolescents are being screened and followed long-term to learn if risk factors that lead to heart disease, such as obesity, high blood pressure, high cholesterol and increased heart size, carry into adulthood. These risk factors were proven to be present in children and adolescents in previous studies. Dr. Julia Steinberger, assistant professor of pediatrics and one of the researchers involved in the study, said identifying these risk factors in childhood can lead to a modification of behavior and possibly prevent heart disease in adulthood.

"If we can track that certain conditions in children create risk factors in later life, we can change the course of the disease process," said Steinberger. While the research is focused on children and adolescents, Steinberger says it may ultimately reduce heart disease in adults.

The study is funded by the National Institutes of Health and a research scholarship awarded to Steinberger by the University Children's Foundation (UCF). Specialists from cardiology, endocrinology and nephrology are also involved in the study.

The UCF's mission is to improve the lives of children and adolescents through research that leads to the prevention and treatment of childhood diseases. The research is being conducted at the University of Minnesota department of pediatrics. For more information about UCF, call (612) 625-1471. □

What: Study of oral-genital HIV transmission
Who: Timothy Schacker, M.D., (612) 624-9996
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA INVESTIGATING HETEROSEXUAL RISK OF ORAL-GENITAL HIV TRANSMISSION

MINNEAPOLIS / ST. PAUL--University of Minnesota researchers have received a four-year grant totaling almost \$1 million from the National Institute of Dental Research to determine how human immunodeficiency virus (HIV) is transmitted, particularly through oral-genital contact.

"We have seen many individuals become infected with HIV through oral contact, which leads us to believe oral sex may be a higher risk activity than previously thought," said Dr. Timothy Schacker, assistant professor of medicine and lead investigator of the study. Schacker and his colleagues anticipate that this study will provide insight into how the virus crosses the mucosal cell membrane and shed light on the epidemiological or social factors that increase the risk of oral transmission.

Schacker said there is belief among the general public that oral-genital contact is safer than anal or vaginal intercourse and is therefore a better way to avoid contracting HIV. However, he said, HIV researchers do not have a clear understanding of the rate of transmission or what factors can lead to HIV infection via oral contact.

For 24 months the team will follow couples in which only one partner has HIV. They will monitor participants for overall dental health and activity that might be associated with an increased risk of transmission. Lymphatic tissue and saliva obtained from recently exposed individuals will be examined to determine how HIV infects cells and spreads to other cells.

This study represents a large collaboration between the university's School of Dentistry, School of Public Health, Program in Human Sexuality and Medical School departments of medicine, urology and microbiology. Twin Cities physicians who treat patients infected with HIV will also help with the study. They are Dr. Keith Henry from Regions Hospital in St. Paul, Dr. Ron Shut from Hennepin County Medical Center in Minneapolis, Dr. Leslie Bakken from Park Nicollet Clinic in St. Louis Park and Dr. Frank Rhame from Abbott-Northwestern Hospital in Robbinsdale.

In August 1998, the University of Minnesota, University of Michigan, University of Wisconsin and Northwestern University were designated by the National Institutes of Health as the Great Lakes Centers for AIDS Research (CFAR). Dr. Ashley Haase, director of the University of Minnesota's CFAR program and head of microbiology, is also an investigator on this grant.

Anyone interested in this study should call (612) 625-9984. □

What: U president appoints task force to review booster clubs

When: Thursday, May 6

**Contacts: Nina Shepherd, University News Service, (612) 625-8510
Mike Nelson, University News Service, (612) 626-7701**

YUDOF NAMES TASK FORCE TO REVIEW ATHLETIC BOOSTER CLUBS

MINNEAPOLIS / ST. PAUL--In response to a March 4 internal audit of travel reimbursements for university athletic staff, University of Minnesota President Mark Yudof has appointed a five-member task force to address the use of, and accounting for, booster club funds for the athletic departments.

Booster clubs, which are volunteer groups that provide support for university athletics, have traditionally raised money to cover the cost of such items as facilities improvements and other team expenses.

The purpose of the task force is to review the standards and purposes for which booster funds may be used, the authorization process for such uses, federal and state tax considerations and any applicable NCAA limitations.

The task force, which has been asked to report its findings by June 4, will be chaired by E. Thomas Sullivan, dean of the university's Law School, and will include Peggy Lucas, chair of the university's Women's Intercollegiate Athletics Advisory Council; Marvin Borman, a senior partner with the Minneapolis law firm of Maslon, Edelman, Borman and Brand; Michael Wright, president and CEO of Eden Prairie-based SUPERVALU Inc.; and Josie Johnson, former university associate vice president for minority affairs. University General Counsel Mark Rotenberg will oversee the task force and coordinate its work.

Also, in a memo issued today to university athletic directors and coaches, Yudof announced that no booster club funds may be utilized or accepted by any university employee for gifts or travel, except for bona fide university business purposes consistent with existing university and foundation guidelines. □

What: U of M General College Reunion

When: May 20&21

Who: Claudia Wallace Gardner, General College, (612) 625-1038

Contact: Bob San, University News Service, bsan@mailbox.mail.umn.edu, (612) 624-4082

U OF M GENERAL COLLEGE HOLDS REUNION; MOORE BY FOUR TO PERFORM

MINNEAPOLIS / ST. PAUL--The University of Minnesota's General College will host a homecoming and reunion Thursday and Friday, May 20 and 21. The event, titled Retrospective and Reunion Celebration, is the brainchild of General College Dean David Taylor, who wants to highlight the college's 63-year history and recognize the accomplishment of its students, faculty, staff and alumni.

"The celebration will be both retrospective and visionary as we consider our past accomplishments, define our present programs and envision our future," said Taylor. "We invite everyone to come and participate in the events, meet new members of the General College community, renew old friendships with students, faculty and staff and help us celebrate the people whose great minds and great service have made the General College the stellar institution it is today."

Here is a brief schedule of events.

- 7:30-9:30 a.m. Thursday. Fun Run and Walk. Joggers and walkers will meet at Eastcliff, the university president's residence, and proceed along East River Road to Appleby Hall, home of General College.
- 11:45 a.m.-1:30 p.m. Thursday. Panel discussion featuring General College alumni Dr. Douglas Olson, Charles Stephens and Shirlee Stone, who will share their experiences at GC and strategies for success.
- 2 to 4 p.m. Thursday. Open house, Appleby Hall, hosted by the General College Student Board. Visitors can take guided tours of the building and learn about the various programs the college offers.
- 2 to 4 p.m. Friday General College convocation and reception, Ted Mann Concert Hall. Taylor and university President Mark Yudof will preside. Taylor will deliver a "State of the College" address.
- 7 p.m. Retrospective and Reunion Alumni Dinner, Great Hall of Coffman Union. Outstanding General College students will be recognized, and alumni will share memories of their days at the college. Moore by Four will perform a special tribute to the college. □

What: U of M awards 'Minnesota Genius' grants
When: 2 p.m. Thursday, May 13
Where: 238 Morrill Hall, U of M
Contacts: Deane Morrison, University News Service, (612) 624-2346
 Myrna Smith, Graduate School, (612) 625-1093

U OF M AWARDS FIVE \$100,000 'MINNESOTA GENIUS' GRANTS

MINNEAPOLIS / ST. PAUL--Five University of Minnesota faculty have been awarded \$100,000 "genius grants" for their excellence in scholarly activities. The five will be presented to the university board of regents at **2 p.m. Thursday, May 13.**

The Distinguished McKnight University Professors will use their awards over the next five years at their discretion for research, scholarly or artistic activities. The intent of the professorships is to recognize the most outstanding mid-career scholars who have achieved the rank of full professor and who have brought honor and distinction to Minnesota. Awardees are nominated by their home departments and chosen by a committee of prominent faculty.

Here are the 1999 winners.

- Anne Fallon, entomology. An internationally recognized leader in insect molecular biology, she is an authority on the transmission of disease by mosquitoes.
- Hung-wen (Ben) Liu, chemistry. Liu is known for his work in developing new antibiotics, discovering how some bacteria protect themselves from the toxic antibiotics they produce and in the inhibition of therapeutically important biochemical reactions.
- David Pui, mechanical engineering. An expert on aerosols, he has also invented a "gene gun" for transferring genes into human and nonhuman cells.
- Anne Pusey, ecology, evolution and behavior. Chimpanzee researcher Pusey is director of the university's Center for Primate Studies. She heads the effort to archive, computerize and analyze Jane Goodall's 38 years of data on the Gombe chimps.
- Michael Ward, chemical engineering and materials science. Director of the university's Materials Research and Engineering Center, Ward specializes in the engineering of crystals.

The professorship is administered by the university's Graduate School, with funds provided through an earlier endowment gift from the McKnight Foundation in conjunction with the university's Permanent University Fund. □

What: U of M graduate assistants vote against union
When: Tuesday, May 11
Contact: Jim Thielman, University News Service,
thielman@mailbox.mail.umn.edu, (612) 624-0214

U OF M GRADUATE ASSISTANTS VOTE NO IN UNION ELECTION

MINNEAPOLIS / ST. PAUL--University of Minnesota graduate assistants voted against union representation in ballots counted today, May 11, the Bureau of Mediation Services announced. The vote was 1,713 against union representation and 1,248 for representation. Approximately 73 percent of the 4,056 eligible voters cast ballots.

Christine Maziar, vice president for research and dean of the Graduate School, said, "We have a long history of working with graduate students to resolve issues of mutual concern, and we remain committed to making the University of Minnesota an outstanding institution for graduate education."

Teaching assistants, research assistants and research fellows participated in the mail-ballot election, which closed Monday, May 10.

The university has about 9,000 graduate students.

What: Board of Regents May agenda
When: Thursday and Friday, May 13 & 14
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contacts: Mike Nelson, nels037@tc.umn.edu, (612) 626-7701
 Nina Shepherd, sheph001@tc.umn.edu, (612) 625-8510

U REGENTS TO RECOGNIZE MCKNIGHT PROFESSORS, DISCUSS 1999-2000 OPERATING AND CAPITAL BUDGETS

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents will recognize five high-achieving professors with Distinguished McKnight University Professorships during their monthly meetings Thursday and Friday, May 13 and 14. The professorships are intended to honor and reward the university's most distinguished professors whose work has brought renown and prestige to Minnesota. The recipients are Ann Fallon, entomology; Hung-wen (Ben) Liu, chemistry; David Pui, mechanical engineering; Anne Pusey, ecology, evolution, & behavior; and Michael Ward, chemical engineering & materials science.

The board will also discuss the 1999-2000 operating and capital budgets, which align all university revenue sources in support of the university's research, teaching and outreach missions. Adoption of the budget is scheduled for June.

In other matters, the board will address two new initiatives for the Twin Cities campus—design and new media—and discuss the university's NCAA certification self-study.

Here's a sample of committee agenda items:

Thursday, May 13

- 8 a.m. Audit, 300 Morrill. Semiannual controller's report.
- 10 a.m. Facilities, 238 Morrill. Historical preservation plan.
- 10 a.m. Faculty, staff and student affairs, 300 Morrill. Annual promotion and tenure recommendations; NCAA certification self-study.
- 2 p.m. Board of regents, 238 Morrill. Distinguished McKnight University Professorships; 1999-2000 operating and capital budget, appointment of Fairview-University trustees.

Friday, May 14

- 9:45 a.m. Board of regents, 238 Morrill. Non-public meeting. □

What: U of M ROTC to conduct tri-service review 
When: 10 a.m. Saturday, May 15
Where: Northrop Mall, Twin Cities/Minneapolis campus
Contacts: Mike Nelson, News Service, nelso037@tc.umn.edu, (612) 626-7701
Todd Hall, ROTC, (612) 625-1567

ARMY, NAVY, AIR FORCE CADETS CELEBRATE ARMED FORCES DAY

In honor of Armed Forces Day (Saturday, May 15), the commanders, cadets and midshipmen of the university's Army, Naval and Air Force Reserve Officers' Training Corps (ROTC) will conduct the 40th Annual Tri-Star Review beginning at 10 a.m. Saturday, May 15, on Northrop Mall at the University of Minnesota in Minneapolis. A reception will follow at the Armory, 15 Church St. S.E., Minneapolis.

The reviewing officer will be Maj. Gen. Eugene Andreotti, adjutant general of the state of Minnesota. Andreotti is Gov. Jesse Ventura's direct representative of all National Guard activity in the state and commands more than 11,000 members of the Minnesota Air and Army National Guard.

More than 300 cadets will participate. In the event of inclement weather, the review will be conducted in Williams Arena, 1925 University Ave. S.E., Minneapolis. □

What: U of M Health Sciences Orchestra performance
When: 7:30 p.m. Sunday, May 16
Where: Ted Mann Concert Hall, 2128 4th St. S., Minneapolis (West Bank)
Who: Marvin Goldberg, M.D., (612) 273-3499
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U HEALTH SCIENCES ORCHESTRA CELEBRATES SPIRIT OF GIVING

MINNEAPOLIS / ST. PAUL--The University of Minnesota Health Sciences Orchestra will present an evening of music for patients of Fairview-University Medical Center, their families and members of the public at 7:30 p.m. Sunday, May 16, in Ted Mann Concert Hall, 2128 4th St. S., Minneapolis. The free event is sponsored by the Variety Children's Association and the University of Minnesota Health Services Auxiliary.

In its fifth season, the Health Sciences Orchestra provides music and entertainment for patients, families and guests at Fairview-University Medical Center. Conducted by James Riccardo, the 40-member orchestra comprises students, faculty and staff from the university and Fairview-University Medical Center.

"We want to bring music to both patients and staff in hopes of boosting morale," said Dr. Marvin Goldberg, a radiologist and five-year orchestra veteran. "This concert celebrates over 60 years of service the Variety Children's Association and the Health Services Auxiliary have given to the medical community."

The concert will feature guest soprano Elisabeth Comeaux, performing selections from "Romeo et Juliette," "La Boheme," "The Merry Widow" and "Porgy and Bess." The program includes a performance of Beethoven's Fifth Symphony and a selection from Vivaldi's "The Four Seasons."

The Variety Children's Association has been working for 65 years to improve the lives of children living with special health care needs. Its best-known endeavor was the fund-raising and building of the Variety Club Heart Hospital at the university, the first hospital in the world designed for the care and study of patients with heart disease.

The university's Health Services Auxiliary aims to advance the quality of life for hospital patients and families. □

What: Conference to discuss residential academies for at-risk youth
When: 9 a.m. to 4:30 p.m. Friday, May 14
Where: Humphrey Institute, 301 19th Ave. S. (west bank campus)
Contacts: Charlotte Lewis, Life Course Center, (612) 624-6333
 Mike Nelson, News Service, (612) 626-7701

RESIDENTIAL ACADEMIES FOR AT-RISK YOUTH TOPIC OF DISCUSSION

MINNEAPOLIS / ST. PAUL--The Life Course Center within the sociology department at the University of Minnesota will host the conference "Residential Academies for At-Risk Youth?" from 9 a.m. to 4:30 p.m. Friday, May 14, in the Wilkins Room (Room 215) at the Humphrey Institute of Public Affairs on the west bank of the Twin Cities campus/Minneapolis.

Last year, with then-Gov. Arne Carlson's endorsement, the legislature appropriated \$12 million to create residential academies in Minnesota for at-risk youth. Conference participants will assess the plan and discuss the topic with representatives from the Minnesota Department of Children, Families & Learning, members of the legislature, community leaders, faculty and guest experts.

Participants will include:

- **Richard Jessor**, professor of psychology and director of the Institute of Behavioral Science, University of Colorado, author of the book "New Perspectives on Adolescent Risk Behavior."
- **Bill McCarthy**, department of sociology, University of California-Davis, author of the book "Mean Streets: Youth, Crime, and Homelessness."
- **Wayne Osgood**, department of sociology, Pennsylvania State University, who studies continuity and change in delinquent and criminal behavior from adolescence to adulthood.
- **Arne Carlson**, former governor and current chair and CEO of the IDS Mutual Fund Group in Minneapolis.
- **Dan Bryan**, school facilities expert from the Department of Children, Families, and Learning.

For more information about the conference call (612) 624-0812. □

Who: Attorney Jean Hanson
What: Outstanding Achievement Award
When: 2 p.m. Saturday, May 15
Where: Northrop Auditorium, Twin Cities campus/Minneapolis
Contacts: Terri Mische, Law School, (612) 625-6584
Mike Nelson, News Service, (612) 626-7701

FORMER TREASURY GENERAL COUNSEL TO RECEIVE U OF M ALUMNI AWARD

MINNEAPOLIS / ST. PAUL--Attorney Jean Hanson, partner in the New York City law firm Fried, Frank, Harris, Shriver & Jacobson, will receive a University of Minnesota Outstanding Achievement Award at 2 p.m. Saturday, May 15, during the Law School commencement ceremony in Northrop Auditorium. The award, the highest given to alumni, recognizes exceptional achievement in a professional field or in community service.

Hanson was born in Alexandria, Minn., and graduated from Luther College in Decorah, Iowa. She received a law degree from the University of Minnesota Law School in 1976, and went to work as a clerk with the Office of the Minnesota State Public Defender that same year. She became a partner in the law firm Fried, Frank, Harris, Shriver & Jacobson in 1983.

In 1993 President Clinton appointed Hanson general counsel for the Department of the Treasury. As general counsel she was head of the legal division, which provided legal services to numerous offices and bureaus, including the Internal Revenue Service, the Secret Service, the Office of the Comptroller of the Currency and the Bureau of Engraving and Printing.

In 1994 Hanson rejoined the law firm Fried, Frank, Harris, Shriver & Jacobson. She has represented many large companies, including Estee Lauder, Abercrombie & Fitch and 3M. Hanson negotiated the \$1.2 billion merger of Richardson-Vicks and Proctor & Gamble and orchestrated the \$1.5 billion public offering of high-yield bonds in connection with the leveraged buyout of Southland Corp., owner of 7-11 stores. □

Who: Hubert H. Humphrey III
What: Outstanding Achievement Award
When: 2 p.m. Saturday, May 15
Where: Northrop Auditorium, Twin Cities campus/Minneapolis
Contact: Terri Mische, Law School, (612) 625-6584
Mike Nelson, News Service, (612) 626-7701

SKIP HUMPHREY TO RECEIVE U OF M ALUMNI AWARD

MINNEAPOLIS / ST. PAUL--Hubert H. "Skip" Humphrey III, former state senator and attorney general of Minnesota, will receive a University of Minnesota Outstanding Achievement Award at 2 p.m. Saturday, May 15, during the Law School commencement ceremony in Northrop Auditorium. The award, the highest given to alumni, recognizes exceptional achievement in a professional field or in community service.

Humphrey was born in Minneapolis and educated at Shattuck School in Fairbault, Minn., and at American University in Washington, D.C. He received a law degree from the University of Minnesota in 1969 and worked in private practice from 1969 to 1982 in Minneapolis.

Humphrey was elected to the Minnesota Senate in 1972 and served for 10 years. As a freshman senator, Humphrey was part of the first DFL majority in Minnesota Senate history. He sponsored numerous bills, including Dutch elm reforestation legislation, an open meeting bill, a reporters' shield law and a gun control bill.

In 1982 Humphrey was elected Minnesota attorney general and served in that capacity for 16 years. Widely recognized as an advocate for the public interest, Humphrey championed consumer and environmental protection, children's advocacy, and programs to reduce crime and drug use.

Humphrey was the first attorney general in the nation to challenge the tobacco industry with an antitrust and consumer fraud lawsuit aimed at collecting taxpayers' share of the \$470 million in health care costs borne annually by the state of Minnesota. Humphrey and his colleagues won a \$6.1 billion financial judgment over a 25-year period from the tobacco industry.

Humphrey joined the Tunheim Santrizos Company as a public affairs consultant in February. □

What: Coffman Union architects selected
Who: KKE of Minneapolis, WTW of Pittsburgh
Contacts: Karen Lyons, assistant marketing director, Coffman Memorial Union, (612) 626-2198
Jim Thielman, University News Service,
thielman@mailbox.mail.umn.edu, (612) 624-0214

MINNEAPOLIS, PITTSBURGH ARCHITECTS SELECTED FOR COFFMAN WORK AT U

MINNEAPOLIS / ST. PAUL--The Minneapolis firm Korsunsky Krank Erickson (KKE) has been selected as the architect of record and Pittsburgh's Williams Trebilcock Whitehead (WTW) as the design architect for the University of Minnesota's Coffman Union renovation project. Construction is scheduled to begin in March 2000 and to be completed by September 2001.

WTW, which specializes in designing student unions, and KKE have experience with the Coffman project. In 1993 WTW assisted Coffman staff with a study to measure the feasibility of renovating the current facility, and recently consulted with KKE to develop the pre-design study. KKE has designed more than 30 student unions and other facilities at colleges and universities.

The selection of KKE and WTW was made through the university's standard selection process. The selection committee consisted of representatives from Facilities Management, the South Mall Project management team, Coffman director Maggie Towle and Assistant Vice President for Student Development and Athletics Jim Turman, along with four student members of the Coffman Board of Governors. The committee received seven proposals.

KKE and WTW will meet with student organizations, university departments and other tenants interested in leasing space in the renovated Coffman Union. This phase is expected to conclude by the end of spring quarter. The construction bid process will begin early in 2000.

What: Law School commencement
Who: Alan Page, Supreme Court Justice
When: 2 p.m. Saturday, May 15
Where: Northrop Auditorium, Twin Cities campus/Minneapolis
Contacts: Terri Mische, Law School, (612) 625-6584
Mike Nelson, mnelson@mailbox.mail.umn.edu, (612) 626-7701

SUPREME COURT JUSTICE ALAN PAGE LAW SCHOOL COMMENCEMENT SPEAKER

MINNEAPOLIS / ST. PAUL--Minnesota Supreme Court Justice Alan Page will be the commencement speaker at the University of Minnesota Law School graduation ceremony beginning at 2 p.m. Saturday, May 15, in Northrop Auditorium on the Twin Cities campus/Minneapolis.

Prior to his 1993 appointment to the Supreme Court, Page served as assistant attorney general for the state of Minnesota (1987-1993) and as a special assistant attorney general in the state Employment Law Division (1982-1983). He was an associate with the law firm Lindquist & Vennum from 1979 to 1985 and served as a commentator for National Public Radio and the Turner Broadcasting System in the early 1980s. Page also served as a member of the university's board of regents from 1989 to 1992.

Page received a bachelor's degree from the University of Notre Dame in 1967 and a law degree from the University of Minnesota in 1978. A professional football player with the Minnesota Vikings and the Chicago Bears between 1967 and 1981, Page was inducted into the Pro Football Hall of Fame in 1988. He was named the National Football League's Most Valuable Player in 1971, becoming the first defensive player in NFL history to receive the award.

More than 250 students are expected to participate in the Law School graduation ceremony. □

What: Transportation conference
When: Tuesday and Wednesday, May 18 & 19
Where: RiverCentre, St. Paul
Contacts: Gina Baas, Center for Transportation Studies, (612) 626-7331
 Deane Morrison, University News Service, (612) 624-2346

SUN COUNTRY CEO TO ADDRESS U OF M TRANSPORTATION CONFERENCE

MINNEAPOLIS / ST. PAUL--An address by Sun Country Airlines President and CEO Bill La Macchia, Jr. will be among the highlights of the 10th Annual Transportation Research Conference May 18 and 19 at RiverCentre in St. Paul. Sponsored by the University of Minnesota's Center for Transportation Studies, the conference will also feature state Transportation Commissioner Elwyn Tinklenberg, Metropolitan Council Chair Ted Mondale and John Pucher, professor of urban planning at Rutgers University.

The conference will be a forum for researchers and practitioners from throughout the upper Midwest to share research findings in a variety of transportation-related areas. Concurrent sessions will be grouped in four categories that match the center's research emphasis areas: Transportation and the Economy, Transportation Safety and Traffic Flow, the Transportation Infrastructure and Transportation and the Environment. A fifth category, Human and Community Issues, will also be on the agenda. Session topics include Congestion (in)Tolerance, Hiawatha LRT Corridor Development, Bicycle Travel, and the Transportation and Regional Growth Study: Initial Findings.

Here is a schedule of speakers:

- 8:30 a.m. Tuesday. Keynote address: "Visions for Minnesota Transportation Systems and Policies." Elwyn Tinklenberg. A panel including Mondale will respond.
- 12:30 p.m. (approx.) Tuesday. Luncheon address: "Coordinated Urban Transport Policy in Europe and Canada: Lessons for the United States?" John Pucher.
- 1 p.m. (approx.) Wednesday. Luncheon address: "Sun Country Airlines: Why We're Doing What We're Doing." Bill La Macchia, Jr.

For a complete schedule or further information, call the Center for Transportation Studies at (612) 626-1077. □

What: Van Vleck lecture in physics
Who: Nobelist Douglas Osheroff
When: 4 p.m. Monday, May 17
Where: Room 150, Tate Laboratory of Physics, 116 Church St. S.E.
Contact: Deane Morrison, University News Service, (612) 624-2346

LECTURER TO SPEAK ON EARNING A NOBEL PRIZE IN HIS 20'S

MINNEAPOLIS / ST. PAUL--He didn't receive the Nobel Prize in Physics until 1996, but Douglas Osheroff won the coveted award for work he did as a graduate student at Cornell University in the mid-1960s and early 1970s. Osheroff, now professor of physics and applied physics at Stanford University, will tell of his discoveries at 4 p.m. Monday, May 17, in Room 150 of the Tate Laboratory of Physics at the University of Minnesota. His talk, titled "Superfluidity in Helium Three: The Discovery Through the Eyes of a Graduate Student," is the 24th Abigail and John Van Vleck Lecture, sponsored by the university's physics department. A reception will follow.

Osheroff grew up in a small logging town in Washington state and did his undergraduate work at the California Institute of Technology, graduating in 1967. As a graduate student with David Lee and Robert Richardson at Cornell, Osheroff discovered that when cooled to about 2.6 thousandths of a degree above absolute zero, a mixture of liquid and solid helium behaved like a new state of matter. The discovery gave physicists a model system for testing diverse aspects of nature. Osheroff accepted a position at Bell Laboratories in 1972, and in 1987 he went to Stanford. He has received numerous awards besides the Nobel Prize, including the 1981 MacArthur Prize and election to the National Academy of Sciences in 1987.

The Van Vleck Lecture Series is made possible by a gift to the University of Minnesota Institute of Technology from Abigail Pearson Van Vleck, a graduate of the university. Her husband, John Van Vleck, was a member of the university physics faculty from 1923 to 1928 and received the Nobel Prize in Physics in 1977. □



What: Kayak made from paper
Who: Student team
When: 11 a.m. TODAY
Where: Basement, Kaufert Lab, 2004 Folwell Ave., St. Paul campus
Contact: Deane Morrison, University News Service, (612) 624-2346

**STUDENTS UNVEIL KAYAK MADE FROM PAPER;
 WILL RACE FOR \$15,000 IN ATLANTA**

MINNEAPOLIS / ST. PAUL--A team of students at the University of Minnesota will show off the kayak they have constructed from paper and paper products for Energy Challenge '99, a national race and competition, at 11 a.m. today in the basement of Kaufert Laboratory, 2004 Folwell Ave., on the St. Paul campus. The team will compete for a \$15,000 first prize during the competition Saturday, May 22, outside Atlanta, Ga..

Sponsored by the U.S. Department of Energy and the Institute of Paper Science and Technology, Energy Challenge '99 involves college teams designing, constructing and racing a one-person kayak made exclusively from paper products that can include wood fiber, wood pulp, secondary wood cellulose, linerboard, corrugated board and commonly used paper chemicals. The kayak must be no more than nine feet long, two and a half feet wide and 35 pounds in weight. It must also be environmentally friendly. The competition will be held on the lake at Sweetwater Creek State Park outside Atlanta, Ga. Other schools competing include the Georgia Institute of Technology, Miami University of Ohio, Mississippi State University, the State University of New York College of Environmental Science and Forestry, the University of Colorado at Denver and the University of Maine.

The purpose of Energy Challenge '99 is to foster education and awareness of manufacturing design efficiency, packaging technology, waste minimization and pulp and paper industrial processes. The competition correlates with DOE's Agenda 2020, a program to enhance the economic competitiveness of the U.S. forest products industry and help the pulp and paper industry achieve more energy efficient manufacturing processes by the year 2020. □

What: New findings on preventing heart attacks
Who: Henry Buchwald, M.D., Ph.D., (612) 625-8446
In Washington: (202) 234-0700
Hector Menchaca, M.D., (612) 625-2644
Thomas Rohde, (612) 625-7602
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

LOWERING CHOLESTEROL MAY PREVENT HEART ATTACKS, U OF MINNESOTA STUDY SHOWS

MINNEAPOLIS / ST. PAUL--Simply lowering cholesterol levels may yield immediate benefits in the form of improved oxygen delivery to the heart and other tissues, according to a study by University of Minnesota researchers. A lack of oxygen to certain body tissues is the ultimate cause of heart attacks and pain in the legs associated with peripheral vascular disease.

Dr. Henry Buchwald, the lead investigator for the study, will present the findings Tuesday, May 18, before the First International Congress on Heart Disease in Washington, D.C. Buchwald is a professor of surgery and biomedical engineering at the university.

Oxygen is carried to the heart and other organs by hemoglobin molecules inside red blood cells. Researchers have found that a high cholesterol level in the surrounding plasma leads to an increased density of the red cell membranes. When this happens, oxygen flow through the membrane is impaired, and the red blood cells may not take on adequate amounts of oxygen in the lungs or deliver adequate amounts of oxygen to the heart.

"Thus, by simply lowering your cholesterol, you may prevent a heart attack," said Buchwald.

Buchwald and his colleagues have also developed a blood stress test, a procedure incorporated into a device that can be used to measure oxygen transport.

"This can be done at a far lower cost than standard patient stress testing, which may involve invasive procedures," said Buchwald. A miniaturized version of this device could become a standard tool in physicians' offices, he said.

Co-investigators of the study are Drs. Hector Menchaca and Donald Hunninghake, along with Van Michalek, Thomas Rohde and Thomas O'Dea. □

What: Honeywell-Sweatt Lecture
Who: Arthur Caplan
When: 5 p.m. Thursday, May 20
Where: 3-210 Electrical Engineering and Computer Science Building
Contact: Deane Morrison, University News Service, (612) 624-2346

ART CAPLAN TO LECTURE AT U OF M

MINNEAPOLIS / ST. PAUL--Arthur Caplan, director of the Center for Bioethics at the University of Pennsylvania, will deliver the 1999 Honeywell-Sweatt Lecture at 5 p.m. Thursday, May 20, at the University of Minnesota. Former director of the Center for Biomedical Ethics at the University of Minnesota, Caplan will speak in Room 3-210 of the Electrical Engineering and Computer Science Building, 200 Union St. S.E., Minneapolis. The lecture is free and open to the public.

Caplan is expected to address the implications of some of the hottest issues in biomedical ethics, such as cloning, reproductive technologies, genomics, stem cell research and gene therapy.

Caplan holds master's and doctoral degrees in philosophy from Columbia University. He has served on President Clinton's Advisory Committee on Gulf War Veterans' illnesses and chairs the Advisory Panel on Blood Safety and Availability for the U.S. Department of Health and Human Services, Food and Drug Administration and Centers for Disease Control. He has written several books on bioethical issues and is a fellow of the American Association for the Advancement of Science.

The Honeywell-Sweatt Lecture is sponsored by the Center for the Development of Technological Leadership and department of biomedical engineering; both units are part of the university's Institute of Technology. □

What: Groundbreaking venture for dental clinic
Who: Michael Till, DDS, (612) 625-9982
Anthony Kuznik, DDS, (218) 262-6701
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF M AND MN SCU WILL OPEN DENTAL CLINIC IN HIBBING

MINNEAPOLIS / ST. PAUL--A joint venture between the University of Minnesota and Minnesota State Colleges and Universities (MnSCU) will soon provide low-cost dental services to the Hibbing community. A full-service dental clinic, to be housed in a new \$22.5 million Hibbing Community College facility, will be staffed by dental students, dental hygienists and dental assistants from the university and the MnSCU system. A full-time clinic director will oversee the students' work.

"This is a great example of a partnership of two large educational systems working together to meet not only the educational needs of our students, but the needs of the community," said Dr. Anthony Kuznik, president of Hibbing Community College.

Dental students and residents will work at the clinic for two- or three-week rotations as part of their educational requirements, according to Dr. Michael Till, dean of the University of Minnesota School of Dentistry.

"Another goal of this program is to interest current dental and dental hygiene students in pursuing practice in rural communities," said Till. "There is a great need for more dentists because of the aging population and lower numbers of current practitioners in these communities." Till added that the clinic will supplement, not compete with, the existing dental services now available to Hibbing community members.

Till and Kuznik will be at the groundbreaking for the new facility at 3 p.m. Friday, May 21, at Hibbing Community College, 1515 E. 25th St. in Hibbing. The building is projected to be completed by fall 2000.

Hibbing Community College is part of MnSCU, a network of 36 two-year and four-year state colleges and universities. □

Who: Guangzhi Tu
What: Honorary doctorate
When: 8 p.m. (approx.) Friday, May 21
Where: Weisman Art Museum
Contact: Deane Morrison, (612) 624-2346

GEOCHEMIST GUANGZHI TU TO RECEIVE HONORARY DOCTORATE FROM U OF M

MINNEAPOLIS / ST. PAUL--Guangzhi Tu, professor in the Institute of Geochemistry of the Chinese Academy of Sciences, will receive an honorary doctor of science degree from the University of Minnesota Friday, May 21, in an evening ceremony at the Weisman Art Museum.

Born in Hubei, China, Tu received a bachelor's degree in 1944 from the Southwest United University in Kunming, China, and a doctorate in geology in 1949 from the University of Minnesota. He is considered the "father of geochemistry in China" by his colleagues and is credited with establishing the field of geochemistry in China. A past director of the Institute for Geochemistry in Guiyang, Tu fostered the growth of research on ore deposits and in environmental sciences, both of which have had a tangible effects on mineral and water resources in China. He is a member of the Chinese Academy of Sciences, the Russian Academy of Sciences and the Third World Academy of Sciences.

Conferral of Tu's award is part of the 125th anniversary celebration of the University of Minnesota department of geology and geophysics. □

Who: Allison Palmer
What: Outstanding Achievement Award
When: 8 p.m. (approx.) Friday, May 21
Where: Weisman Art Museum
Contact: Deane Morrison, (612) 624-2346

GEOLOGIST ALLISON PALMER TO RECEIVE U OF M AWARD

MINNEAPOLIS / ST. PAUL--Allison "Pete" Palmer, a research associate at the Denver Museum of Natural History and president of the Institute for Cambrian Studies in Boulder, Colo., will receive an Outstanding Achievement Award from the University of Minnesota Friday, May 21, in an evening ceremony at the Weisman Art Museum. The award, the highest given to alumni, recognizes outstanding achievement in a professional field or in community service.

Palmer graduated from Pennsylvania State University in 1946 and received a doctorate in geology from the University of Minnesota in 1950. He is known for his studies of very ancient rocks and his contributions to the understanding of the origin and evolution of life. Palmer has spent much of his nearly 50 years as a geologist with the U.S. Geological Survey and at the State University of New York at Stony Brook. In a 13-year marathon of effort, he edited the 30-volume, 20,000-page "Decade of North American Geology" series, which describes in detail all aspects of the geology of North America discovered over the past century. It was completed in 1998.

Conferral of his award is part of the 125th anniversary celebration of the University of Minnesota department of geology and geophysics. □

Who: James Papike
What: Outstanding Achievement Award
When: 8 p.m. (approx.) Friday, May 21
Where: Weisman Art Museum
Contact: Deane Morrison, (612) 624-2346

PLANETARY GEOLOGIST JAMES PAPIKE TO RECEIVE U OF M AWARD

MINNEAPOLIS / ST. PAUL--James Papike, Regents Professor in the University of New Mexico department of geology and geophysics, will receive an Outstanding Achievement Award from the University of Minnesota Friday, May 21, in an evening ceremony at the Weisman Art Museum. The award, the highest given to alumni, recognizes outstanding achievement in a professional field or in community service.

Born in Virginia, Minn., Papike received a bachelor's degree in 1959 from the South Dakota School of Mines and Technology and a doctorate in geology in 1964 from the University of Minnesota. He has made many contributions to the fields of planetary materials and processes, trace element chemistry and crystal chemistry of rock-forming minerals, and comparative planetary mineralogy. He has served as an adviser to NASA in several capacities and in 1973 received the NASA Medal for Exceptional Scientific Achievement, for contributions to lunar petrology and to the philosophy of studying lunar samples. In addition to his professorship, he is director of the Institute of Meteoritics at the University of New Mexico.

Conferral of his award is part of the 125th anniversary celebration of the University of Minnesota department of geology and geophysics. □

UNIVERSITY OF MINNESOTA JUNE STARWATCH

by Deane Morrison

The sun pauses at its pinnacle in June, showering us with blinding noon hours and the shortest nights of the year. Mars is on the move; the red planet edges close to one of the brightest stars, then backs off. Venus shines brilliantly before plummeting out of the evening sky, and the summer constellations continue their entry into the prime viewing hours.

The sun reaches its solstice at 2:50 p.m. CDT on the 21st. Solstice, from the Latin for "sun stands still," refers to the sun's apparent slow motion in the north-south direction at this time of year. Day lengths vary little during the month before and after a solstice. At the moment of the summer solstice, the sun reaches a point directly over the Tropic of Cancer. According to our calendar, that marks the beginning of summer. But according to many ancient peoples, including the Celts, from whom we inherit many astronomically based holidays, summer ran from May Day until August 1st, and the solstice was celebrated as midsummer.

Mars drifts westward with respect to the stars, particularly Spica, the brightest star in Virgo. Mars gets within two degrees--four full moons--of Spica and stays at about that distance from the 1st to the 15th., then begins to backtrack eastward. While they are close, the difference in their colors should be obvious, especially through binoculars. Spica's bluish-white hue lies on the other end of the spectrum from the Red Planet's ruddy glow.

Venus reaches its greatest distance from the sun on the 11th. But the line connecting the two lies at a rather low angle to the horizon, and so Venus won't be as high as it has been. In the coming weeks, Venus will drop from the evening sky as it heads between Earth and the sun. It's still pretty bright, though, and in the middle of the month, you may find Mercury in the sun's afterglow far to the lower right of Venus.

Jupiter and Saturn rise in that order a few hours before dawn. Jupiter, the brighter, and its ringed companion are slowly drawing closer and will have a conjunction in about a year.

The full moon of June is called the strawberry moon by Algonquin Indians and is also known as the rose moon. This year it arrives around 4:30 p.m. CDT on the 28th, several hours before rising over the Midwest. Because full moons always appear opposite the sun in the sky, the full moon of June, being near the summer solstice, hugs the horizon and looks reddish for a long time.

New moon arrives on the 13th. On the 16th, a thin crescent will hang just below Venus-- always a pretty sight, like a cosmic semicolon. Waning moons will visit Jupiter and Saturn in the morning sky between the 9th and 11th.

Bootes, the kite-shaped herdsman, sails high, front and center across the evening sky. Just to the east, the Coronal Borealis, or northern crown, hangs like a necklace. Again just to the east, Hercules, upside down from our perspective, wields his club. Beyond Hercules is Vega, the brightest star in the Summer Triangle. To the southeast, Scorpius raises its claws. The J-shaped form of the scorpion is set off by Antares, its red heart.

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Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:
Deane Morrison, University News Service, (612) 624-2346,
dmorris@mailbox.mail.umn.edu

5/21/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

What: Strategies for promoting resilience in youth analyzed at U of M
When: 2:30 to 4 p.m. Thursday, May 27
Where: 140 Nolte Center, 315 Pillsbury Dr. S.E., Minneapolis
Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
(612) 624-8038

INTERNATIONAL PANEL ON YOUTH ISSUES AT UNIVERSITY OF MINNESOTA

MINNEAPOLIS/ST. PAUL-- Fifteen prestigious Kellogg International Leadership Fellows will be at the U of M campus/Twin Cities May 26-28 for a seminar exploring practical applications of resiliency and attachment theory in youth development programs and schools. Three of the fellows will provide a presentation open to the public, where they will discuss strategies for promoting resilience in youth based on their experiences.

- Zoica Bakirtzief of Brazil is developing a vocational training program for youth with disabilities.
- Miguel Guajardo works with Mexican-American youth in south Texas investigating the role of community in youth development and is project coordinator for the Urban Issues Program at the University of Texas at Austin.
- Judy Mckenzie teaches in the primary education department of Rhodes University in Capetown, South Africa, and specializes in the areas of special needs education, anti-bias, and resilience in children.

This public presentation is sponsored by the university's Children, Youth, and Family Consortium, the World Health Organization's Division of General Pediatrics and Adolescent Health, the Konopka Institute for Best Practices in Adolescent Health and the Office of International Programs.

Public parking is available in the Church Street ramp. For more information contact the Children, Youth, and Family Consortium at (612) 626-1212 or cyfc@tc.umn.edu. □

What: U of M Jail 'n Bail to raise funds for Special Olympics
When: 8 a.m. to 5 p.m. Tuesday, May 25
Where: Northrop Mall (east bank campus)
Contacts: Matt Osterman, Sigma Alpha Epsilon, (612) 623-3975
Bob San, News Service, (612) 624-4082

**SEND YOUR FRIENDS TO THE SLAMMER--U OF M FRATERNITY
TO RAISE FUNDS FOR SPECIAL OLYMPICS WITH JAIL 'N BAIL EVENT**

MINNEAPOLIS / ST. PAUL--The University of Minnesota's Sigma Alpha Epsilon fraternity and the Minneapolis Police Department are hosting a fifth annual Jail 'N Bail fundraiser for Special Olympics from 8 a.m. to 5 p.m. Tuesday, May 25, on Northrop Mall on the east bank of the Twin Cities campus/Minneapolis.

Students, faculty and staff can have their friends and associates "arrested" and brought to a mock jail on the mall. Once there, the "jailbirds" will be given a cell phone and asked to make bonds of \$50. They are then released from jail and treated to a free lunch and complimentary t-shirts.

All proceeds from the event go toward Special Olympics Minnesota. □

What: Sadoff lecture on pharmacy, law and ethics
When: 12:15 p.m. Wednesday, May 26
Where: Room 7-135 Weaver Densford Hall
Contact: Amy Olson, College of Pharmacy, (612) 624-4671
Amy Johnson, Academic Health Center, (612) 625-2640

VISITING LECTURER TO SPEAK ON MORALITY, LOYALTY AND SELF-INTEREST

MINNEAPOLIS / ST. PAUL--Bernard Gert, professor of philosophy at Dartmouth College, will speak at the University of Minnesota College of Pharmacy's Eighth Annual Max and Rose Sadoff Memorial Symposium on Pharmacy, Law and Ethics at 12: 15 p.m. Wednesday, May 26. He will deliver his lecture, "Morality, Loyalty & Self-Interest," in Room 7-135 Weaver-Densford Hall, 308 Harvard St. S.E., Minneapolis.

Gert, who has been associated with Dartmouth College since 1959, also has served as visiting professor at Johns Hopkins University, Edinburgh University, the Hebrew University of Jerusalem and the Nacional Universidad de La Plata and Universidad de Buenos Aires. At Dartmouth, he chairs the department of philosophy and is the Stone Professor of Intellectual and Moral Philosophy.

Gert is the recipient of countless awards, including the National Endowment for the Humanities Fellowship and the National Science Foundation Sustained Development Award. He has received the Fulbright Award in both Israel (1985-86) and Argentina (1995).

His current book, published by Oxford University Press, is titled "BIOETHICS: A Return to Fundamentals." Gert is the author of several books related to philosophy, ethics and medicine and has written dozens of journal articles on the same subjects.

The Max and Rose Sadoff Memorial Symposium was established in 1992 by Robert and Harold Sadoff in memory of their parents, both 1925 graduates of the College of Pharmacy. □

What: U of M Staff Day
When: Wednesday, June 2
Where: Minneapolis/St. Paul campuses
Contacts: George Hoh, coordinator, (612) 626-7984, hohxx001@tc.umn.edu
Mike Nelson, News Service, (612) 626-7701

JAZZ MUSIC, GOSPEL CHOIR, ICE CREAM & TREATS FOR U STAFF

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof has declared Wednesday, June 2 as Staff Day--a day to celebrate the contributions of more than 9,000 civil service, bargaining unit and other university staff and employees. Staff Day activities will include free maroon and gold ice cream, live music and a food drive.

Events will take place at Coffman Union (Minneapolis) and at the St. Paul Student Center Terrace. Here's a sampling of events:

Coffman Union

11 a.m. Jazz band
 Noon Staff chorus, woodwind ensemble, gospel choir
 12:30 p.m. Speakers--President Mark Yudof, Vice President for Human Resources Carol Carrier and Civil Service Committee chair Mary Towle

St. Paul Student Center Terrace

11 a.m. Jazz band
 11:40 a.m. Speakers--Yudof, Carrier and Towle
 12:55 p.m. Staff chorus, woodwind ensemble, gospel choir

"Hardly a week goes by without some media reference to the university," said Staff Day coordinator George Hoh. "You can read or listen to stories about faculty contributions to the community, student athletes, presidential decisions or regents' appointments. There's little mention of the people who remove toxic waste from K-12 classrooms, volunteer their time to Toys for Tots, maintain the university's leading edge technology programs or attract the attention of prestigious schools like Yale and MIT because of the way they communicate and maintain critical business information. Staff Day is our opportunity to recognize the efforts of these people." □

What: U of M seeks donations for statewide book drop
When: Through June 30
Where: University of Minnesota campuses
Contacts: Nina Shepherd, University News Service, (612) 625-8510
Tom Garrison, UMAA, (612) 624-2323; 1-800-UM-ALUMS

U OF M SEEKS GREATER MINNESOTA BOOK DONATIONS FOR CONSTRUCTION OF PERMANENT WALL OF BOOKS EXHIBIT

The University of Minnesota is calling on Minnesotans to check their attics, garages and libraries for books by or about university alumni, faculty and staff they'd like to donate to the university's new Wall of Books exhibit. The exhibit will be on permanent display in the Heritage Gallery of the university's 230,000-square-foot Gateway alumni visitors center, opening this fall on the Twin Cities campus.

The exhibit—which will be 60-feet wide and 35-feet high and include some 5,000 books—aims to create a visual image representing the knowledge and creativity fostered by the university. Contributions from Greater Minnesota are especially needed since the exhibit will highlight accomplishments of the entire university system and its impact on the state.

To be considered for the exhibit, books must be hardbound, have legible type on the spine and be no larger than 11 by 14 inches. Contributions can be mailed to the University of Minnesota Alumni Association, 501 Coffman Union, 300 Washington Ave. S.E., Minneapolis, MN 55455, or dropped off at the main libraries at the university's Crookston, Duluth and Morris campuses. Contributions will be accepted through June 30.

For more information, call the Wall of Books info line at (612) 626-4707.



What: Meeting: Distinguished professors, present and future
Where: Marcy Open School, 415 4th Ave. S.E., Minneapolis
When: 10 a.m. Wednesday, June 2
Contacts: Deane Morrison, University News Service, (612) 624-2346
Myrna Smith, Graduate School, (612) 625-1093

DISTINGUISHED U PROFESSORS MEET FUTURE STARS

MINNEAPOLIS / ST. PAUL--The five 1999 winners of the University of Minnesota Distinguished McKnight Professorship will present their research to Marcy Open School 5th and 6th graders at 10 a.m. Wednesday, June 2. The professors are expected to bring show-and-tell items such as live mosquitoes and a video of chimpanzees in the wild. The school is located at 415 4th Ave. S.E., Minneapolis.

The five professors and their fields of study are Ann Fallon, entomology; Hung-wen (Ben) Liu, chemistry; David Pui, mechanical engineering; Anne Pusey, ecology, evolution and behavior; and Michael Ward, chemical engineering and materials science. The faculty members will spend about an hour with 26 students of Sara Dotty. □

What: Heroic Japanese diplomat subject of lecture
When: 6 p.m. Monday, June 7
Where: Beth El Synagogue, 5224 West 26th St., St. Louis Park
Who: Hillel Levine, professor of sociology and religion, Boston University
Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
 (612) 624-8038

U OF M CO-SPONSORS LECTURE ON HOLOCAUST HERO

MINNEAPOLIS/ST. PAUL--Hillel Levine, professor of sociology and religion at Boston University and director of its Center for Judaic Studies, will speak about heroic Japanese diplomat Chiune Sugihara at 6 p.m. Monday, June 7, at Beth El Synagogue, 5224 West 26th St., St. Louis Park. Sugihara, who is credited with saving the lives of up to 10,000 Jews during World War II, is the subject of Levine's 1996 book, "In Search of Sugihara." Levine's lecture is co-sponsored by the University of Minnesota Center for Holocaust & Genocide Studies.

In 1940 Sugihara, while serving as the Japanese Counsel General in Kovno, Lithuania, disobeyed his government by writing transit visas for Jews through the Soviet Union and into Japan. When he returned to Japan after the war, he was fired from the Foreign Service. In 1985, the year before he died, he was given Israel's highest humanitarian award, Righteous Among the Nations. Levine has made a thorough examination of the life of Sugihara, and in his book and lectures goes into depth about why Sugihara risked his career by disobeying his superiors.

Levine received rabbinical ordination in 1969 from the Jewish Theological Seminary of America and a doctorate in 1974 from Harvard University. He is currently a fellow of the Harvard Russian Research Center and visiting professor at the Logos Theological Seminary in Kyoto, Japan. From 1980 to 1983 he directed the preliminary planning of the Holocaust Museum in Washington, DC.

The program is sponsored by the Japan America Society of Minnesota, with co-sponsors the National Association of Japan America Societies, the Jewish Community Relations Council, the Minneapolis Chapter of Hadassah, the University of Minnesota Center for Holocaust & Genocide Studies and Hillel. Tickets are \$10 for JASM members, \$15 for nonmembers, \$5 for students, and are available by calling (612) 920-3512. □

FOR RELEASE: 10 a.m. CDT Wednesday, June 2.

**Contacts: Kris Davidson, astronomy dept., (612) 624-5711
Roberta Humphreys, astronomy dept., (612) 624-6530
Deane Morrison, University News Service, (612) 624-2346**

BRIGHTENING OF BRIGHTEST KNOWN STAR PUZZLES ASTRONOMERS

MINNEAPOLIS / ST. PAUL--Data from the Hubble Space Telescope and ground telescopes show that Eta Carinae, the star with the greatest intrinsic brightness and the strongest stellar wind, is radiating a lot more light these days, and astronomers can't figure out why. "Eta" is about 7,500 light-years from Earth and is just visible to the naked eye in the Southern Hemisphere. Telescopes reveal it as a central star between two huge lobes of gas and dust, the result of a tremendous explosion observed about 150 years ago. The whole structure stretches across a thousand solar systems worth of space.

The brightening of Eta is the subject of a press conference at 10 a.m. CDT Wednesday, June 2, at the 100th anniversary meeting of the American Astronomical Society in Chicago.

"Eta's brightness routinely wiggles plus or minus 10 percent," said University of Minnesota astrophysicist Kris Davidson. "But we've gotten four spectra from Hubble in the last two years, and its brightness is rising at an incredible rate." The central star has more than doubled in brightness since 1977. The current rise follows a dip in brightness between 1992 and 1997. Davidson and Ted Gull of NASA Goddard Space Flight Center in Greenbelt, Md., first noticed the abrupt change in mid-April. The brightening was immediately confirmed by ground-based observatories in Chile, South Africa and Australia. The brightening was less dramatic for them because only the HST can separate the central star from its surrounding cloud of debris.

Astrophysicists familiar with Eta expected its spectrum to change in 1998, but no one expected a major jump in brightness, Davidson said. The brightening is all the more puzzling because it's happening uniformly at all wavelengths. It was expected that if the object cooled off, its spectrum would show a dimming at the more energetic ultraviolet wavelengths and a higher output of less energetic visible light. Instead, its across-the-board brightening suggests some kind of cosmic shroud being lifted.

"The clearing of dust in our line of sight could do that kind of thing, but that's a lot to ask of dust," said university astrophysicist Roberta Humphreys. "Dust is coming out from Eta in all directions. Therefore, it's unlikely that a cloud of dust just moved across our line of sight and is now clearing. To move like that, the dust must be in orbit. But any dust in orbit would be too hot to exist."

Why is Eta Carinae powering up? While no one can say, Eta's recent behavior fits its reputation as one of the most enigmatic celestial objects known. The object radiates a stream of energetic particles--a stellar wind--that is 100 to 1,000 times stronger than the winds generated by most massive stars. Every millennium, Eta loses enough mass to equal that of our sun, Davidson said.

Other collaborators were Kazunori Ishibashi of the University of Minnesota, Patricia Whitelock of the South African Astrophysical Laboratory, Peter McGregor of Mount Stromlo Observatory in Australia, Mario Hamuy of the University of Arizona and Travis Metcalfe of the University of Texas. The work was funded by NASA via a grant from the Space Telescope Science Institute. □

What: New head of psychiatry named
Who: Charles Schulz, M.D., (216) 844-3881
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

NEW HEAD OF U OF MINNESOTA DEPARTMENT OF PSYCHIATRY NAMED

MINNEAPOLIS / ST. PAUL--Dr. S. Charles Schulz has been named head of the department of psychiatry at the University of Minnesota, effective July 1.

Schulz is currently professor and chair of the department of psychiatry at Case Western Reserve University and director of psychiatry at University Hospitals of Cleveland.

"Dr. Schulz's outstanding attributes make him ideally suited to lead the psychiatry department and mental health programs of the Medical School," said Dr. Al Michael, dean of the University of Minnesota Medical School. "His leadership experiences at Case Western Reserve Medical School and at the National Institutes of Health, as well as his contributions to schizophrenia research, will add further luster to our department of psychiatry."

Schulz received a medical degree and residency training at the University of California, Los Angeles. He has previously held positions at the National Institute of Mental Health, the Medical College of Virginia, the University of Pittsburgh and Georgetown University. He is internationally recognized for his research in schizophrenia. □

What: U first in country to offer minor in complementary therapies
Who: Mariah Snyder, Ph.D., program director, (612) 624-2686
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF MINNESOTA OFFERS COUNTRY'S FIRST GRADUATE MINOR IN COMPLEMENTARY HEALING

MINNEAPOLIS / ST. PAUL--The University of Minnesota will be the first in the nation to offer a graduate-level minor in complementary therapies and healing practices, beginning fall semester 1999.

Master's and doctoral students will learn about complementary therapies both in the classroom and through involvement with faculty research. Students completing degrees in public health, nursing, pharmacy, food science and nutrition and other disciplines will pursue the minor to complement their major coursework.

"With the increasing public interest in complementary therapies, it is important that the university prepare practitioners and researchers who can provide persons with the quality care they desire," said Mariah Snyder, director of graduate studies for the minor and professor of nursing.

"The complementary therapy approach continues to be evidenced-based and strongly supported by the health professional students and practicing communities," said Dr. Frank Cerra, senior vice president for health sciences. "By adding this new graduate-level minor, the university will continue to provide a sound basis for educating practitioners and consumers about what is known and what applications are associated with improved outcomes."

Several courses in the curriculum will be offered through the Center for Spirituality and Healing. The center promotes interdisciplinary education, research and patient care that integrates biomedical, complementary, cross-cultural and spiritual aspects of care. Courses currently offered include therapeutic touch, spiritual and faith practices, naturopathy and chiropractic and massage therapies. □

FOR RELEASE: 9:20 a.m. CDT Thursday, June 3

**Contacts: Robert Gehrz, rgehrz@ast1.spa.umn.edu, (612) 624-7806
Chick Woodward, chelsea@tana.uwyo.edu, (307) 766-2706
Sumner Starrfield, starrfie@nova.la.asu.edu, (602) 965-7569
Deane Morrison, University News Service, (612) 624-2346**

STELLAR HYDROGEN BOMBS CAPTURED IN HUBBLE IMAGES

MINNEAPOLIS / ST. PAUL--New images from the Hubble Space Telescope show huge clumps of gas ejected by explosions of novae within our galaxy. So large are the gas clouds that astronomers may have to revise their ideas about the importance of these periodically exploding stars in supplying the raw materials for our own and other solar systems. The images will be discussed at 9:20 a.m. CDT Thursday, June 3, at the American Astronomical Society meeting in Chicago.

The explosions occur on the surfaces of white dwarf stars--small stars that pack a mass equal to our sun into a ball the size of Earth. Most white dwarfs are burnt-out cinders with no nuclear reactions taking place. But in two-star systems called cataclysmic variables, a white dwarf pulls gas--mostly hydrogen--from a nearby stellar neighbor. The hydrogen accumulates, and after perhaps 10,000 years it begins thermonuclear fusion, forming helium and other elements. The heat released by the nuclear activity builds up until an explosion occurs. These are the first ejections of gas from novae to be imaged by the NICMOS (near infrared camera and multi-object spectrometer) instrument on the Hubble Telescope. The images show the gas coming off the white dwarfs in thick clumpy shells.

Since the Big Bang produced only hydrogen and helium, all other elements have come from various types of stars, including novae. Thus, the proportion of carbon, oxygen, iron and other elements in our galaxy slowly grows because they are derived ultimately from the basic building blocks of hydrogen and helium. While much of the matter that forms our galaxy comes from the sun or massive stars in supernova explosions, "certain important elements can only be produced by novae," said Hubble Nova Team member James Truran of the University of Chicago.

Other studies have shown that these novae have ejected material that, when compared to our sun, contains more carbon, nitrogen, oxygen, neon, magnesium and aluminum. Some of those elements may have found their way into our evolving solar system.

"It is possible that some of the aluminum in our own solar system came from nova explosions," said Sumner Starrfield of Arizona State University. "There is evidence that novae eject radioactive aluminum, and that radioactive aluminum once existed in our solar system but has since decayed."

"Our pictures show filaments, blobs, streams and other structures that can only be seen by the Hubble," said Chick Woodward of the University of Wyoming. "We can analyze these pictures and determine now much gas is blown into space by the various systems we are studying."

The team will compare the ejected shells of gas to computer simulations of nova explosions, which should improve the calculations and the team's confidence in its understanding of this phenomenon.

"These observations imply that a great deal more material is ejected in a nova explosion than predicted by our calculations, and that could make novas far more important in the evolution of the chemical elements in our galaxy than previously believed," said Starrfield.

Also, said Robert Gehrz of the University of Minnesota, infrared studies show that dust grains that condense in the shells ejected by these novas are similar to the small dust grains released from comets in our solar system.

"It's therefore possible that novas are among the stars that produce the solid grains that are the building blocks of planets," Gehrz said.

Two novas imaged by NICMOS formed dust (QV Vul and QU Vul, in the constellation Vulpecula) and one did not (V1974 Cyg, in the constellation Cygnus). Gehrz said the team hopes the structures seen by Hubble will help reveal where dust forms in nova shells and why some novas produce grains of dust and others don't. QV Vul is particularly interesting, Gehrz said.

"During the late 1980s, this nova was found to produce four types of astrophysical grains at various times during a two-year period following its eruption," he said. That dust contained carbon, silicates, silicon carbide and hydrocarbons--similar to material found in solar system meteorites, suggesting that "stardust" was present in our primitive solar system while the planets were forming. "Our earlier models of QV Vul suggested that the carbon dust components formed in fast-moving polar flumes, while the silicates formed in a slow-moving equatorial ring. We hope the NICMOS images will enable us to evaluate the correctness of this model," said Gehrz.

Matthew Greenhouse, of NASA Goddard Space Flight Center in Greenbelt, Md., called the Hubble nova program an important first step in defining science programs for future NASA space missions.

"Most of what astronomers know about how novas affect the chemical evolution of galaxies is limited to studies of novas in the Milky Way," Greenhouse said. "The heavy elements ejected by nova explosions produce bright infrared light signatures that will allow the Infrared Spectrograph instrument aboard the NASA Space Infrared Telescope Facility (SIRTF, scheduled for launch in 2001) to discover and study novas in a wide range of galaxies for the first time."

Other members of the Hubble Nova Team include Kunegunda Belle, University of Wyoming; Nye Evans and Stuart Eyres of the University of Keele in England; Michael Schuster of the University of Minnesota; and Joachim Krautter of the State Observatory and University of Heidelberg, Germany. This work was funded by NASA and the Space Telescope Science Institute. False color gif images will be available on the Internet at <http://wapiti.uwyo.edu/hst-nova> after 9:20 a.m. CDT Thursday, June 3. □

What: U concludes investigation, will reimburse NIH
Who: Michael Till, D.D.S., dean, School of Dentistry, (612) 625-9982
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U CONCLUDES AUDIT AFTER PAIN RESEARCHER'S DEATH; WILL REPAY NIH

MINNEAPOLIS / ST. PAUL--University of Minnesota officials have concluded their audit of the laboratory of Dr. Keith Kajander and have decided to reimburse the National Institutes of Health (NIH) approximately \$11,000 for cocaine he ordered using NIH grant money.

Such an audit is standard following the death or departure of an individual who uses controlled substances in research. Kajander died April 28. The audit revealed that he ordered 140 grams of cocaine hydrochloride in 28 shipments between April 1992 and April 1999. His laboratory records account for the receipt and storage of cocaine, but do not indicate exactly how much of the material was used in his experiments. For that reason, the university will pay the NIH for all of the federal grant money that Kajander used to purchase cocaine over the past seven years.

The Hennepin County Medical Examiner confirmed for the University of Minnesota Police Department that Kajander died after a self-administered cocaine overdose. University police issued a report today (June 3). The death certificate prepared by the medical examiner will not be available for at least two weeks.

On June 17 a university task force will begin a thorough review of existing policies related to the use of controlled substances in research. Kajander held a valid federal license from the Drug Enforcement Administration, and as a principal investigator he was authorized to make purchases on the grants for his research.

Kajander used cocaine and other controlled substances for pain research. He published several scientific articles on pain, at least one of which dealt with his research involving cocaine. □

What: Siehl Prize for Excellence in Agriculture
Who: Benjamin Pomeroy, Willis Anthony, Earl Olson
When: Awards ceremony Wednesday, July 7, 1999
Contacts: Dani O'Reilly, College of Agricultural, Food, and Environmental Sciences, doreilly@tc.umn.edu or (612) 624-3235
Deane Morrison, University News Service, (612) 624-2346

THREE WIN SIEHL PRIZE FOR EXCELLENCE IN AGRICULTURE

MINNEAPOLIS / ST. PAUL-- Three men will share \$150,000 that accompanies the Siehl Prize for Excellence in Agriculture when the 1999 awards are presented by University of Minnesota President Mark Yudof Wednesday, July 7, during a global agricultural summit titled "Exploring our Global Community."

The College of Agricultural, Food, and Environmental Sciences at the University of Minnesota awards the Siehl Prize every two years to one person in each of three categories: academic, production and agribusiness. The award was established by Eldon Siehl, a businessman interested in production agriculture who established the award to recognize professionals who strive to improve the agriculture industry. This is the third trio of winners to receive the Siehl Prize.

The 1999 honorees:

- Benjamin Pomeroy. Since arriving at the university's division of veterinary medicine in 1934, he has compiled a long list of accomplishments, including groundbreaking work that helped control salmonella, mycoplasma, and other potentially devastating infections that once threatened the poultry industry.
- Willis Anthony. Anthony has blended public service with private enterprise over the course of his careers in economics, education and farming. His Century Family Farm operation in Nicollet County plants 2,400 acres of grain and produces 15,000 hogs annually.
- Earl Olson. Olson founded Jennie-O Foods Inc. in 1949. During a career that spanned half a century, he was credited with helping Minnesota's fledgling turkey industry take flight. He is also known for his civic involvement.

What: Symposium on smallest proteins, with opera about 'peptides'

When: June 26-July 1

Where: Minneapolis Convention Center

Contacts: George Barany, U of M Chemistry Department, (612) 625-1028

Gregg Fields, Florida Atlantic University, (561) 297-2093

Teri Charest, Academic Health Center, (612) 624-4604

Deane Morrison, University News Service, (612) 624-2346

Nancy Alfton, (612) 521-5860

SMALL PROTEINS WITH BIG ROLES: 16TH AMERICAN PEPTIDE SYMPOSIUM

MINNEAPOLIS / ST. PAUL--The latest research on peptides--small molecules akin to proteins--will be presented at the 16th American Peptide Symposium, "Peptides for the New Millennium," June 26 through July 1, at the Minneapolis Convention Center. The University of Minnesota will serve as host institution for more than 1,000 scientists who will discuss peptides used in appetite suppression, conception, contraception, pain blocking, organ transplantation, HIV treatment and numerous other functions. The closing banquet July 1 will feature an opera about peptides, sung by University of Minnesota School of Music faculty and students. Also, talented scientists ages 10-18 will present their own research projects at a "Junior Symposium" June 27.

By definition, peptides are proteins containing a small number of amino acid building blocks. "Small" isn't rigidly defined, according to peptide chemist and symposium co-chair George Barany of the University of Minnesota, but peptides generally range from two to 100 amino acids. Besides insulin, naturally occurring peptides include many neurotransmitters, as well as oxytocin, a hormone used to induce labor and lactation; snail, spider and bee venoms, many of which have medicinal uses; and natural painkillers known as endorphins (endogenous morphine-like chemicals). Scientists are continually searching for more knowledge about how peptides work. The more that is known, the easier it is to design peptides themselves or drugs to mimic or counteract them.

Talks will include such topics as the use of conotoxins (from deadly marine mollusks called cone shells) in drug design; a peptide from gila monsters that may be useful in diabetes treatment; a human-designed peptide that blocks new blood vessel growth and tumor growth in mice; and the role of peptides in pre-programmed cell death. A complete list is on the Web at www.chem.umn.edu/16aps.

Bruce Merrifield, a 1984 Nobel Prize winner who developed a new way to synthesize peptides, will chair a panel discussion of prospectives for the new millennium. The American Peptide Society has named its Merrifield Award for excellence in peptide chemistry for him; the 1999 winner is Daniel Rich of the University of Wisconsin, a graduate of the University of Minnesota. Rich laid the groundwork that led to the development of agents called protease inhibitors that work against HIV-1. Rich will speak June 29.

For more information check the Web site or call the symposium hotline at (612) 624-7505. □

What: Outstanding teaching award, biological sciences

Who: David Bernlohr, (612) 624-2712

Contact: Nancy Rowe, College of Biological Sciences, (612) 624-0774

DAVID BERNLOHR REAPS BIOLOGICAL SCIENCES TEACHING AWARD

MINNEAPOLIS / ST. PAUL--David Bernlohr, professor of biochemistry at the University of Minnesota, will receive the Stanley Dagley Distinguished Teacher Award from the university's College of Biological Sciences during commencement ceremonies, which begin at 7:30 p.m. Saturday, June 12, in Northrop Auditorium. The award honors outstanding contributions to undergraduate education.

Bernlohr received a bachelor's degree in biochemistry from the university in 1978 and a doctorate from the University of Illinois, Urbana, in 1982. He joined the College of Biological Sciences biochemistry faculty in 1985. His research interests center on the biochemistry of lipids.

The award is named for the late Dagley, a Regents Professor of biochemistry who was known for his excellence as a teacher. □

What: Honorary doctorate

Who: Eville Gorham, (612) 625-5708

Contact: Nancy Rowe, College of Biological Sciences, (612) 624-0774

U OF M HONORS EVILLE GORHAM AT COMMENCEMENT

MINNEAPOLIS / ST. PAUL--Eville Gorham, Regents Professor of Ecology and Botany at the University of Minnesota, will receive an honorary Doctor of Science degree from the university at its College of Biological Sciences commencement, 7:30 p.m. Saturday, June 12, in Northrop Auditorium.

Gorham is best known for his discovery in the 1950s that acid rain can fall far from its urban, industrial sources to pollute rural lakes and ponds. For two decades and in three countries, he pioneered the study of atmospheric inputs of nutrients and toxins to natural ecosystems. His work has proved vital to the understanding of how ecosystems function and respond to air pollution.

In Great Britain, Gorham demonstrated a correlation between amounts of urban air pollution and the incidence of respiratory disease in cities. He also discovered that mosses and lichens, which depend largely on atmospheric deposition for their mineral supply, can concentrate radioactive fallout in their tissues. This finding led him to note the possibility of strong contamination of northern food chains. Gorham's work on northern peatlands has provided scientists with extensive background data against which to assess the human influences of acid rain and global warming. He has also been active in educating the public about environmental problems.

Born in Halifax, Nova Scotia, Gorham received a bachelor's degree in botany and zoology (1945) and a master's degree in zoology (1947) from Dalhousie University. In 1951 he received a doctorate in botany from University College, London. A member of the University of Minnesota faculty since 1962, he was named a Regents Professor--the highest faculty honor--in 1984. He has received numerous honors, including election to the National Academy of Sciences in 1994. □

What: Obituary

Who: LaVell Henderson, professor emeritus

Contact: Nancy Rowe, CBS communications, (612) 624-0774

LAVELL HENDERSON DIES; WAS PAST ASSOCIATE DEAN OF BIOLOGICAL SCIENCES

MINNEAPOLIS / ST. PAUL--LaVell Henderson, professor emeritus of biochemistry and associate dean of the College of Biological Sciences (CBS) from 1978 to 1984, died Saturday, May 29, of a heart attack at his home in Sandy, Utah. He was 81.

A national leader in nutritional science, Henderson received the Borden Award in Nutrition in 1970. He served as president of the American Institute of Nutrition and chair of the Nutrition Study Section of the National Institutes of Health.

Henderson earned his bachelor's degree in chemistry from Utah State University in 1939 and his master's degree (1941) and doctorate (1947) in biochemistry from the University of Wisconsin, Madison. He was an assistant professor at the University of Illinois, Urbana, from 1948 to 1957 and head of the biochemistry department at Oklahoma State University from 1957 to 1963. He joined the university in 1963 as professor and head of the biochemistry department; he was head of the department for 11 years. He became associate dean of CBS in 1978, a position he held until his retirement in 1984.

Henderson served on the Food and Nutrition Board of the National Academy of Sciences, the editorial board of the Journal of Nutrition, and several committees of the National Institutes of Health and the National Science Foundation. The author of more than 140 research papers on nutritional biochemistry and enzymology, he received an honorary Doctor of Science degree in 1974 and the Centennial Recognition Award in 1988 from Utah State University.

He is survived by his wife, Maurine Criddle Henderson; daughters Janet Landerman, Jeanne Dickey and Linda Buchman; nine grandchildren; and six great-grandchildren.

The family suggests that memorials be sent to the CBS' L.M. Henderson Scholarship Fund. □

What: Board of Regents June agenda
When: Thursday and Friday, June 10 & 11
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contacts: Mike Nelson, nelso037@tc.umn.edu, (612) 626-7701
Nina Shepherd, sheph001@tc.umn.edu, (612) 625-8510

U REGENTS TO ELECT NEW BOARD OFFICERS, ACT ON 1999-2000 CAPITAL BUDGET

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents will elect a new chair and vice chair during their monthly meetings Thursday and Friday, June 10 and 11. Currently William Hogan serves as chair and Patricia Spence serves as vice chair. The election of new board officers will take place at approximately 10 a.m. on Friday, June 11, in 238 Morrill Hall.

The board will also review the 1999-2000 operating budget and act on the 1999-2000 capital budget at approximately 3 p.m. on Thursday, June 10, in 238 Morrill Hall.

Here's a sample of committee agenda items:

Thursday, June 10

- 9 a.m. Facilities, 238 Morrill. Design guidelines and real estate transactions.
- 9:30 a.m. Faculty, staff and student affairs, 300 Morrill. NCAA certification self-study; Enterprise project; enrollment in professional schools.
- 1:30 p.m. Finance and operations, 300 Morrill. Quarterly asset and debt management report.
- 1:30 p.m. Education planning and policy, 238 Morrill. University Center Rochester update.
- 3 p.m. Board of regents, 238 Morrill. 1999-2000 operating and capital budgets.

Friday, June 11

- 8 a.m. Board of regents, Northrop Auditorium lobby. Recognition of award recipients.
- 9:45 a.m. Board of regents, 238 Morrill. Election of board officers. □

What: U of M student infected with bacterial meningitis
Contact: Dr. Ed Ehlinger, Chief Health Officer, Boynton Health Service, (612) 625-1612
Buddy Ferguson, Minnesota Department of Health, (651) 215-1306

U OF M STUDENT DIAGNOSED WITH MENINGOCOCCAL INFECTION IN CRITICAL CONDITION

MINNEAPOLIS / ST. PAUL--A University of Minnesota undergraduate student, admitted to Fairview-University Medical Center on Sunday, June 6, is being treated for meningococcal meningitis.

The patient, Mariam Pourshoushtari, also fondly nicknamed Mirp, a second-year student athlete from Maryland, who lives off-campus in Minneapolis, is currently listed in critical condition.

Ms. Pourshoushtari's parents have chosen to make information about their daughter's condition public out of concern for the welfare of university students.

Meningococcal meningitis is an acute bacterial disease characterized by sudden onset of fever, vomiting, headache, confusion and, in some cases, seizures. The disease is spread through direct contact with oral secretions, involving activities such as kissing or sharing drinking glasses, pop cans, water bottles or smoking materials. It is not spread though the air, like colds or flu. While meningococcal meningitis can be contagious, the majority of cases turn out to be sporadic, resulting in no transmission to another person. Unless you've had direct oral contact with the ill person, you're not considered to be at risk.

The university is working with the Minnesota Department of Health to identify and contact students, faculty and others who might have been in significant contact with Ms. Pourshoushtari over the past seven days. Over the past 48 hours, university officials have met individually with students, teammates and faculty who were in contact with her over the past week. The university's Boynton Health Service is providing evaluation and treatment on an as needed basis, as well as psychological counseling to anybody who might have had exposure to the patient. In addition, University Counseling and Consulting Services is available for psychological counseling at (612) 624-3323.

Questions or concerns may be directed to Boynton Health Service at (612) 624-8400. □

What: U regents name Patricia Spence chair, Maureen Reed vice chair

When: Friday, June 11

**Contacts: Board of regents office, (612) 625-6300
Mike Nelson, News Service, (612) 626-7701**

NEW LEADERSHIP FOR U OF M BOARD OF REGENTS

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents named Patricia Spence board chair and Maureen Reed board vice chair today (Friday, June 11) during their regularly scheduled monthly meetings.

Spence, an at large member of the board, is a homemaker and former mayor of Little Falls. She has a bachelor's degree in home economics from the university, and has taught school, co-directed the U.S. Department of Education Project for Rural Youth, owned and managed a retail business and served as Morrison County economic development director. Spence was elected to the board in 1995; her term expires in 2001.

Reed, a Stillwater resident, is a physician, medical director and vice president for HealthPartners. She has undergraduate and medical degrees from the university, where she also completed her residency. She practices internal medicine on a part-time basis at Freemont Community Clinic in Minneapolis and is a nationally renowned speaker on health care quality, service and cost. Reed, who represents the sixth congressional district, was elected to the board in 1997; her term expires in 2003.

Before today's appointments, William Hogan served as board chair and Spence as vice chair. Announcement of the appointments was made today at approximately 10 a.m. in Morrill Hall.

The 12-member board of regents is the governing body of the University of Minnesota. The legislature elects one regent from each of Minnesota's eight congressional districts and four from the state at large. Regents serve without pay for six years. □

What: South Mall area at U gets new name—Riverbend Commons

When: Friday, June 11

**Contacts: Tom DeRanitz, Institutional Relations, (612) 624-7072
Mike Nelson, News Service, (612) 626-7701**

RIVERBEND COMMONS SELECTED FROM NEARLY 1,000 SUBMISSIONS

MINNEAPOLIS / ST. PAUL--The area on the University of Minnesota Twin Cities campus commonly referred to as the South Mall—the area south of Washington Avenue to East River Road—has been renamed Riverbend Commons. The area encompasses Coffman Memorial Union, Comstock Hall and the Frederick Weisman Art Museum.

Last May the university conducted a renaming contest for the South Mall area. Nearly 1,000 suggestions were submitted and subsequently judged by a committee comprised of students, staff and faculty. Today (Friday, June 11), the board of regents approved the name Riverbend Commons, submitted by three contest participants.

Contest winners—Casey Lee Hayes, Robert Burgett and Jason Schultz—will each receive a \$100 gift certificate to University Bookstores and dinner with university president Mark Yudof and his wife, Judy, at Eastcliff. □

Who: Marie Manthey
What: Honorary degree
When: 2 p.m. Friday, June 18
Where: School of Nursing Commencement, Ted Mann Hall
Contacts: Sandra Edwardson, School of Nursing dean, (612) 624-6504
Jim Thielman, News Service, (612) 624-0214

NURSING INNOVATOR MANTHEY TO RECEIVE U OF M HONORARY DEGREE

MINNEAPOLIS / ST. PAUL--Marie Manthey, who developed an innovative model for nursing care worldwide, will receive an honorary Doctor of Laws degree Friday, June 18, during the University of Minnesota's School of Nursing spring commencement beginning at 2 p.m. in the Ted Mann Hall on the east bank. Manthey is the owner and president of Creative Nursing Management and Creative Healthcare Resources, consulting firms that specialize in the organization and delivery of health care service.

The honorary degree recognizes former students who have attained unusual distinction in their fields or public service, and who have demonstrated leadership on a local, state, national or international level.

While serving as the associate director of nursing at the University of Minnesota Hospital from 1964-71, Manthey developed the concept of the primary nursing system, which assigns the care of a patient to a single nurse for the duration of the patient's hospital stay. The prevailing models at the time divided nursing tasks along functional or team lines. The approach tended to dilute responsibilities so the organization, rather than the individual, was more accountable. Primary nursing is still considered the preferred model of nursing care.

Manthey received her bachelor's (1961) and master's (1964) degrees from the university, and was also director of nursing in St. Paul's United Hospitals (1971-76) and vice president of patient services at Yale New Haven Hospital (1976-78). She has been the owner of her own business since 1978, and her customers include most of the major health care systems in the country plus international firms.

Manthey was elected to the Royal College of Nursing in 1994 and to the Fellows of American Academy of Nursing in 1998. She has published a book on primary nursing and established two professional journals. □

news

What: National conference co-sponsored by U of M's CYFC
When: June 21 and 22
Where: Vanderbilt University, Nashville, Tenn.
Contact: Michael Brott, CYFC, mbrott@tc.umn.edu, (612) 625-8285
 Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
 (612) 624-8038

U OF M'S CHILDREN, YOUTH AND FAMILY CONSORTIUM CO-SPONSORS NATIONAL CONFERENCE 'FAMILY RE-UNION 8'

MINNEAPOLIS/ST. PAUL--The University of Minnesota's Children, Youth and Family Consortium will co-sponsor Family Re-Union, an annual conference moderated by Vice President Al Gore and Tipper Gore, June 21-22 at Vanderbilt University in Nashville, Tenn.

Family Re-Union is a series of annual conferences that brings together policy makers, researchers, community leaders, families and those who work with them to discuss and design better ways to strengthen family and community life in America. In its eighth year, the conference will focus on the interdependence of family and community.

The Family Re-Union conferences bring together about 1,000 people in Nashville, Tenn., and thousands more around the country in community conversations at various sites, through live cybercast and satellite broadcasts of the event. The sites in Minnesota include the Earle Brown Continuing Education Center at the University of Minnesota Twin Cities Campus/St. Paul and the U of M Extension Service-Ramsey County.

Several key participants active in the Stairstep Initiative Program of Minneapolis will participate in an interactive teleconference with Vice President Al Gore. The Stairstep Initiative focuses on identifying how to build community strength among African-Americans. Joining the vice president on stage at Vanderbilt University will be Alfred Babington-Johnson, president and CEO of the Stairstep Initiative. As part of the interactive teleconference, participants located in the teleconferencing room at the General Mills offices will discuss "Owning the Dream: Economic Vitality and Education for Leadership."

Many notable Minnesotans will participate in this year's conference: Dr. Emmett Carson, president and CEO of the Minneapolis Foundation; Louis King II, president and CEO of Summit Academy; Dr. Harry Boyte, co-director, Center for Democracy and Citizenship, U of M; Greg Mason, a neighborhood coordinator for Summit Academy; and Kim Anderson, a community health worker for the White Earth Chippewa Tribe.

The Children, Youth and Family Consortium assembles research and resources to address a variety of issues facing children, youth and families. There are more than 8,000 individuals and organizations participating in the consortium, including faculty, staff and students from the University of Minnesota, educators, mental health care professionals, foundation leaders, business people, and public officials from throughout Minnesota. More information about Family Re-Union is available on the web at www.familyreunion.org, or you can link through the CYFC Web site, www.cyfc.umn.edu. □

starwatch

University News Service
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UNIVERSITY OF MINNESOTA JULY STARWATCH

by Deane Morrison

Earth speeds through its closest point to the sun in early July, and Mars continues to cast its reddish glow for evening viewers. But we lie on the borderline for seeing two major astronomical events this month: in the west, the beginning of a lunar eclipse, and in the east, the emergence of the bright star Aldebaran from behind the dark edge of the moon. Venus sinks low, but the ephemeral summer delights Scorpius and Sagittarius rise high in the south.

In the prime evening viewing hours, Mars shares the spotlight with another red object: Antares, the heart of the scorpion, whose name means "rival of Mars." Scorpius will be low in the south when the sky darkens, and Mars will be a little higher and west of the J-shaped constellation. The red planet is still red, but it's getting smaller as Earth leaves it behind in the orbital race. During July Mars moves eastward, away from the bright star Spica and closer to Antares. The best days to see them, or indeed any evening objects, will be from around the 7th to the 16th, when moonlight is minimal.

Venus, still very bright, drops about 18 degrees in the western sky. But, as expected from the queen of planets, Venus doesn't leave without a final bow. On the 15th, the crescent moon and Regulus, the brightest star in Leo, pay a call. Venus will come out just below the moon, and Regulus, much dimmer, will appear just behind it. Venus drops out of sight as it heads between Earth and the sun. In August it will reappear low in the morning sky.

Jupiter and Saturn will be high in the south and southeast, respectively, at dawn. The two planets will rise ahead of the Pleiades and Hyades star clusters, which lead the well-known group of winter constellations into the sky.

Set against the Hyades is yellowish Aldebaran, the eye of the bull. On the morning of the 10th, the star, having been eclipsed by the old crescent moon, will suddenly emerge from behind the moon's dark trailing edge. The time of reappearance varies with location, but calculations show it will happen at 3:23 a.m. CDT in Duluth. Points south will probably see it a few minutes earlier, points north a few minutes later. The trouble is, Aldebaran will be just barely above the horizon at that time, so unless you have a very clear view and binoculars, you probably will miss it. If you're in the Eastern time zone that night, you should have a good view of Aldebaran's reappearance between about 4:10 and 4:20 a.m. EDT, depending on location.

July's full moon is known variously as the hay moon or thunder moon, and it leaves Midwesterners at the edge of another lunar event the morning of the 28th, when it undergoes a partial eclipse. At our longitude, the moon will be too close to the horizon for us to notice when it

enters the penumbra, or light outer shadow, of Earth. The moon will first touch the umbra, or dark inner shadow, about half an hour before moonset, which occurs at 5:59 a.m. CDT. It's unlikely anyone will see much from the Twin Cities, but people farther west will get a better view. At the midpoint of the eclipse, Earth's shadow will cover 40 percent of the moon's lower disk; this point comes at 5:34 a.m. MDT and 4:34 a.m. PDT.

One thing for sure: The central bulge of our Milky Way galaxy is at its highest on July evenings. The Milky Way runs north-south, and as the sky darkens the bulge should be visible in the southern sky. In the eastern part of the bulge is the Teapot of Sagittarius; to the west, Scorpius. Above the bulge, the stars of Aquila, the eagle, Cygnus, the swan, and Lyra, the lyre, stand out. Far to the north, Cassiopeia also shines at us from our galaxy's river of light.

Mid-summer evenings are the best time to see noctilucent (night-shining) clouds. Visible mostly from latitudes 50 degrees and northward, these clouds appear about an hour after sundown. At heights of 45 to 55 miles, they catch sunlight that has disappeared from view at ground level. Noctilucent clouds move very fast, usually from the east or northeast, and are thought to result from meteoric dust on which ice has crystallized.

Earth reaches aphelion, its farthest point from the sun, at 3 p.m. CDT on the 6th. The sun will be 94.3 million miles away.

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Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:

**Deane Morrison, University News Service, (612) 624-2346,
dmorris@mailbox.mail.umn.edu**

6/21/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

What: Symposium on aging and health
When: June 23-25
Where: Earle Brown Heritage Center, Brooklyn Center
Who: Robert Kane, M.D., (612) 624-1185
Contact: Amy Johnson, Academic Health Center, (612) 625-2640
Jennifer Koehn, Center on Aging, (612) 624-3904

U OF MINNESOTA TO SPONSOR SYMPOSIUM ON SENIOR HEALTH CARE

MINNEAPOLIS / ST. PAUL--Local and national geriatric experts will discuss improving care and health care services for older persons at the ninth annual Summer Institute on Aging and Health Wednesday through Friday, June 23-25, at the Earle Brown Heritage Center, 6155 Earle Brown Drive in Brooklyn Center.

Speakers will discuss the latest information and research devoted to seniors' well-being, including fighting the aging process, strategies and tools for making later-life decisions and understanding how the demographic changes in society will affect health care delivery.

"This symposium is extremely important because it brings together a cross section of people to talk about topical issues and enduring issues in caring for seniors," said Dr. Robert Kane, director of the university's Center on Aging.

The symposium is sponsored by the University of Minnesota's Center on Aging, The Minnesota Area Geriatric Education Center and the Minnesota Chair in Long-Term Care. The agenda can be found at www1.umn.edu/coa/summer.htm. □

What: NSF funds U of M math institute for five more years

Contacts: Willard Miller, institute director, (612) 624-6066

Jim Thielman, News Service, (612) 624-0214

NSF WILL CONTINUE TO FUND U OF M INSTITUTE FOR MATHEMATICS

MINNEAPOLIS / ST. PAUL--Following a national competition, the National Science Foundation (NSF) has awarded \$2.2 million in annual base funding to the University of Minnesota's Institute for Mathematics and Its Applications (IMA) for five years starting in 2000. The IMA's mission is to demonstrate the power of sophisticated mathematics in solving problems that arise in other sciences, engineering and industry. This was the first open contest for funding of math institutes since the original NSF competition that led to the establishment of the IMA in 1982.

The IMA provides collaboration among academic scientists, industrial scientists and mathematicians. It typically receives 60 percent of its \$3.2 million annual budget from the NSF. To be re-funded by the NSF, the institute had to present a proposal detailing its programs and goals for the next five years and pass a rigorous evaluation by outside experts and a site visit by NSF officials.

The only organization of its kinds in the nation, the IMA draws scientists, scholars, postdoctoral students and industry experts from around the world to study math and its application to other fields. "We're not a general-purpose mathematics institute," IMA director Willard Miller said. "The mission of the IMA is very focused. We look for opportunities for mathematics that occur in other applicable areas."

IMA programs change annually in response to new areas of opportunity for math research. The IMA is host to more than 100 visiting scholars and experts each year, with nearly 1,000 more attending a dozen week-long workshops. IMA researchers have recently focused on mathematics in biology to develop simulations to model heart rhythms and the spreads of AIDS in the human body; studied the impact of vaccines on AIDS-infected cells and explored hormones, cancers and infectious diseases.

Through a unique industrial postdoctorate and seminar program, the IMA helps students learn about opportunities in industry and allows corporate participants to benefit from the students' expertise. Often, researchers will work simultaneously on industry problems and their own research, with the two projects generally complementing each other.

More about the institute is available at www.ima.umn.edu. □

What: Longtime U financial aid administrator Philip Morgan to retire
Who: Philip Morgan, (612) 624-5873
**Contact: Donna Weispfenning, Office of Scholarships and Financial Aid,
(612) 624-1606**

LONGTIME U OF M FINANCIAL AID ADMINISTRATOR TO RETIRE

MINNEAPOLIS / ST. PAUL— Philip Morgan, associate director in the University of Minnesota Office of Scholarships and Financial Aid (OSFA), will retire July 30, after 29 years of service at the university.

Morgan was promoted to his current position as head of the scholarships unit after serving for 10 years as an assistant director in both the fiscal unit and the computer services unit of OSFA, where he was responsible for the introduction and management of the university's first computerized financial aid delivery program, adopted in 1984. Prior to that he managed OSFA's processing, work-study, international student and special populations programs.

Morgan was a charter member of the National Association of Sigma Users, a software user group of postsecondary institutions. He has received recognition from the Minnesota Association of Financial Aid Administrators and the Midwest Association of Student Financial Aid Administrators.

Morgan began his career at the university as a financial aid counselor in 1969 after serving as a minister in the United Methodist Church. While pastor of the Prospect Park Community Church in southeast Minneapolis, he led a student tour of civil rights projects in Mississippi. In 1968, he participated in an employment exchange in London, where he held the chaplaincy to Methodist students at Trent Park College of Education. He was minister of Pastoral Concern at Aldersgate Church, St. Louis Park, from 1960-63.

Morgan received a bachelor of arts degree in philosophy from the University of Minnesota in 1956 and a 1960 Master of Scientific Theology graduate of Harvard University in 1960. He and his wife, Marlie, are parents of two adult sons. They live in Prescott, Wis., and own a small farm in Pepin County, Wis. He will continue working as a part-time consultant to the University. □

What: U of M library center named for Elmer Andersen
When: Monday, June 28, 1999
Contacts: Nina Shepherd, News Service, (612) 625-8510
Martha Douglas, U of M Foundation, (612) 626-9712
Tom Shaughnessy, U Libraries, (612) 624-1807

U OF M LIBRARY CENTER NAMED FOR EX-GOVERNOR ELMER L. ANDERSEN

MINNEAPOLIS-ST. PAUL -- The University of Minnesota's new library archives center on the west bank of the Twin Cities/Minneapolis campus will be named the Elmer L. Andersen Library, in honor of the former governor. University President Mark Yudof made the announcement Saturday, June 26, to a group of 500 who were gathered in St. Paul to honor Andersen on his 90th birthday.

"This recognition is uniquely suited to a life that has so profoundly influenced our state, the university and the world of books and publishing," Yudof said.

Andersen and his wife, Eleanor, have been benefactors to the university libraries for many years. Their gifts include collections of rare books and other scholarly documents, now worth millions of dollars. The most recent of these gifts-in-kind was their personal library of some 12,500 volumes, which they donated in March. The books given by the Andersens include botanical, ornithological and natural history collections, a copy of the Kelmscott edition of the works of Geoffrey Chaucer and the archives of the Whittington Press.

University librarian Tom Shaughnessy said, "In view of his stature in the community, his great love of the university, and his many contributions toward improving the quality of life in Minnesota, it is most fitting that this new library facility bears his name."

Also on Saturday, business leaders John Mooty and Wheelock Whitney announced more than \$750,000 has been raised to establish an endowment in Andersen's honor. The endowment is dedicated to the maintenance and expansion of the University Library's special collections.

A 1931 graduate of the university, Andersen was elected to the Minnesota Legislature in 1949 and governor in 1961. He served on the Board of Regents from 1967-75, was a trustee of the University of Minnesota Foundation from 1968 to 1988, and foundation chair from 1979 to 1981. Andersen has also supported the art of fine printing by subsidizing the production of books, supporting novice printers and promoting the Minnesota Center for the Book Arts.

The new archives center is scheduled to be completed in November. □

What: Mary Heltsley named to U of M Rochester post
When: Wednesday, June 30
Contacts: Office of the vice president and provost, (612) 625-0051
Mike Nelson, News Service, (612) 626-7701

HELTSLEY APPOINTED INTERIM CHIEF ACADEMIC OFFICER AT U OF M ROCHESTER

MINNEAPOLIS/ST. PAUL--Mary Heltsley, recently appointed associate vice president in the office of the executive vice president and provost with responsibility for the university's outreach activities, has been named interim chief academic officer for University of Minnesota educational programs in Rochester.

Heltsley will work with University of Minnesota colleges and system-wide units, expanding on faculty teaching and research strengths while building partnerships with community groups, organizations, businesses and participating Minnesota State College and University (MnSCU) campuses.

"Dr. Heltsley is well positioned to develop our plans in Rochester to connect knowledge from research and the academic strengths in the University of Minnesota and MnSCU systems to the educational needs in southeastern Minnesota," said Robert Bruininks, the university's executive vice president and provost. "She is an experienced administrator who is a widely recognized leader in state, national and international policy issues related to the outreach responsibilities of public research and land grant universities."

A native of Kentucky, Heltsley received a bachelor degree from Western Kentucky University, a masters degree from the University of Tennessee and a doctorate from Pennsylvania State University. She has pursued research interests in the field of gerontology and has taught classes in family and child development. Heltsley has taught at Iowa State University, Northern Illinois University, Western Illinois University and Georgia Southern College.

She also served as program coordinator for food and social sciences at the Cooperative State Research Service at the U.S. Department of Agriculture and as assistant dean for research in the College of Home Economics at Iowa State University. Heltsley has been dean of human ecology at the University of Minnesota since 1987 and associate vice president since April 1999. □

media advisory

University News Service
6 Morrill Hall
100 Church St. SE
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612-624-5551

What: Sexual harassment investigators delay findings until Tuesday, July 6
Where: Twin Cities campus/Minneapolis
When: Today (Thursday, July 1)
Contacts: University News Service, (612) 624-6868

MINNEAPOLIS / ST. PAUL--Independent investigators looking into charges of sexual harassment against University of Minnesota athletes have requested an extension of today's (Thursday, July 1) deadline, according to Tonya Moten Brown, university President Mark Yudof's chief of staff and coordinator of the university's independent investigation into academic misconduct.

Citing the need to incorporate information gathered during recent interviews, lead investigator Don Lewis, a Minneapolis attorney, said he is planning to turn over the findings to Brown on Tuesday, July 6. University officials are expected to release nonconfidential portions of the report and the university's response within 10 days of receipt of the findings.

Sources on proposed removal of bald eagle from endangered species list

Patrick Redig

University of Minnesota
Associate Professor, veterinary medicine, and director, Raptor Center
(612) 624-4969 Office
(612) 708-6853 Cell phone
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Mark Martell

University of Minnesota
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President Clinton proposed today (Friday, July 2) that the bald eagle be removed from the endangered species list. The University of Minnesota Raptor Center has played a major role in the recovery of the bald eagle in the United States. Since the center's opening in 1974, veterinarians there have cared for more than 1,000--more than any other program in the world.

Redig, co-founder of the Raptor Center, has overseen the medical treatment of more than 10,000 birds of prey admitted to the center. Redig established an avian veterinary residency and internship program that has attracted students from around the world. He attended Clinton's White House announcement. Martell, the center's conservation program coordinator, is also a member of the northern states bald eagle recovery team.

The Raptor Center's Eagle Track program allows anyone to follow the movement of the birds after they have been returned to the wild. The Web address is <http://www.raptor.cvm.umn.edu/newwebdev/meeen/eagletrack/etrackhp.html>.

What: U of M president implements booster club task force recommendations
Where: Twin Cities campus/Minneapolis
When: Friday, July 9
Contact: Nina Shepherd, University News Service, (612) 625-8510

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof announced today that he will fully implement the recommendations of a June 7 task force report on booster club activities.

Among the recommendations is a requirement that all booster club expenditures be approved in advance by the university's comptroller and be consistent with all applicable NCAA and conference requirements. Additionally, expenditures recognizing "specific and extraordinary achievement," such as bonuses or awards, must be approved by the president and be awarded only if they enhance the programmatic objectives of the university's intercollegiate athletics program.

Finally, the task force recommended that the university establish a mechanism to identify taxable transactions that the university must report for IRS compliance purposes. Yudof has established a working group to implement new procedures that would ensure all taxable transactions are reported to the IRS. □

What: U of M receives \$10 million gift from Carlson family

When: Friday, July 9

Contact: Martha Douglas, U of M Foundation, (612) 626-9712

Alice Pepin, U of M Carlson School of Management, (612) 625-0843

Doug Cody, Carlson Companies, (612) 212-2488

\$10 MILLION GIFT TO U OF M BRINGS CARLSON DONATIONS TO \$46.5 MILLION

MINNEAPOLIS / ST. PAUL--The University of Minnesota has received a gift of \$10 million from Curtis L. Carlson and the Carlson Family Foundation, made before Carlson's death in February. The announcement was made today (Friday, July 9) at the Minnetonka-based Carlson Companies in recognition of the company's annual founder's day.

The largest portion of the gift, \$8 million, will go to the university's Carlson School of Management to create an endowment to provide a permanent source of funding for continuing advancement of the school's excellence. The remaining \$2 million is for the new University Gateway Alumni and Visitor Center. The Heritage Gallery in the alumni center will be named for Curt and Arleen Carlson.

During the past 50 years, Carlson family financial support has totaled more than \$46 million for such university programs and colleges as the Carlson School, the College of Liberal Arts, medical research, the Carlson Lecture Series, the Law School and the Regents Professor awards.

"Just as John Sargent Pillsbury is called the 'Father of the University,' Curt Carlson could be called the 'Modern Father' of this institution," said university President Mark Yudof. "His devotion to the university, and to all that it has meant to this state, never wavered. He was committed to making this the best institution that it could be."

"My father never lost his love for the University of Minnesota, which he always claimed to be the source of so much success and happiness in his life," said Marilyn Carlson Nelson, chair and CEO of Carlson Companies. "We are thrilled, on this occasion of remembrance, to announce this last gift that he made to his beloved alma mater."

"Throughout his life, my father credited the University of Minnesota with giving him the foundation for his success, and not least of all, as the place where he met my mother, his wife of over 60 years," said Barbara Gage, president of the Carlson Family Foundation.

In addition to this new gift, more than \$71,695 in memorial gifts have been made by friends and relatives in honor of Carlson. The university will honor Carlson's contributions during a celebration on campus Sept. 27. □

What: (Under)groundbreaking for neutrino detector
When: 1 to 3 p.m. Tuesday, July 20
Where: Soudan Mine State Park, Soudan, Minn.
Contacts: Judy Jackson, Fermilab, (630) 840-3351
Earl Peterson, University of Minnesota physics dept., (612) 624-0319
Jim Beaty, Soudan Laboratory, (218) 753-6611
Deane Morrison, University News Service, (612) 624-2346

ARRANGE TO ATTEND (UNDER)GROUNDBREAKING FOR NEUTRINO DETECTOR HALL

MINNEAPOLIS / ST. PAUL--Scientists and officials of the U.S. Department of Energy, the state of Minnesota, the U.S. Department of Energy's Fermi National Accelerator Laboratory and the University of Minnesota will break ground in a former iron mine, now a Minnesota state park, July 20 to inaugurate construction of an underground cavern to house a new detector to study the subatomic particles called neutrinos.

As part of an experiment to investigate the nature of neutrinos, physicists at Fermilab, near Chicago, will direct a beam of neutrinos from the Fermilab particle accelerator to the Soudan Mine, a distance of 450 miles. Beginning in 2003, scientists of MINOS (Main Injector Neutrino Oscillation Study) will use the 10,000-ton steel detector to determine whether neutrinos possess mass. The construction and operation of the project is expect to have a significant positive impact on the economy of the Soudan-Tower area of northeastern Minnesota.

After a 1 p.m. luncheon above ground, the "undergroundbreaking" will take place in the mine, with officials and scientists wielding pick axes and making brief remarks. Besides local and U.S. officials, event organizers have invited Gov. Jesse Ventura. Congressman James Oberstar will make a videotaped statement.

To help coordinate press access for this event, please contact the Fermilab Office of Public Affairs for credentials at (630) 840-3351 or topquark@fnal.gov. Complete details of the day's activities and information about travel and accommodations are available from Judy Treend in the Fermilab Office of Public Affairs (630) 840-3351, University of Minnesota physicist Earl Peterson (612) 624-0319 or Jim Beaty at the Soudan Laboratory, (218) 753-6611. □



What: Fun physics demos
When: 1 p.m. Monday, July 19
Where: Physics auditorium, U of M
Contacts: Jim Kakalios, physics department, (612) 624-9856
Deane Morrison, University News Service, (612) 624-2346

NEXT GENERATION OF WILD, CRAZY PHYSICISTS TAKES STAGE AT U OF M

MINNEAPOLIS / ST. PAUL--A new crop of wild and crazy physicists will demonstrate the laws of physics in a series of action-filled demonstrations beginning at 1 p.m. Monday, July 19, in Room 150 of the University of Minnesota's Tate Laboratory of Physics. Billing themselves as Physics Force: The Next Generation, the group comprises university faculty and high school physics teachers and carries on in the tradition of the pioneering Physics Force, a veteran troupe with similar a makeup and repertoire.

Among the "Next Generation's" routines are a demonstration of motion without friction, using a hovercraft with a physics teacher in it; a demonstration of inertia using the "tablecloth pull"; and a lesson on air pressure in which a large can is crushed and a physics professor is trapped inside a bag. The group has previously performed this year for Take Your Daughters to Work Day (April 22) and at the CONvergence Fantasy/Science Fiction Convention in Bloomington (July 4).

Group members are Jon Anderson, Centennial High School physics teacher; Anand Bhattacharya, professor of biosystems and agricultural engineering at the university; Nancy Bresnahan, Hopkins High School physics teacher; Cindy Cattell and Jim Kakalios, associate professors of physics at the university; and Louise Weldon, Tartan High School physics teacher. □

What: Howard Hughes Medical Institute grant to U of M
Who: Alfred Michael, M.D., (612) 626-4949
Contacts: Cyndy Hanson, Medical School, (612) 625-2957
Amy Johnson, Academic Health Center (612) 625-2640

U OF M RECEIVES NATIONAL GRANT TO EXPAND NEUROSCIENCE PROGRAMS IN MINNESOTA SCHOOLS

MINNEAPOLIS / ST. PAUL--The University of Minnesota Medical School has received a \$300,000 grant from the Howard Hughes Medical Institute (HHMI) to enrich neuroscience education in Minnesota schools. The university is one of 35 biomedical research institutions to receive the grant this year.

The three-year grant will support a neuroscience education partnership between the Medical School and the Science Museum of Minnesota. Teachers from 25 Minnesota middle schools will be invited to participate in a weeklong summer neuroscience institute at the university to train them in teaching their students about neuroscience. Also, Science Museum educators, university neuroscience graduate students and faculty members will visit the schools to deliver assembly programs and small group sessions to students about neuroscience. Teachers will receive a "Brain Trunk" classroom resource kit; in addition, an "Ask Dr. Neuroscience" Web site and hotline will provide students and teachers with neuroscience information. Program coordinators estimate it will ultimately reach 10,000 Minnesota students each year in grades five through eight.

The Howard Hughes Medical Institute is a medical organization that employs scientists in cell biology, genetics, immunology, neuroscience and structural biology. Hughes investigators conduct medical research in HHMI laboratories at 71 academic medical centers and universities nationwide. Through its complementary grants program, HHMI supports science education in the United States and a select group of researchers abroad. Since 1988 HHMI has granted \$709 million, primarily for science education from preschool through postgraduate training. For more information see www.hhmi.org/precollege99. □

What: Minneapolis kids' weight, blood pressure up since 1986
Who: Russell Luepker, M.D., (612) 624-6362
David Jacobs, Ph.D., (612) 624-4196
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U STUDY: KIDS' WEIGHT AND BLOOD PRESSURE ON THE RISE

MINNEAPOLIS / ST. PAUL--Minneapolis schoolchildren are heavier and have higher blood pressure than kids of 10 years earlier, according to a University of Minnesota study published in the June issue of the Journal of Pediatrics.

The research team, led by Dr. Russell Luepker in the university's School of Public Health, compared the blood pressure, height and weight of 10,241 Minneapolis children measured in 1996 to those of 8,222 children measured in 1986. The children, ranging in age from 10 to 14, represented five different ethnic groups: white, African-American, Native American, Hispanic and southeast Asian.

Systolic blood pressure, which is the pressure of the blood against artery walls when the heart beats, was noticeably higher in 1996 in both sexes and all ethnic groups. The weight and body mass index was also higher. Generally, the heights of the children also increased, but directly correlated with the increase in weight. Diastolic blood pressure, or the pressure of the blood against artery walls between heartbeats, was lower than 10 years earlier, though the reasons for that are unknown.

Luepker said the rise in weight and blood pressure is because kids watch television and play video games more now than before.

"Kids are eating a lot of high-calorie foods and not getting enough exercise," he said. "It is not totally clear that they are taking in more calories than kids did 10 years ago, but it is clear that they are not getting exercise." □

What: Campus bike race and health fair
When: Sunday, Aug. 8, 9:15 a.m.
Where: U of M Twin Cities campus, east bank
Who: David LaPorte, race director, (612) 625-4983
Brian Maldonado, program in physical therapy,
Brian.A.Maldonado-2@tc.umn.edu
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF MINNESOTA SITE FOR STATE CHAMPIONSHIP BIKE RACE AND HEALTH FAIR

MINNEAPOLIS / ST. PAUL--The University of Minnesota's Twin Cities campus, east bank, will be the site for this year's state championship bike race Sunday, Aug. 8. The Campus Criterium (a bicycle road race on a short circuit with a hairpin turn) will offer spectators a close look at racers who can easily reach 30 mph.

The criterium has nine races, including a one-lap race for kids at 1:55 p.m. This race is free and open to any child with a bike and a helmet. Each child will receive a medal of completion at the finish line. The other races last 30 to 90 minutes each and consist of racers of various ages and abilities. According to race officials, the most exciting race will be the men's elite race at 2:25 p.m. In this event, racers can corner at 25 mph and reach 40 mph during the sprint to the finish line.

The university's program in physical therapy will sponsor a health fair near the start/finish line. Physical therapy students and faculty will discuss techniques for avoiding and treating conditions common among cyclists, including hand problems, abrasions, and pain and discomfort caused by bicycle seats. They will also demonstrate roadside stretching techniques that can enhance cycling performance and prevent injuries.

The race course is south of University Avenue, and the start/finish line is on Pleasant Street S.E. Parking will be free at the Fourth Street Ramp, located at 1625 Fourth St. (enter from 17th Avenue) and at Lot 33 (enter from Fifth Street).

The Campus Criterium is sponsored by the university's program in physical therapy, Bolder Options, Youth Cycling League, Minnesota Cycling Federation, Minnesota Cycling Team and Gopher Wheelmen. For complete information, including race schedule and course map, visit the Web site at <http://bikerace.ahc.umn.edu/> or call (612) 729-0702. □

fact sheet

University News Service
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Curt Carlson and the University of Minnesota

Graduated: 1937 with degree in economics.

First gift: \$500 in 1952, at age 37, for conference on "Savings & Inflation."

Total U of M donations: \$46,470,000 through 1999.

Major gifts : 1980--\$1 million to launch the Carlson Lecture Series, bringing 41 world-renowned speakers to Minnesota. It was the first \$1 million gift to the U.

- 1986--\$25 million to the Minnesota Campaign, with \$18 million for the Carlson School. The gift created 17 endowments for faculty chairs and professorships, and to benefit students. His \$22 million in gifts for endowed programs is now worth more than \$52 million.

- 1993--\$10 million for the new Carlson School building. (Carlson's leadership gift encouraged alumni and the business community to donate an additional \$10 million, and the governor and state legislature to commit the final \$25 million needed.)

- 1999 --\$10 million. \$8 million designated to the Carlson School and \$2 million to the Heritage Gallery in the new University Gateway Alumni and Visitors Center.

Carlson's giving has supported programs in the Carlson School, the College of Liberal Arts, the Humphrey Institute, the Medical School, Men's Athletics, the Law School, the Regents' Professors, and others.

University Honors: 1967--Outstanding Achievement Award "for lifetime achievement of an alumnus of the University."

- 1979--Regents Award "for building strength and excellence at the University of Minnesota."

- 1996 --Honorary Doctor of Laws "for contributions to society."

Service to the U: 1966-1999--Trustee, U of M Foundation, 1966-1999. Chair, 1975-1977.

- 1978-1999--Member, Carlson School of Management's Advisory Committee and Board of Overseers.

- 1985-1988--Chair, Minnesota Campaign. (Campaign generated \$365 million in 3 years, and was the most successful campaign at that time for a public university.)

- 1976-1980--Chair, Campaign for the Humphrey Institute.

Remarks about Curtis L. Carlson:

Gerald Fischer, University of Minnesota Foundation president and CEO:

"Curt's commitment went far beyond dollars. He helped build the University of Minnesota Foundation, provided wisdom and counsel to seven university presidents, and led the most successful fund-raising campaign for a public university at the time."

David Kidwell, dean of the U of M Carlson School of Management:

"At his core, Curt Carlson was the very definition of an entrepreneur. He loved the pay-off of a smart investment, and one of his greatest legacies will be his many contributions to the Carlson School, which transformed the school into a national leader."

U of M President Mark Yudof:

"Just as John Sargent Pillsbury is called the 'Father of the University,' Curt Carlson could be called the 'Modern Father' of this institution. His devotion to the university, and to all that it has meant to this state, never wavered. He was committed to making this the best institution that it could be."

Marilyn Carlson Nelson, chair and CEO of Carlson Companies:

"My father never lost his love for the University of Minnesota, which he always claimed to be the source of so much success and happiness in his life. We are thrilled, on this occasion of remembrance, to announce this last gift that he made to his beloved alma mater."

Barbara Gage, president of the Carlson Family Foundation:

"Throughout his life, my father credited the University of Minnesota with giving him the foundation for his success, and not least of all, as the place where he met my mother, his wife of over 60 years."

What: Obituary

Who: Ralph Comstock, Regents Professor Emeritus

Contact: Nancy Rowe, CBS communications, (612) 624-0774

RALPH COMSTOCK DIES; WAS FIRST GENETICS DEPARTMENT HEAD

MINNEAPOLIS / ST. PAUL--Ralph Comstock, Regents Professor Emeritus of Genetics and head of the Department of Genetics from 1965 to 1968, died Tuesday, July 6, in Sun City, Ariz. He was 86.

Comstock is internationally recognized for his pioneering work in quantitative genetics. He made substantial contributions to the study and use of artificial insemination and is credited as the co-creator of a breeding method used widely for both plants and animals. The method, reciprocal recurrent selection, enables breeders to develop the genetic structure of two populations to obtain the maximum-performance hybrid.

Comstock earned his bachelor's degree in agriculture (1934), master's degree in animal husbandry (1936) and doctorate in animal breeding (1938) from the University of Minnesota, where he was an instructor and assistant professor in animal husbandry from 1937 to 1943. He was an associate professor at North Carolina State College in Raleigh from 1943 to 1946, then served as animal husbandry department head at the Puerto Rico Agricultural Experiment Station for a year before returning to North Carolina State College as a professor. He joined the University of Minnesota in 1957 as a professor of animal husbandry in charge of animal breeding research.

With the formation of the College of Biological Sciences in 1965, Comstock was named head of the newly formed Department of Genetics. He held that position until 1968, when he was named a Regents Professor. He retired from the university in 1981.

Comstock won the Animal Genetics and Breeding Award from the American Society of Animal Science in 1966. He authored more than 90 major publications, including the 1996 book, "Quantitative Genetics With Special Reference to Plant and Animal Breeding."

He is survived by his wife, Helen; children Mary Sue and John; and two grandchildren.

The family suggests that memorials be sent to Amnesty International, U.S.A., 322 8th Ave, New York, NY 10001. □

news

What: Obituary**Who: James Rest, professor, Educational Psychology****Contacts: Muriel Bebeau, School of Dentistry, (612) 625-4633
Mike Nelson, News Service, (612) 626-7701****JAMES REST, EDUCATIONAL PSYCHOLOGY PROFESSOR, DIES**

MINNEAPOLIS / ST. PAUL--Educational Psychology professor James Rest, who retired from active teaching in the College of Education and Human Development in 1994 due to poor health but continued to work with colleagues and graduate students on his life-long passion—psychological research in morality—has died after a prolonged illness. He was 58.

Rest joined the faculty at the University of Minnesota in 1970, rising to the rank to full professor in 1977. He was highly regarded as a teacher and mentor and received numerous awards, including the University's Distinguished Teaching Award in 1993.

Rest, a Minneapolis resident who grew up in News Orleans, is best known for authoring the Defining Issues Test (DIT)—the most widely used measure of moral judgment development. In 1980, he developed his Four Component Model of Morality, in which he argued for four distinct reasons for moral failing. Over the last two decades much of his research focused on the development of assessment strategies and educational interventions to influence ethical development. In addition, he authored numerous books, including his most recent work—Postconventional Moral Thinking—and more than 100 articles on moral development.

In 1982, Rest and his colleague, Muriel Bebeau, a professor in the Department of Preventive Sciences, School of Dentistry, formed the Center for the Study of Ethical Development. The center, housed in the Department of Educational Psychology, maintains a scoring service for researchers using the DIT and serves as a dissemination center for research reports and educational and assessment products developed by center affiliates.

In 1988, Rest was diagnosed with Macado-Joseph's disease, a genetic disorder that also affected his mother, uncle and grandmother. The disorder, a degenerative neurological disease similar to Lou Gehrig's disease, is fatal.

"We'll miss Jim, a brilliant teacher and scholar," said Steven Yussen, dean of the College of Education and Human Development. "His seminal work as a scholar in the field of moral development continues to be unique because Jim combined ideas and insights from philosophy, psychology and education better than anyone else."

Rest is preceded in death by his parents, Heinrich and Eleanor. He is survived by his wife, Darcia Narvaez; sisters Margaret (Richard) Langford and Kathryn (Tom) Thoresen; brother, Gregory Rest; daughter, Susan; grandson, Jakob Asplund; and many nieces and nephews.

Visitation from 7:00 to 9:00 p.m. on Thursday, July 22, at the Roseville Memorial Chapel, 2245 N. Hamline Ave. in St. Paul; Service at 11:00 a.m. Friday, July 23, at St. Andrews Lutheran Church in Mahtomedi.

Memorials may be made to the Center for the Study of Ethical Development, c/o the University of Minnesota Foundation, 200 West Bank Office Building, 1300 S. 2nd St., Minneapolis, MN 55454. □

starwatch

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UNIVERSITY OF MINNESOTA AUGUST STARWATCH

by Deane Morrison

If skies are clear, we're in for one of the meatier meteor showers this year. Thanks to a new moon on the 11th, August's annual Perseid shower will hurl its fireballs through a moonless sky, limited only by clouds and the inevitable spread of morning twilight. The shower peaks the mornings of the 12th and 13th. For greatest viewing, take a reclining lawn chair or a blanket and lie down facing northeast. Then relax and watch as the atmosphere incinerates dust particles left behind by Comet Swift-Tuttle, which last swung around the sun in 1992. Perseid meteors are typically fast and bright, and often leave glowing trails.

Venus begins August low in the west at sunset. As the days go by, the planet loses brilliance as it drops toward the horizon. On the 20th, Venus hurtles past the sun and pops into the morning sky to begin another climb into predawn glory. Mercury joins our common sister planet late in the month, but will be too close to the sun for most viewers to see.

Mornings won't lack for charm, however. Jupiter scales the horizon in the wee hours, followed by Saturn, and both planets are well up in the south at dawn. Jupiter is much brighter, but Saturn gains luminosity as the month progresses.

All this leaves Mars as the only bright evening planet. Mars appears in the southwest and moves eastward toward Antares, the red heart of Scorpius. Meanwhile, Earth's orbital motion sweeps the stars westward behind Mars. Thanks to its eastward trek, the red planet will manage to hang onto its place for the rest of the year, setting between four and three hours after the sun.

The moon will be new the morning of the 11th, at which time many parts of Europe, the Middle East, Pakistan and India will see a total eclipse of the sun. The northeastern United States and nearby parts of Canada will see a partial eclipse. Here in the Midwest, we miss the show, but we do get a full moon at 6:48 p.m. CDT on the 26th. When the moon reaches fullness early on a

summer evening, it rises looking rosy and very round against a pale sky. August's full moon is variously called the green corn moon or the grain moon.

The Summer Triangle of Vega, Deneb and Altair floats high in the sky on August evenings. To the west, kite-shaped Bootes, the herdsman, seems to be dragged downward by the gorgeously bright Arcturus. Sagittarius, the archer, chases much larger Scorpius across the short stretch of southern sky they inhabit. If you're up an hour or so before dawn, you'll see not only Jupiter and Saturn but the winter constellations Taurus and Orion.

Late August and early September are the best times to see the faint zodiacal light in the morning. Produced by the reflections of sunlight off dust in the plane of the solar system, the zodiacal light appears as a rounded, diffuse cone of light extending up from the eastern horizon an hour or two before dawn. The light is easiest to find at this time of year because this is when the plane of dust is most steeply inclined to the horizon in the predawn hours. In late February the situation is exactly reversed, and the light is easiest to see in the evening.

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Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:

**Deane Morrison, University News Service, (612) 624-2346,
dmorris@mailbox.mail.umn.edu**

7/21/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

What: \$2.5 million Beckman Technology Development Grant**When: Next five years****Who: Stephen Ekker, (612) 626-4509
David Largaespada, (612) 626-4979
Scott McIvor, (612) 626-1497
Perry Hackett, (612) 624-6736****Contacts: Deane Morrison, University News Service,
dmorris@mailbox.mail.umn.edu, (612) 624-2346
Teri Charest, Academic Health Center,
tjohnson@mailbox.mail.umn.edu, (612) 624-4604****U OF MINNESOTA WINS ONE OF TWO GRANTS FROM BECKMAN FOUNDATION**

MINNEAPOLIS / ST. PAUL--The University of Minnesota is one of two universities in the nation to receive the first Arnold and Mabel Beckman Foundation Technology Development Grant, which will provide up to \$2.5 million over the next five years for the development of "Sleeping Beauty," a novel system for transferring genes into vertebrate cells. The university, along with the University of Texas at Austin, was selected from more than 90 applicant institutions, each of which was permitted to submit only one project proposal.

Sleeping Beauty is basically a strand of DNA that, under the direction of an enzyme (called the Sleeping Beauty transposase), is very good at inserting itself into chromosomes. By attaching other genes to Sleeping Beauty, scientists can use it to ferry those genes into the nuclei of cells and from there into chromosomes. Its name comes from its origin as an obsolete gene in fish that was "awakened" and modified to work as a transfer agent of genes. That work was done by Perry Hackett, professor of genetics, cell biology and development at the university, who is a co-investigator on the grant. Other co-investigators, all in the same department, are assistant professor David Largaespada and professor Scott McIvor. The principal investigator is assistant professor Stephen Ekker.

"Right now, Sleeping Beauty is like the Model T of gene transfer systems," said Ekker. "We will use the grant funds to improve the system so that it transfers genes more efficiently. After five years, we hope to have the Ferrari of gene transfer."

Ekker plans to optimize Sleeping Beauty as an agent of gene transfer in fish, with a goal of identifying the functions of genes whose functions are currently unknown. In those experiments,

Sleeping Beauty would insert itself into working genes, disabling them. By observing what structures or functions are impaired as a result, Ekker could identify the function of the genes. For example, if Sleeping Beauty were put into fish eggs and those eggs grew into fish that had tiny eyes, then a gene for eye structure would have been found. Since the basic genes of fish and humans are similar, this work is expected to help identify genes that guide human development and whose loss or malfunction can cause birth defects.

Largaespada focuses on using Sleeping Beauty to identify genes associated with cancer, particularly genes necessary to prevent cancer. Working with mice, he hopes to find genes that, when disabled by Sleeping Beauty, result in tumors. By finding the place Sleeping Beauty has inserted itself into a mouse chromosome he can then localize the gene. Again, the similarity of mouse and human genes will make this work applicable to humans. If, say, a gene whose disablement is associated with a colon cancer can be found, then therapies could be directed at getting that gene working again.

McIvor will concentrate on using Sleeping Beauty for gene therapy. Using mice as a model, he will work on ways to precisely determine the locations on chromosomes where Sleeping Beauty inserts itself, and in what quantities. For example, suppose a gene to counteract a genetic defect could be transported into human cells by Sleeping Beauty. Before such a system could be used on patients, one would have to make sure the gene was being delivered to a chromosomal location where it could stay active and that enough cells were receiving the therapy for it to make a difference to the patient's whole body.

Hackett will work on getting Sleeping Beauty to work better as a whole. Sleeping Beauty is essentially a gene for a "molecular scissors"--an enzyme that snips the Sleeping Beauty gene out of a chromosome and splices it into another one. The bulk of the Beckman grant will be used to improve the enzyme and the gene so that this cutting and splicing will work better. □

What: New dean of College of Agricultural, Food, and Environmental Sciences and vice president for Agricultural Policy

Who: Charles Muscoplat, (612) 590-0981

Contact: Mike Nelson, News Service, (612) 626-7701

FORMER VP OF MGI PHARMA INC. TO HEAD COLLEGE

MINNEAPOLIS/ST. PAUL--Charles Muscoplat, vice president for medical affairs at MGI PHARMA INC., has been named vice president for agricultural policy, dean of the College of Agricultural, Food, and Environmental Sciences and director of the Minnesota Agricultural Experiment Station. Pending approval by the university's board of regents, Muscoplat will assume his duties in September.

As vice president and the college's chief academic and administrative officer, Muscoplat will be responsible for the college's teaching, research and outreach programs and for managing issues related to Minnesota and its national and international roles in global agricultural systems. Muscoplat will also hold a tenured professorship in the department of animal science.

Muscoplat is a widely recognized scientist and leader in biotechnology and its application to human, plant and animal improvement. He has extensive expertise in academia, basic and applied research, teaching, business, technology transfer, administration, FDA regulatory affairs, public service in agriculture and public policy development. He helped start one of the nation's first agricultural biotechnology companies, developed the nation's first biotechnology animal health product (Genecol 99) and played a key role in the development of the first U.S. biotechnology plant product—herbicide-tolerant corn.

"Dr. Muscoplat is an outstanding administrator and scholar," said Robert Bruininks, executive vice president and provost. "His knowledge of life science industries and technology commercialization will enhance public-private partnerships and the university's commitment to modern food and agricultural sciences, environmental issues and biotechnology."

Added university President Mark Yudof, "Dr. Muscoplat combines the talents and perspectives of a first-rate scientist, academician, businessperson, manager and advocate for agriculture. I believe his appointment as dean and vice president sends a strong signal that the University of Minnesota is committed to the agriculture community, to out reach to support farmers and to technological innovation. I also believe he will work well with students, faculty and alumni and that he will serve as a strong voice for agriculture in my administration."

A native of St. Paul, Minn., Muscoplat received a bachelor's degree in chemistry and a doctorate in veterinary microbiology from the University of Minnesota. He served as a faculty member in veterinary medicine at the university from 1976 to 1983. He has taught courses in immunology, clinical immunology and business, and has published more than 130 peer-reviewed research publications. Muscoplat also serves on the board of directors of the Minnesota Academy of Science.

Muscoplat has also participated in several national and international initiatives, government advisory bodies and policy forums, including the National Academy of Sciences/National Research Council's Board on Agriculture, Board on Science and Technology for International Development, the Planning Group for National Strategy for Biotechnology and the U.S.-Indonesia Agricultural Biotechnology Workshop. He has also served as a scientific advisor for the State Department and the U.S. Agency for International Development. □

Embargoed by Science till 1 p.m. CDT Thursday, July 29.

What: New process to produce ethylene
Who: Ashish Bodke, (408) 971-7476
Lanny Schmidt, (612) 625-9391
Where: Science, July 30 issue
Contact: Deane Morrison, University News Service,
dmorris@mailbox.mail.umn.edu, (612) 624-2346

U OF MINNESOTA FINDS NEW WAY TO PRODUCE ETHYLENE; PROCESS COULD SAVE BILLIONS IN CHEMICAL PRODUCTION COSTS

MINNEAPOLIS / ST. PAUL--A new way to produce ethylene--the raw material of ethylene glycol (antifreeze), polyethylene (plastic), polystyrene (packaging) and polyester fabrics--has been developed by researchers at the University of Minnesota. The method promises to greatly lessen the cost and reduce the size of facilities that produce ethylene, the major intermediate in the chemical industry with an annual U.S. production of 50 billion pounds, worth more than \$10 billion. The method is described in the July 30 issue of Science.

Currently, most ethylene is made in a process called steam cracking, which requires a large input of heat and 300-foot reactor tubes. The process produces large amounts of coke, which must be regularly burned away. The new process, called partial oxidation, works as efficiently, produces no coke and does its job in a catalytic reactor tube less than an inch long.

"This development is important because steam cracking has a lot of problems that are tolerated by industry because the process works so well," said Ashish Bodke, first author of the study. "The process we have come up with is at least as good as steam cracking and has eliminated most of the problems."

The work began at the university about seven years ago, in the laboratory of Lanny Schmidt, a professor of chemical engineering and materials science.

"Our process could save billions of dollars a year if it's adopted by industry," Schmidt said. "And the capital investment would be much smaller."

Ethylene is produced from ethane, a naturally occurring hydrocarbon. In steam cracking, ethane is heated to 800 degrees C, and the conversion to ethylene takes about one second. About 60 percent of the

ethane is converted to something; about 85 percent of that becomes ethylene. Besides ethylene and coke, steam cracking produces oxides of nitrogen (NO_x) and carbon dioxide because the process requires a large furnace. NO_x is a precursor of acid rain, and carbon dioxide is a major greenhouse gas.

Partial oxidation produces slightly better conversion of ethane to ethylene. The process harnesses the heat generated by the reaction of hydrogen and oxygen at a temperature of 950 degrees C--a situation that normally results in the explosive burning of hydrogen to form water. But a platinum-tin catalyst stops the reaction before the point of explosion and uses the heat it generates to add hydrogen to ethane, producing ethylene. The reaction takes only a millisecond and produces hydrogen as a byproduct. The heat and hydrogen generated by the process can also be recycled to fuel the next cycle of production, Bodke and Schmidt said.

The key to the process lies in the platinum-tin catalyst, which is made by applying solutions of platinum and tin to a ceramic support disk. The disk is placed firmly in the reactor tube, and the raw materials of the process are simply passed through the tube. The laboratory tubes are 18 millimeters in diameter and produce 30 pounds of ethylene a day.

"A major feature of this process is that it occurs about a thousand times faster than steam cracking," said Schmidt. "It should therefore require a thousand times smaller equipment and correspondingly lower capital costs to build facilities. A four-foot-diameter reactor should produce 100 tons of ethylene per day under the conditions of our experiment, and it may be possible to push this to a thousand tons per day."

The work was supported by the National Science Foundation and the Department of Energy. □

What: U of M President Yudof to visit Redwood Falls' Farmfest
When: Tuesday, Aug. 3
Where: Redwood Falls
Contacts: Kent Thiesse, Farmfest forum coordinator, (651) 224-3344
Bob San, University News Service, (612) 624-4082

U OF M PRESIDENT MARK YUDOF TO VISIT REDWOOD FALLS' FARMFEST

MINNEAPOLIS /ST. PAUL--University of Minnesota President Mark Yudof will meet with business and farm leaders and alumni when he visits Farmfest in Redwood Falls Tuesday, Aug. 3.

Yudof, the 14th president of the university, has visited more than 90 Minnesota cities since taking office in July 1997. In his visit to Farmfest, Yudof will highlight the university's importance to agriculture in the state, give an update on general university issues and encourage the business community and alumni to pursue advocacy efforts.

Highlights of Yudof's itinerary:

- Noon to 1 p.m.--Lunch with Redwood Falls and Morgan community leaders, Valley Supper Club.
- 1:45 p.m.--Signing ceremony of University of Minnesota, Crookston-Southwest State University Partnership Agreement at Valley Supper Club.
- 2 to 3 p.m.--Tour University of Minnesota exhibits and plots at Farmfest.
- 3:15 to 3:30 p.m.--Media availability at U of M tent at Farmfest.
- 4 to 5 p.m.--Alumni reception at Jackpot Junction Casino.
- 5:30 to 6:30 p.m.--Reception with Farmfest exhibitors at Jackpot Junction Casino. □

What: Washington Avenue lane closure at U of M
When: Tuesday, August 3
Where: Washington Avenue between Church Street S.E. and Union Street S.E.
Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu, (612) 624-8038

ONE EASTBOUND LANE OF WASHINGTON AVENUE TO CLOSE AT U OF M

MINNEAPOLIS/ST. PAUL--One lane of eastbound Washington Avenue between Church Street S.E. and Union Street S.E. on the University of Minnesota's east bank will be closed to facilitate the demolition of three university buildings from Tuesday, Aug. 3, through Friday, Sept. 3. Motorists traveling east across the Washington Avenue Bridge should expect delays. The road will be open the weekend of Sept. 4 and 5, when students move into residence halls, and Tuesday, Sept. 7, the first day of fall semester.

The buildings, Millard Hall, Lyon Lab and Owre Hall, will be demolished to make way for the new Molecular Cellular Biology Building, scheduled for completion in winter 2002.

Long-term street closings are not anticipated during the many on-going construction projects at the university, and major parking facilities are not affected. A construction information hotline, (612) 626-7777, provides up-to-date information 24 hours a day, and a Web site is available at www.umn.edu/construction. Many departments at the university will be relocated as a result of campus construction. Visitors to campus are encouraged to confirm the location of the department they seek by calling University Information at (612) 625-5000. □

What: U and Swedish scientists exchange medical information
When: Aug. 2-3 in Minneapolis, Aug. 5-6 in Nisswa, Minn.
Who: Steven Juhn, M.D., (612) 626-9879
 George Adams, M.D., (612) 625-2410
Contacts: Teri Charest, Academic Health Center, (612) 624-4604
 Carolyn Rask, Otolaryngology Public Affairs, (612) 625-8437

U AND SWEDES EXCHANGE IDEAS ON TREATING HEAD AND NECK DISORDERS

MINNEAPOLIS / ST. PAUL--A Swedish delegation from the Karolinska Institute in Stockholm will meet with investigators from the University of Minnesota as part of the Curtis L. Carlson Visiting Scientist Exchange Program August 2, 3, 5 and 6 in Minnesota.

This is the second such conference sponsored by the Carlson program; in the first, in 1997, a delegation from the university traveled to Stockholm. Scientists and physicians from both institutions exchanged information on the diagnosis and treatment of inner and middle ear diseases, as well as head and neck cancer. This year they will focus on some of the same topics, including middle ear infection, chronic sinusitis and cancer.

For the past 20 years the university has led the world's largest investigation into middle ear infection, the most common reason American children under five see a physician. Physicians are increasingly concerned about the organisms that cause these infections becoming resistant to the standard treatments. Swedish and Finnish delegates will share their scientific expertise on those topics.

Otolaryngology professor Dr. Steven Juhn conceived the scientific exchange program. He and former Gov. Wendell Anderson discussed establishing a formal program after the two met by chance in Stockholm in 1987. Bengt Samuelsson, a 1982 Nobel laureate and president of the Karolinska Institute, endorsed the idea. After hearing of the idea at the American Swedish Institute in Minneapolis, Curt Carlson donated \$500,000. By 1989 the Carlson family and the university had planted a \$1 million seed in an endowment to begin the exchange.

In addition to the biannual conferences, the fund has supported university scientists who travel to the Karolinska Institute to conduct research. The exchanges began in 1990.

For a complete list of the delegation's activities, contact Teri Charest at (612) 624-4604 or tjohnson@mailbox.mail.umn.edu. □

What: Kids can maintain healthy eating, physical activity habits
Who: Leslie Lytle, Ph.D., (612) 626-8372
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF M STUDY SHOWS KIDS CAN MAINTAIN IMPROVED DIET, PHYSICAL ACTIVITY

MINNEAPOLIS / ST. PAUL--Behaviors and lessons on the benefits of heart-healthy eating and vigorous physical activities begun during the elementary school years persist into early adolescence, according to a new University of Minnesota study. This study is a follow-up to CATCH (Child and Adolescent Trial for Cardiovascular Health), the largest school-based health promotion study ever done in the United States.

"This follow-up study shows that a comprehensive school health promotion conducted in the elementary years can have lasting effects on a child's eating and physical activity habits," said Leslie Lytle, associate professor of epidemiology and principal investigator of the study.

CATCH took place between 1991 and 1994 in California, Louisiana, Minnesota and Texas. It involved close to 5,000 pupils in grades three, four and five at nearly 100 ethnically and racially diverse elementary schools. It sought to determine if classroom curricula, food service modifications, physical education changes and family reinforcement would reduce cardiovascular disease risk factors later in life.

The follow-up study (1995-98) assessed differences in grades six, seven and eight in diet, physical activity, and related health indicators among 3,714 (73 percent) of the initial CATCH participants. The researchers found that the students who received the health promotion intervention in grades three through five maintained a diet significantly lower in total fat and saturated fat and continued to pursue more vigorous physical activity compared to the students in the control groups. These results suggest that schools can be an important place to help youth establish habits that may help prevent the early onset of cardiovascular disease, Lytle said. □

What: First International Conference on Adoption Research
When: Tuesday-Saturday, August 10-14
Where: Radisson Metrodome Hotel, 615 Washington Ave. S.E., Minneapolis
Who: Harold Grotevant, dept. of family social science, (612) 624-3756
Contact: Deane Morrison, University News Service,
dmorris@mailbox.mail.umn.edu, (612) 624-2346

U OF M'S MINNESOTA TEXAS ADOPTION RESEARCH PROJECT TO HOST INTERNATIONAL CONFERENCE

MINNEAPOLIS / ST. PAUL--The University of Minnesota's Minnesota/Texas Adoption Research Project will host the first International Conference on Adoption Research Tuesday, August 10, through Saturday, August 14, at the Radisson Metrodome Hotel, 615 Washington Ave. S.E., Minneapolis.

The conference will bring together researchers from many different disciplines to discuss and review the latest research in the adoption field. Harold Grotevant, conference co-organizer and professor in the university's department of family social science, said the conference will be a ground-breaking event.

"We hope this conference will assist us in enhancing the quality of research and theory in the area of adoption and contribute to a more solid research-based policy and practice," said Grotevant.

Topics to be discussed at the conference include developmental issues in adoption across the life span; openness in adoption; international adoption; pre-adoption concerns, adjustment issues and identity; transracial adoption and racial identity; and grief, loss, and reunion: birth parent perspectives.

Conferees are expected from several countries, including Australia, Spain, Belgium, the Netherlands and New Zealand. □

What: U of M McNair Scholars to present research
When: Tuesday, Aug. 10, 2 to 4 p.m.
Where: Weisman Art Museum
Contact: Sharon Schelske, McNair Program, (612) 625-0772; Bob San, University News Service, bsan@mailbox.mail.umn.edu, (612) 624-4082

MCNAIR SCHOLARS TO PRESENT RESEARCH AT U OF M TUESDAY, AUG. 10

MINNEAPOLIS /ST. PAUL--Research findings on topics such as culture among Hmong Americans, Ojibwe language and biological control of corn pests will be presented by the University of Minnesota's Summer 1999 McNair Scholars between 2 and 4 p.m. Tuesday, Aug. 10, in the Shepherd Room of the university's Weisman Art Museum.

The annual poster presentation will showcase the work of 23 talented, minority, low-income or disabled students from various institutions who have been studying at the university this summer under the guidance of faculty mentors.

The McNair Scholars Program, named after the African American astronaut who died in the 1986 Challenger space shuttle explosion, is funded by the U.S. Department of Education and operated by the university's General College. It aims to encourage and assist minority, disabled or low-income undergraduates to enroll in master's degree programs or professional schools. Besides conducting hands-on research, participants have been attending motivational workshops, Graduate Record Exam prep classes and research writing workshops. Since 1991, the U's McNair Program has sponsored 152 students. Of those, 70 percent have been admitted to graduate school and 60 percent have either graduated or are currently enrolled.

Some of the students and projects:

- Mary Xiong, a junior history major at Carleton College, on dress, identity and cultural heritage among Hmong Americans.
- Vince Kurta, a junior American Indian studies major at the University of Minnesota-Twin Cities, on speakers of Ojibwe in the community of Red Cliff in northern Wisconsin.
- Markeeta Keyes, a senior biology and physiology major at the University of Minnesota-Twin Cities, on biological control of a corn pest, the European Corn Borer.
- La'Crystal Cook, a junior English major at the University of California at Berkeley, on images of African-American women in hip-hop music.
- Randon Gardley, a senior at the University of Minnesota-Morris, on using basketball as a tool for crime prevention. □

Embargoed by Science until 1 p.m. CDT Thursday, Aug. 12.

What: Earth's crust may produce methane
Who: Michael Berndt, geology and geophysics dept., (612) 626-0762
Contact: Deane Morrison, University News Service,
dmorris@mailbox.mail.umn.edu, (612) 624-2346

MAKING METHANE: A NEW PATHWAY, SAY U OF MINNESOTA, OAK RIDGE RESEARCHERS

MINNEAPOLIS / ST. PAUL--Given enough heat and pressure, a naturally occurring iron-nickel alloy can produce methane that looks, for all practical purposes, as if it was produced from organic matter, according to work by researchers at the University of Minnesota and Oak Ridge National Laboratory. If the process, which the researchers conducted in the lab, should occur in Earth's crust, it could mean a source for methane other than digestion or decomposition of dead organic matter. The work is published in the Aug. 13 issue of Science.

The researchers call their process abiogenic--i.e., not connected with biological processes--methane formation. Most methane is thought to be produced when dead organic matter decays through the action of microbes or by heat-induced decomposition. Other means to produce methane in the laboratory exist, but Michael Berndt, a senior research associate in geology and geophysics at the University of Minnesota and coauthor of the Science paper, said he believes the newly discovered process could be an important means of generating methane in nature--specifically, under conditions of heat and pressure found deep in the Earth's oceanic crust.

"We're making no guesses as to the percentage of methane that may come from this source," said Berndt. "But our study shows that some methane thought to have been produced by bacteria may actually have been produced abiogenically."

Developed by Berndt and Juske Horita of the chemical and analytical sciences division of Oak Ridge National Laboratory, the new process produces methane from bicarbonate ions and hydrogen at temperatures up to 400 degrees C. The catalyst for the conversion was an iron-nickel alloy found in certain parts of the oceanic crust. Berndt said the methane produced was chemically difficult to distinguish from organically produced methane.

As for its significance, he said he would leave that to other scientists.

"Knowing where methane comes from puts us in a better position to find it," he said. "The one thing for sure is that methane can no longer be assumed to come solely from organic decay." □

media advisory

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What: Yudof to give media tour of U of M state fair building
When: 1 p.m. Wednesday, Aug. 25
Where: U of M Building, State Fairground, St. Paul
Contact: Nina Shepherd, publicity manager, (612) 624-1841

U OF M PRESIDENT YUDOF AND BABY COW TO HOST PREVIEW MEDIA TOUR OF NEW STATE FAIR BUILDING

University of Minnesota President Mark Yudof and a four-month-old calf from the university's College of Agricultural, Food and Environmental Sciences will escort reporters on a tour of the university's new Minnesota State Fair building at 1 p.m. Wednesday, August 25. The University of Minnesota building is located on Dan Patch Avenue, one-and-a-half blocks west of the fair's Snelling Avenue entrance.

The building, owned by the Minnesota State Fair and rented to the university, will feature exhibits from more than a dozen university colleges and an entertainment stage with continuously running programs on subjects ranging from gardening to brain surgery. This year marks the first time the university has had a major state fair presence under one roof.

University researchers and Goldy Gopher will also be on hand to help with exhibit demonstrations on everything from scientific breakthroughs to children's activities. Included in this year's displays are the 1999 award-winning, student-built solar car, medical researchers displaying a real human brain, a children's forest with nature activities, one-stop shopping for Golden Gopher sports gear and a live, interactive telemedicine video line staffed by university doctors.

The University of Minnesota building will be open regular state fair hours: 9 a.m. to 10 p.m. Thursday, Aug. 26, through Sunday, Sept. 5, and 9 a.m. to 8 p.m. Monday, Sept. 6. □



What: U of M opens new exhibition building at State Fair
When: Thursday, Aug. 26, through Monday, Sept. 6
Where: Dan Patch Avenue, State Fairgrounds, St. Paul
Contact: Nina Shepherd, publicity manager, (612) 624-1841

NEW U OF M STATE FAIR BUILDING FEATURES LIVE ENTERTAINMENT, GOPHER SPORTS, BREAKTHROUGH RESEARCH

For the first time, Minnesota State Fair visitors can visit with University of Minnesota experts, Goldy Gopher and Golden Gopher sports personalities under one roof at the university's new state fair building.

The building, located on Dan Patch Avenue one-and-a-half blocks west of the fair's Snelling Avenue entrance, will feature exhibits for all ages including the 1999 award-winning, student-built solar car, medical researchers displaying a real human brain, a children's forest with nature activities and a live, interactive telemedicine video line staffed by university doctors.

The building will also feature a stage of continuously running live entertainment--ranging from children's storytelling by university President Mark Yudof to discussions with nationally known researchers to interviews with Gopher coaches and athletes. A complete schedule of stage performances is available on the university's state fair Web site at www.umn.edu/statefair99.

The University of Minnesota building will be open regular state fair hours: 9 a.m. to 10 p.m. Thursday, Aug. 26, through Sunday, Sept. 5, and 9 a.m. to 8 p.m. Monday, Sept. 6. □

What: U of M state fair Web site features live experts
When: Thursday, Aug. 26, through Monday, Sept. 6
Where: Web site: www.umn.edu/statefair99
Contacts: Nina Shepherd, publicity manager, (612) 624-1841
Josh Spotts, Web designer, (612) 624-1663

**FROM GARDENING TO GOPHER HOCKEY:
HEAR U OF M EXPERTS LIVE FROM STATE FAIR ON WEB SITE**

During the Minnesota State Fair, tune into the University of Minnesota's state fair Web site at www.umn.edu/statefair99 to hear live broadcasts of interviews with dozens of university experts during their live performances on the university's state fair stage.

The stage, a highlight of the university's new state fair building, will feature appearances by university experts and personalities including university President Mark Yudof, Gopher coaches and athletes and researchers on a range of topics from gardening to real estate to fashion design. Host and radio personality J.B. Eckert will be master of ceremonies and take questions from state fairgoers. A complete list of experts and their appearance schedules can be found on the Web site.

Anyone with a computer and an Internet connection can listen to the live broadcasts--or Webcasts--through a technology called audio streaming. Details on how to access the Webcast can be found on the site.

The University of Minnesota's state fair building and stage are located one-and-a-half blocks west of the fair's Snelling Avenue entrance on Dan Patch Avenue. The building will be open regular state fair hours: 9 a.m. to 10 p.m. Thursday, Aug. 26, through Sunday, Sept. 5, and 9 a. m. to 8 p.m. Monday, Sept. 6. □

Aylward will be available for interviews during the first week of September.

What: U names new chief of police
Who: George Aylward (pronounced Ail-ward)
When: Thursday, August 19
Contacts: Mark Cox, interim assistant vice president,
campus health and safety, (612) 625-3828
Mike Nelson, University News Service, (612) 626-7701

GEORGE AYLWARD REPLACES FORMER CHIEF JOY RIKALA

MINNEAPOLIS / ST. PAUL--George Aylward, program manager for the International Criminal Investigative Training Assistance Program of the U. S. Department of Justice, has been named chief of police at the University of Minnesota. Aylward, who replaces former police chief Joy Rikala, will assume his duties Aug. 30.

As program manager for the Justice Department, Aylward supervised and coordinated the reorganization and training of police departments and justice systems in developing countries—most recently Albania and Liberia. He has served as chief of police in Middletown, Conn., and Wilkes-Barre Township, Pa., and served for 20 years as a police officer and detective lieutenant in the New York City Police Department. He has a master's degree in liberal studies from Wesleyan University, a bachelor's degree in behavioral science from the New York Institute of Technology and is a graduate of the FBI National Academy.

"We are pleased that George Aylward will serve as our new chief of police," said Mark Cox, interim assistant vice president, department of campus health and safety. "He is an experienced, highly regarded leader whose expertise and experience will undoubtedly benefit the police department and the entire university community."

The University of Minnesota Police Department, located at 511 Washington Ave. S.E. on the university's east bank campus/Minneapolis, has 43 sworn officers, parking enforcement monitors, student security monitors, support staff and emergency dispatchers. □

What: Memorial Stadium Arch to be completed at Gateway Building
When: Noon Monday, August 23
Where: Gateway Building, Oak and Washington, University of Minnesota
Contact: Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu, (612) 624-8038

HISTORIC MEMORIAL ARCH RESTORATION COMPLETE AT UNIVERSITY OF MINNESOTA

The renovation of the University of Minnesota's historic Memorial Stadium Arch will be completed at noon Monday, August 23, with a topping-off ceremony at the Gateway Building, located at the corner of Oak and Washington streets S.E. in Minneapolis.

Built in 1924 as a memorial to those who had served in WWI, Memorial Stadium served as a stirring entry point for the university's Golden Gopher Marching Band. At its apex stood the arch, 50 feet tall and 30 feet wide. Members of the class of 1942 provided more than \$215,000 to restore the arch for the Gateway Building. During the ceremony the final bricks from the original stadium will be placed above the arch.

Speakers include:

- Larry Laukka, chair, Gateway Corp. He will give a brief overview of the Gateway project and the historical significance of the Memorial Arch.
- Andrea Hjelm, a member of the class of 1965, was a cheerleader during Gopher football glory years and will relay her fond memories of Memorial Stadium.
- Tom Swain and Cal Smith, both members of the Class of 1942, will describe the class's motivation for preserving and storing the arch and facade back in 1992 when the stadium was demolished.

The arch will serve as the entrance to the Heritage Gallery, which highlights the legacy and achievements of the university and its people. The Gateway will house the Minnesota Medical Foundation, the University of Minnesota Alumni Association and the University of Minnesota Foundation. A grand opening is planned for mid-February 2000. □

What: News conference on Regional Sustainable Development Partnerships
When: 11 a.m. Thursday, Aug. 26
Where: Sahlstrom Conference Center, UM-Crookston
Contacts: Jeanne Markell, University of Minnesota Extension Service, (612) 624-5360
Barbara Weiler, U of M, Crookston, (218) 281-8435
Deane Morrison, University News Service, (612) 624-2346

U OF M LAUNCHES REGIONAL SUSTAINABLE DEVELOPMENT PARTNERSHIPS IN NORTHWESTERN AND WEST CENTRAL MINNESOTA

MINNEAPOLIS / ST. PAUL--The University of Minnesota will announce two new legislatively funded Regional Sustainable Development Partnerships, for west central and northwestern Minnesota, at an 11 a.m. news conference Thursday, Aug. 26, in the Sahlstrom Conference Center on the Crookston campus. The announcement will be made by Robert Bruininks, the university's executive vice president and provost, and Paul Brutlag, chair of the Regional Partnerships Statewide Coordinating Committee.

Regional partnerships consist of teams of citizens and university faculty who work to identify issues relating to the economic and environmental sustainability of Minnesota communities in which natural resource-based industries play a key role. The partnerships are designed to encourage citizen leadership in shaping the university's research, education and outreach priorities in the regions. Bruininks has described the initiative as one means of "reinventing the land-grant mission" for the 21st century.

The two new partnerships will be funded from a legislative appropriation passed during the 1999 session. In 1997 the university received funds from the Minnesota Legislature to establish Regional Sustainable Development Partnerships in southeastern, northeastern and central Minnesota.

The regional teams help develop and fund collaborative projects that address regional issues. Each region also provides leadership on at least one issue with statewide significance, such as equity financing options for farmers and small business owners, indicators to measure the sustainability of different businesses and regional food systems that link producers, processors and consumers. Partnerships are established through an open call for nominations of citizens and university faculty to serve on the regional team.

For more information about partnerships contact Steven Daley-Laursen, associate dean of the university's College of Natural Resources, (612) 624-9298; the Minnesota Institute for Sustainable Agriculture, (612) 625-8235; or Paul Brutlag at (218) 685-5400. □

media advisory

University News Service
6 Morrill Hall
100 Church St. SE
Minneapolis, MN 55455
612-624-5551

TOMORROW AT THE FAIR

An update on U of M people and events for THURSDAY, AUG. 26

- 3 p.m., U of M stage. U President Mark Yudof reads classic stories from the university's Kerlan Collection of Children's Literature.
- 10:30 a.m. to 11 a.m., Academic Health Center booth. Tim Knaeble, of Fairview-University Medical Center, will host a live interactive trivia game show for kids. Kids at the fair will be able to use the telemedicine video lines at the U of M Academic Health Center booth to play the game show, while Knaeble will be in studio on campus. Knaeble hosts a regular game show with children in the hospital, where the children receive prizes--as will the kids who participate at the fair. Call Knaeble at (612) 273-5689. He is looking into setting up a second day for the game show.
- Coach of the day: Dave Geatz, head coach, men's tennis, 6-7 p.m., U of M stage.

**Complete Schedule for U of M Stage on the Web at
<http://www1.umn.edu/statefair99/speaker.html>**

media advisory

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TOMORROW AT THE FAIR

An update on U of M people and events for FRIDAY, AUG. 27

- 10 a.m., U of M stage. Swine expert Gerald Shurson will bring a live piglet to his talk about the life and times of pigs, covering everything from whether they're basically clean or dirty (clean; they wallow to keep cool because they lack sweat glands) to how smart they are (smarter than almost any dog). Go ahead and ask him why the champion boar has such big testicles. It's not just chance; instead of using naturally produced chemicals to move sperm along the female reproductive tract, pigs rely on more mechanical means. A boar can deliver a pint into the uterus in one shot, enough to distend the uterus and cause it to contract in response, sending the payload to its rendezvous with the egg in the fallopian tubes. He'll also discuss boar tusks and demonstrate a piglet's needlelike teeth, which can be dangerous.
- 2 p.m., Academic Health Center booth. In a display of telemedicine, fairgoers can have their arms checked for skin cancer by U dermatologist Dr. Whitney Tope. Fairgoers will put their arms to a camera mounted on a computer monitor, and Tope will examine their skin from a location back on campus. A second monitor at the booth will show Tope as he performs the exams through a TV set. The concept is similar to teleconferencing.
- Coaches of the day (U of M stage): Martin Novak, head women's tennis coach, 3 p.m.; Phil Lundin, head men's track & field coach, 5 p.m.
- The U of M building is on Dan Patch Avenue, one and a half blocks west of the Snelling Avenue entrance.

Complete Schedule for U of M Stage on the Web at
<http://www1.umn.edu/statefair99/speaker.html>

**Embargoed by Proceedings of the National Academy of Sciences
until 4 p.m. CDT Monday, Aug. 30.**

What: Major stride in gene therapy
**Who: Clifford Steer, M.D., (215) 504-4444 August 27, (413) 625-6822
 August 28-30, (612) 625-8999 August 31**
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA WORK BRINGS HUMAN GENETIC REPAIR A STEP CLOSER

MINNEAPOLIS / ST. PAUL--Permanent cures for inherited diseases are one step closer, thanks to the first genetic correction in an animal that has led to permanent repair of a genetic disease. The successful mutation, engineered by scientists from the University of Minnesota, clears the way for human clinical trials to begin early next year. The work was done in collaboration with the Albert Einstein College of Medicine in New York and will be published in the Aug. 31 Proceedings of the National Academy of Sciences.

Working with lab rats afflicted with Crigler-Najjar syndrome, which is deadly in humans, the researchers stimulated the rat cells to fix their own defective genes and achieved a reversal of the syndrome. This genetic self-help significantly advances current gene therapies that leave the defective genes in the cell but inject new, "correct" genes on top of them, said study leader Dr. Clifford Steer.

"It's the difference between using spell check or just penciling in the correct spelling above the mistake," said Steer, a professor of medicine at the University of Minnesota. "It's less messy and more reliable. Genes injected under current methods don't always wind up in the right place, which leads to unexpected complications."

The researchers plan to begin the clinical study on humans next spring, pending approval from the Food and Drug Administration. If the clinical trial is successful, Steer says it will raise hope for genetic repair of many other diseases, including hemophilia, sickle cell anemia and cystic fibrosis.

Scientists estimate there are fewer than 500 cases of Crigler-Najjar syndrome worldwide. Because it is passed on genetically, it tends to be concentrated in homogenous populations, such as the Amish and Mennonite people of western Pennsylvania, who will be participating in Steer's clinical trials.

Victims of the condition suffer from jaundice due to a buildup of bilirubin, a toxic waste product created when the body destroys worn-out red blood cells. Excess bilirubin leads to brain damage and ultimately death. Normally it is broken down by an enzyme in the liver, but that enzyme is absent in Crigler-Najjar patients.

"The genetic code in their liver cells simply isn't programmed to make the enzyme," Steer said. "Our challenge is to find the exact nucleotide containing the defective programming and trick it into mutating into the correct program or gene sequence."

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They were able to do just that with the lab rats. Such rewriting of genetic code, called "site-directed gene repair," is a feat that experts as recently as 18 months ago had predicted was at least a decade away. "We did it nine years early," Steer said.

It was accomplished through chimeraplasty, a method in which a manufactured blend of DNA and RNA is enclosed in a fat globule and injected intravenously. The DNA/RNA blend is identical to the rat's own gene sequence except for the mutation that causes the problem. The chimeraplast attaches to the rat's DNA and activates a system normally present in cells to correct mistakes in DNA. The repair system is tricked into using the corrected version of the DNA rather than the original, defective version.

"The DNA repair has been specific, efficient and stable for up to two years, and is associated with greatly reduced levels of potentially dangerous bilirubin," said Steer. "This is a powerful technique that offers great potential for future treatment of numerous genetic diseases in humans."

Steer's collaborators include Betsy Kren and Paramita Bandyopadhyay at the University of Minnesota and Bhupesh Parashar, Namita Roy-Chowdhury and Jayanta Roy-Chowdhury of Albert Einstein College of Medicine. □

What: 4-H memorial funds

**Contacts: Dale Blyth, 4-H Center for Youth Development, (651) 643-6395
Jim Thielman, University News Service, (612) 624-0214**

MEMORIALS ESTABLISHED FOR THREE 4-H STUDENTS WHO DIED IN CRASH

Memorial funds have been established for the three 4-H students who lost their lives in a four-vehicle crash Friday night, Aug. 27, on Interstate 694 at Highway 10. The teens were among the 8,000 Minnesota 4-H students who exhibit and participate during the Minnesota State Fair.

Donations to establish a 4-H scholarship fund on behalf of Jory Anderson, 18, of Alberta, and Mackenzie Hauglund, 14, of Donnelly, can be sent to the Stevens County Extension Office, 208 Atlantic Ave., Morris, Minn., 56267-1321.

Donations to establish a memorial fund in the names of all three, including Shaunalea Huwe (Shawna-lee Hugh-vee), 17, of New York Mills, can also be sent to the Minnesota 4-H Foundation at 340 Coffey Hall, University of Minnesota, 1420 Eckles Ave., St. Paul, Minn., 55108. A fourth 4-H student, Bryce Baker, 18, of Cyrus in Stevens County, survived the crash. □

What: New heat treatment used for liver cancer
Who: Timothy Sielaff, M.D., Ph.D., (612) 625-7992
David Hunter, M.D., (612) 273-2826
Contacts: Amy Johnson, Academic Health Center, (612) 625-2640
Coleen Southwell, Cancer Center, (612) 626-1107

U OF M PHYSICIANS USE HEATING DEVICE TO TREAT LIVER CANCER

MINNEAPOLIS / ST. PAUL--Physicians at the University of Minnesota are using a new minimally invasive heating device called radiofrequency ablation to treat liver cancer.

The device delivers radio-frequency energy through a special probe designed to heat tumor tissues. It is intended for managing hepatoma, a primary liver cell cancer, and cancer deposits that have spread to the liver from the colon. The device, developed by RITA Medical Systems in Mountain View, Calif., was recently approved by the Food and Drug Administration.

According to the American Cancer Society, colon cancer is the second most common cause of cancer death in the country and often spreads to the liver. Hepatoma is also on the rise because of the increase of hepatitis C-associated liver disease, according to Dr. Timothy Sielaff, an assistant professor of surgery and member of the University of Minnesota Cancer Center.

"Although both types of liver tumors are best treated by surgical removal, many patients are not candidates," said Sielaff. "This new therapy opens new options for the treatment of these difficult problems." He and Dr. David Hunter, both part of the University of Minnesota Physicians, a multispecialty group practice, have used this procedure to treat 15 patients since 1998.

The procedure can be done on an outpatient basis. However, patients with several tumors requiring treatment are generally admitted overnight. Here's how it works: First, the needle-like device and a video telescope are inserted through a small incision in the abdominal wall. An umbrella-like array of wires from the device is passed into the tumor. The wires produce electrical energy that heats the tumor until the protein is permanently damaged and cell membranes are fused, which kills the cells.

"Our preliminary results are encouraging," said Hunter, a professor of radiology. "The procedure has been safe and effective in killing treated tumors smaller than five centimeters in diameter."

To learn more about this treatment call Sielaff at (612) 625-7992. The university is the only institute in the Twin Cities that performs the procedure.

The university's Cancer Center was designated a "comprehensive cancer center" by the National Cancer Institute in 1998. □

What: ElderLearning Institute Open House
When: Wednesday, Sept. 1, 12:30 to 2 p.m.
Where: Willey Hall Auditorium, West Bank campus
Contacts: Steve Benson, Executive Director, (612) 624-7847
Bob San, University News Service, bsan@mailbox.mail.umn.edu,
(612) 624-4082

U OF M ELDERLEARNING INSTITUTE TO HOST OPEN HOUSE SEPT. 1

MINNEAPOLIS /ST. PAUL--The University of Minnesota's ElderLearning Institute (ELI) will preview its fall programs at an open house from 12:30 to 2 p.m. Wednesday, Sept. 1, at the Willey Hall auditorium on the west bank campus.

ELI, a voluntary, noncredit education and service program for older adults that began four years ago, offers small group discussions, tours and special events throughout the year. This year, over 100 courses and programs are being offered. They include studies of the people and culture of the Yucatan, health and wellness, Scandinavian heritage, mapmakers, architectures of the Twin Cities and current issues. Last year about 500 seniors participated in the courses, many of which are taught by retired university professors.

Siobhan Cleary, host of Channel 2's Health Diary, will be the keynote speaker. The event is free, and people of retirement age are especially invited to attend. □

What: U names new associate vice president for facilities management

Who: Daniel Hambrock

Contacts: Eric Kruse, vice president, university services, (612) 625-6599
Mike Nelson, News Service, (612) 626-7701

NAVY VETERAN DANIEL HAMBROCK NAMED VP FOR FACILITIES MANAGEMENT

MINNEAPOLIS / ST. PAUL--Daniel Hambrock, a 20-year Navy veteran with extensive experience in facilities management, has been named associate vice president for facilities management at the University of Minnesota. He assumes his duties November 1.

Hambrock comes to the university after serving more than 20 years in the Civil Engineer Corps of the U. S. Navy. Most recently he was the deputy commander for operations at the Naval Facilities Engineering Command in Virginia. His experience includes directing the facilities construction and maintenance programs at three Navy bases.

"I'm very excited to have Dan on board," said Eric Kruse, vice president for university services. "Dan's naval experience, particularly his work delivering innovative services to a wide variety of customers, is an outstanding fit for a university setting."

The facilities management department at the university manages the maintenance and repair of more than 250 buildings and more than 1,000 acres of grounds on the Twin Cities campus. The department also manages new building construction and renovation. □

What: U of M gets financial aid to students despite 'glitch'

**Contacts: Craig Swan, vice provost for undergraduate education,
(612) 625-0051**

Jim Thielman, University News Service, (612) 624-0214

'CHECK'S IN THE MAIL' TO U OF M TO STUDENTS RECEIVING FINANCIAL AID

Reports about a computer "glitch" that left many University of Minnesota students believing they won't receive the funds they need to begin classes next Tuesday (Sept. 7) are not true, according to Bob Kvavik, university associate vice president.

"Contrary to what you may have heard or read, the students depending on financial aid are getting the money they need to start classes," Kvavik said. "We've been sending checks out to these students for the past few weeks."

The computer glitch responsible for the mix-up keeps the university from disbursing student financial aid funds in the usual manner, but students will still receive the money they need. Students who normally receive a credit balance refund check will still receive a check, although it will be in the form of an interest-free loan from the university. The loan will be automatically repaid when the university is able to access the students' financial aid funds from the federal government in mid-October. The approximate numbers of students who normally receive credit balance checks and who are receiving the no-interest loans from the university are:

Twin Cities Campus : 8,000 students out of 37,000 who receive financial aid

Duluth Campus: 1,500 students out 5,500 who receive financial aid

Morris Campus: 1,100 students out of 1,700 who receive financial aid

Crookston Campus: 170 students out of 1,200 who receive financial aid

In most cases, however, a student's financial aid is less than the amount owed for tuition, fees, and university residence halls. These students will have until November to pay the balance due.

For more information contact Craig Swan, vice provost for undergraduate education, at (612) 625-0051 or swan@tc.umn.edu. ☐

www.umn.edu/urelate/news.html 8/31/99

What: Board of Regents September agenda
When: Thursday and Friday, September 9-10
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contacts: Mike Nelson, mnelson@mailbox.mail.umn.edu, (612) 626-7701
Amy Phenix, phenix@mailbox.mail.umn.edu, (612) 625-8510

U OF M REGENTS TO WELCOME BEST ACADEMICALLY PREPARED CLASS IN U HISTORY; FRESHMAN APPLICATIONS UP MORE THAN 20 PERCENT

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents will convene during fall semester amidst the 1999 freshman class of 2003--the best academically prepared class in the university's history--when they meet Thursday and Friday, Sept. 9 and 10, in Room 238 Morrill Hall on the Twin Cities campus/Minneapolis.

Fall semester 1999 also marks the largest percentage of freshman living in university housing in school history, the largest single-year increase in freshman-to-sophomore retention rates since 1990 and increases in minority enrollment.

In addition, according to the Office of Admissions, since 1997 freshman applications from Minnesota residents have increased more than 30 percent and overall freshman applications to the university have increased 21 percent.

In other matters, the board will take action on the schematic plans and infrastructure improvements for Coffman Union and the River Bend Commons (formerly South Mall) area, discuss the 2000 state capital request and hear a report on student survey results.

Here's a sample of committee agenda items.

Thursday, September 9

- 8 a.m. Audit, 238 Morrill. Y2K preparedness; internal audit update.
- 9:45 a.m. Facilities, 300 Morrill. Schematic plans and infrastructure improvements for Coffman Union and River Bend Commons.
- 9:45 a.m. Faculty, staff and student affairs, 238 Morrill. Student survey results.
- 2 p.m. Educational planning and policy, 300 Morrill. Intellectual property; Rochester discussion.

Friday, September 10

- 10:20 a.m. Board of regents, 238 Morrill. 2000 state capital request; report of the president; introduction, new dean of the College of Agricultural, Food, and Environmental Sciences. □

What: \$2.5 million gift to College of Natural Resources

Contacts: Martha Douglas, University Foundation, (612) 626-9712

Martin Moen, College of Natural Resources, (612) 624-0793

Deane Morrison, University News Service, (612) 624-2346

U OF M COLLEGE OF NATURAL RESOURCES RECEIVES \$2.5 MILLION GIFT

MINNEAPOLIS / ST. PAUL--The University of Minnesota has received a \$2.5 million gift from the Wilderness Research Foundation to support the continuation of wilderness research in northern Minnesota. The gift creates an endowment to be used by the university's College of Natural Resources to fund ecological and forestry research and education, with a focus on the forests of northeastern Minnesota. The foundation operates the Wilderness Research Center, which is based near Ely, Minn. The gift is the result of a 50-year relationship between the college and the Chicago family of Frank Hubachek, Sr., who established the Wilderness Research Center and Foundation.

"The Hubachek family has given the university substantial resources for forest research," said university President Mark Yudof. "Their contributions over the years have provided access to a carefully preserved wilderness area with funds for long-term research."

"We're pleased to have the opportunity to place the future of the Wilderness Research Center in the hands of a trusted partner," said F.B. "Bill" Hubachek Jr., president of the Wilderness Research Foundation. "It is our hope and expectation that this endowment will appreciate over future years through prudent investing and additional gifts from family members and other interested parties."

The elder Hubachek began what was to become a lifelong investment in the Quetico-Superior wilderness in 1937, when he purchased a tract of pines on the shores of Basswood Lake--land that is now a part of the Boundary Waters Canoe Area Wilderness. Hubachek created the Wilderness Research Center in 1948 to fulfill his passion for learning more about forested communities and how natural ecosystems function. Now located on Fall Lake, the center includes approximately 350 acres contiguous to the BWCAW. Hubachek Sr. died in 1986.

"Through the long-term research funded by this gift, we'll be able to learn much more about how natural ecological systems function and how we can secure their survival," said Al Sullivan, dean of the College of Natural Resources. "This generous gift builds on the bridge of friendships between two generations of the Hubachek family and three college deans."

Background on the gift follows this release. □

media advisory

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6 Morrill Hall
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TOMORROW AT THE FAIR

An update on U of M people and events for SATURDAY-MONDAY, AUG. 28-30

Saturday

- 11 a.m. U of M graduate Linda Kelsey talks about her experiences as a television ("Lou Grant") and stage actress.
- 1 p.m. Eileen Strauss of the Raptor Center will display a red-tailed hawk and barred owl.
- 3 and 6 p.m. Members of Chemistry Outreach, a student group, demonstrate chemical reactions that'll knock your socks off.

Sunday

- Noon. Master juggler and 1997 U of M graduate Jonathan Poppele uses juggling, humor and hands-on demonstrations to show how our senses give us feedback and how our brains use that feedback to learn.
- All day at the Academic Health Center booth: Human brain and spinal cord on display.
- 1 and 4 p.m. Chemistry Outreach (see above).
- 3 p.m. Coach of the day: Glen Mason, head football coach. Also players, cheerleaders, danceline and band.

Monday

- 11 a.m. Cloning pioneer and cancer expert Robert McKinnell, a retired professor of genetics, cell biology and development, will speak on the rationale for cloning. "It's good for producing transgenic animals that can produce pharmaceuticals too complex to be made by bacteria," says McKinnell. McKinnell, who is writing a book on cloning, opposes applying it to humans. "It's folly," he says. "A waste of resources."
- 3 p.m. Coach of the day: Fred Roethlisberger, head men's gymnastics coach.
- The U of M building is on Dan Patch Avenue, 1.5 blocks west of the Snelling Avenue entrance.
- Contact the U of M News Service, (612) 624-5551.

Complete Schedule for U of M Stage on the Web at
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Steer's collaborators include Betsy Kren and Paramita Bandyopadhyay at the University of Minnesota and Bhupesh Parashar, Namita Roy-Chowdhury and Jayanta Roy-Chowdhury of Albert Einstein College of Medicine. □

Background on Hubachek Gift in Support of College of Natural Resources

The Wilderness Research Center was founded by Frank Brookes Hubachek Sr., a Chicago attorney and 1922 graduate of the University of Minnesota Law School who served as a trustee of the University of Minnesota Foundation during its first years.

The Wilderness Research Foundation has supported the work of Peter Reich, a professor of forest resources at the university, and others to better understand the future of forest composition and health in preserved and managed forest lands in northeastern Minnesota. Such research has focused on critically important issues, such as the effects of wildfire and logging on forest biodiversity and productivity. The research serves as training for students and postdoctoral associates and provides information useful to the environmental and forest industry communities of the state. Other research conducted at the center has concerned the effects of habitat changes on native songbird populations, the ecology of small mammals, and white pine regeneration and blister rust.

The \$2.5 million gift is the largest single, private contribution ever made to benefit the University of Minnesota's College of Natural Resources. The Hubachek family is also the college's largest private donor, having funded the Frank B. Hubachek Chair in Forest Ecology in 1986. Peter Reich has held the chair since 1991.

The 50-year relationship between the Wilderness Research Center and the University of Minnesota College of Natural Resources was forged between Frank Hubachek Sr. and Frank Kaufert, dean of the college from 1947 to 1974. Dean Richard Skok took up where Kaufert left off and continued building the ties with F.B. Hubachek Jr. after the elder Hubachek passed away in 1986.

news

What: Anonymous donor gives kidney, makes history
Who: Arthur Matas, M.D., (612) 625-6460
 Jeffrey Kahn, Ph.D., M.P.H., (612) 624-9440
Contacts: Teri Charest, Academic Health Center, (612) 624-4604
 Ryan Davenport, Fairview, (612) 672-4164

ANONYMOUS DONATION OFFERS NEW WAY TO OVERCOME ORGAN SHORTAGE

MINNEAPOLIS / ST. PAUL--University of Minnesota physicians performed an organ transplant in August at Fairview-University Medical Center that made history because the donor and recipient do not know each other and have never met. Both donor and recipient are doing well.

The donor, who has agreed to be identified as a 50-year-old woman, approached the transplant team wanting to do what she could to fight the nation's organ shortage. She wanted to donate one of her kidneys, an offer that had been turned down by several other centers across the country.

It was not the first time the Minnesota team of doctors, transplant coordinators, social workers, psychiatrists, attorneys and ethicists had been approached with this kind of offer. It was, however, the first time that the prospective donor had met the criteria for living donation. The team agreed to allow anonymous donations in July 1998.

"The major advantage of living donor transplants, even from unrelated donors, is that the short and long-term results are better than with cadaver organs," said Dr. Arthur Matas. Living donor surgeries are done simultaneously, eliminating the need to preserve the organ. "Anonymous donation has the potential to save many lives." Teams led by Matas and Dr. Abhi Humar did the operations.

"This case is unusual and raises important issues," said Jeffrey Kahn, director of the university's Center for Bioethics. "We had to be sure that the donor was truly motivated by altruism, that she had a realistic understanding of what was involved and that nothing of value was exchanged for the donation."

There have been cases in the United States in which the donor and recipient did not know each other, but met before or after the transplant. In this case, both the donor and recipient want to remain completely anonymous. "We believe this will be the first of many such 'anonymous' donations," Kahn said.

Most transplanted kidneys come from cadavers; however, the number of living donations has doubled since 1988, according to the United Network for Organ Sharing. Approximately half of the kidneys transplanted at Fairview-University come from living donors. They have transplanted more than 2,500 living donor kidneys to date, more than any other center worldwide. □

What: Announcement of major gift to U of M

When: 10 a.m. Tuesday, Sept. 7

Where: 238 Morrill Hall

Contacts: Martha Douglas, University Foundation, (612) 626-9712

Amy Phenix, University News Service, (612) 625-8510

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof will announce a multimillion-dollar gift to the university at 10 a.m. Tuesday, Sept. 7, in Room 238 Morrill Hall. The gift will support one of his strategic initiatives, designed to boost the university's standing as a major research university and Minnesota's economy.

University officials and the donor will be on hand to answer questions. □

What: \$10 million gift from Cargill

Contacts: Martha Douglas, University Foundation, (612) 626-9712
Mark Klein, Cargill, (612) 742-6211
Amy Phenix, University News Service, (612) 625-8510

U OF M RECEIVES \$10 MILLION FROM CARGILL FOR MICROBIAL AND PLANT GENOMICS BUILDING

MINNEAPOLIS / ST. PAUL--The University of Minnesota has received a gift of \$10 million from Cargill to expand the university's work in the emerging field of microbial and plant genomics. The gift will be used for a facility on the Twin Cities campus/St. Paul and is expected to strengthen the university's position in the genomics field.

Genomics involves the study of the sequence, function and interrelationships of genes. Scientists say the knowledge resulting from this work will lead to a more healthful food supply, new drugs and treatments and new methods to clean the environment.

The building, which will cost \$20 million, will provide a setting for an expanding number of university scientists working in genomics, which is transforming many related disciplines.

"This is a time when it is critical that the University be a national leader in generating knowledge and applications in microbial and plant genetics," said University President Mark Yudof. "The research will benefit agriculture, produce new products and help preserve the environment. We applaud Cargill's role in making this happen."

"We are extremely pleased to be making this gift, which is the largest single grant in Cargill's history," said Warren Staley, chief executive officer of Cargill. "This is an excellent example of a public-private partnership to create a community of scholars doing research and teaching in an emerging field likely to spawn new industries and new answers to the pressures of rising population on global resources."

Forecasters predict that the world's population will increase 33 percent by 2020, and plant and microbial genomics will be essential to developing new ways to meet society's growing needs for better food, as well as improving health and the environment, Staley added.

The university will ask the Legislature to fund a portion of the building's costs as part of the fiscal year 2000 bonding request. The building will house research laboratories and related office space.

The university has identified molecular and cellular biology as an area for strategic investment. This initiative includes the establishment of a Microbial and Plant Genomics Institute, funded through private and public sources, that would bring together faculty and graduate students from several university departments and provide facilities and other resources for research, teaching and outreach. □

UNIVERSITY OF MINNESOTA

Twin Cities Campus

*University News Service
Office of the Vice President for
Institutional Relations*

*6 Morrill Hall
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Minneapolis, MN 55455-0110
612-624-5551
Fax: 612-624-6369*

Cargill Donation

■ Microbial and plant genomics

- Genomics is the process of determining the location, sequence, function and interrelationships of all genes in organisms including, in this case, the genes in microbes and plants. Knowledge resulting from this work has the potential to create a more healthful food supply, develop new drugs and treatments and clean up environmental contaminants. It is among the fastest-growing fields in science.
- The University of Minnesota plans to establish a Microbial and Plant Genomics Institute to bring together faculty from such fields as molecular and cellular biology, digital technology, engineering, medicine and agriculture. A major goal of these scientists' work is applications that will enable the state to benefit from the genomics revolution.

■ The gift

- The \$10 million gift will go toward a planned \$20 million microbial and plant genomics building to house research laboratories. The university will ask the Legislature to fund the other half of the costs. In the future, an additional \$10 million technology incubator and outreach wing is planned.

■ The building

- The microbial and plant genomics building will be a 64,000-square-foot facility built on the Twin Cities campus/St. Paul. It will contain laboratories, related research space and offices. The building will house 22 senior faculty members and 175 supporting researchers.

■ Cargill

- Minneapolis-based Cargill is an international marketer, processor and distributor of agricultural, food, financial and industrial products and services with 82,000 employees in 59 countries.
- Through partnerships and grant-making, Cargill contributes approximately \$17 million each year to civic and charitable organizations.
- The gift to establish the university's Microbial and Plant Genomics Institute is the largest single donation in Cargill's history.

■ Contact

- Martha Douglas, University of Minnesota Foundation, (612) 626-9712

9/7/99

What: Health fair at U for people with vascular diseases
When: Sunday, Sept. 26, 12:30 to 5 p.m.
Where: Radisson Hotel Metrodome, 615 Washington Ave. S.E., Mpls.
Who: Alan Hirsch, M.D., (612) 626-4566
Contact: Teri Charest, Academic Health Center, (612) 624-4604

SESSIONS TACKLE TROUBLESOME QUESTIONS ABOUT UNRECOGNIZED EPIDEMIC

MINNEAPOLIS / ST. PAUL--More than 20 million people in the United States have a vascular disease--one that affects the blood vessels, arteries or lymph system--but many of them don't know it. That's why physicians from the University of Minnesota, the Mayo Clinic and others are teaming up to offer the first public Vascular Health Fair at 12:30 p.m. Sunday, Sept. 26, at the Radisson Hotel Metrodome, 615 Washington Ave. S.E., Minneapolis.

Participants will learn what causes common vascular diseases such as peripheral artery disease (PAD), varicose veins, stroke, leg wounds and lymphedema, and how they can be prevented. There will be free blood pressure and cholesterol checks. Fairgoers may also take simple free tests to determine if they are at risk for stroke or PAD. Companies that make or sell products, such as support stockings, for people with vascular disease will also display their merchandise.

"Almost every American family has at least one individual affected by one of the common vascular diseases, though it is exceedingly difficult for many to obtain an accurate, early diagnosis or clear answers about how they can improve," said Dr. Alan Hirsch. Hirsch is an associate professor of medicine and director of the university's Vascular Medicine Program.

The public health fair concludes the nation's largest primary care-focused symposium for physicians and health professionals on vascular diseases. It features local and national experts who will discuss the latest prevention strategies and treatment options.

The symposium is sponsored by the University of Minnesota Vascular Diseases Center, Fairview Health System, Minneapolis Vascular Institute, the Gonda Vascular Center, the Mayo Clinic, Consulting Radiologists, Ltd., Abbott-Northwestern Hospital, the Society for Vascular Medicine and Biology, the American Heart Association, Minnesota Affiliate, and the Minnesota Stroke Association.

To register for the public health fair, call Fairview HealthWise at (612) 672-7272. □



What: U of M's Board of Regents to meet new freshmen
When: 10 a.m. Friday, September 10
Where: 238 Morrill Hall, Twin Cities campus/Minneapolis
Contacts: Nina Shepherd, sheph001@tc.umn.edu, (612) 624-1841
Amy Phenix, phenix@mailbox.mail.umn.edu, (612) 625-8510

MEMBERS OF BEST ACADEMIC FRESHMAN CLASS IN U OF M HISTORY TO MEET REGENTS AT SEPT. 10 BOARD MEETING

MINNEAPOLIS / ST. PAUL--Members of the incoming freshmen class of 2003--the best academically prepared incoming class in University of Minnesota history--will meet the university's board of regents at 10 a.m. Friday, Sept. 10, at the regents meeting in Room 238 Morrill Hall on the Twin Cities campus/Minneapolis.

Fall semester 1999 also marks the largest percentage of freshmen living in university housing in school history, the largest single-year increase in freshman-to-sophomore retention rates since 1990 and increases in minority enrollment.

In addition, according to the Office of Admissions, since 1997 freshman applications from Minnesota residents have increased more than 30 percent and overall freshman applications to the university have increased 20 percent. □

What: Private giving to U of M

Contacts: Martha Douglas, University Foundation, (612) 626-9712

Deane Morrison, University News Service, (612) 624-2346

PRIVATE GIVING TO U OF M REACHES \$134.8 MILLION

MINNEAPOLIS / ST. PAUL--Donations to the University of Minnesota surpassed \$134 million for the second fiscal year in a row, according to the University of Minnesota Foundation. Total gifts, including pledges and deferred gifts, were \$134.8 million, compared to \$134.5 million the previous year.

"The commitment of the community and alumni to the university is just incredible," said university President Mark Yudof. "One of the most gratifying parts of my job has been working with our donors, who share our dedication to quality teaching, research and outreach."

The largest portion of this year's contributions came from university alumni, whose gifts totaled \$58.4 million, or 43 percent of all giving. Gifts from corporations and foundations totaled \$45.6 million, or 34 percent. Gifts in the past fiscal year included a number of extraordinary contributions, including \$10 million from Richard McNamara and a \$10 million commitment from Curt Carlson prior to his death in February. Twenty donors made gifts of \$1 million or more.

The new fiscal year has brought a \$10 million gift from Cargill for a new research facility to expand the university's work in the emerging field of microbial and plant genomics. The gift was announced yesterday (Tuesday, Sept. 7).

"This is the second consecutive year that alumni, friends and institutions have supported the university at this historically high level," said Gerald Fischer, president and CEO of the University of Minnesota Foundation, which oversees university fund raising. "The new gift levels in 1999 were 58 percent above the results three years ago."

As a result of new gifts and investment performance, the University of Minnesota Foundation's endowment increased 11 percent--to \$619 million--as of June 30, 1999. The combined endowments managed by the University of Minnesota Foundation, the University of Minnesota and the Minnesota Medical Foundation totaled \$1.5 billion on June 30.

The University of Minnesota Foundation, founded in 1962, tracks all gifts to the university and provides the leadership for its fund-raising efforts on all campuses. The Minnesota Medical Foundation oversees fund raising for the medical schools on the Twin Cities and Duluth campuses and for the School of Public Health. □

www.umn.edu/urelate/news.html 9/8/99

Analysis of CEO report **fact sheet**

- **The Center for Equal Opportunity (CEO) report, *Preferences in Minnesota Higher Education*, contains misleading and inaccurate information.**
 - The report states, "*There is substantial evidence that the University of Minnesota campuses at Twin Cities and Duluth discriminate against white applicants and in favor of minority applicants in their admissions policies.*" This is false. There are many reasons applicants are rejected. The individual review process looks at a variety of factors and provides a discretionary assessment of the whole individual, not just one factor.
 - The report analyzes admissions by ACT scores only, by class rank only and by test scores and class rank combined, drawing three separate conclusions. The university never uses ACT scores alone; test scores are always combined with class rank. Thus, the only analysis in the CEO report that is relevant to the university is that which combines test scores with class rank.
 - Because the report combines two years of data, the number of students it describes as either admitted or rejected must be divided by two to get an annual figure.
 - The report fails to consider the structure of admissions on the Twin Cities campus. The study is based on campuswide data that does not take into consideration differing college enrollment targets (the number of students) and admissions standards. The Twin Cities campus has eight freshman-admitting colleges. The admissions standards of each college are based on high school rank, ACT or SAT score, and satisfaction of high school preparation requirements. These standards vary by college. Admission is to a particular college. By combining college-specific data, the report assumes that students admitted to one college are displacing students not admitted to another college; this is never the case.
 - The report's claims about remedial course work at the University of Minnesota are based on a misunderstanding of the university's preparation requirements, and we believe it should be discounted. Although students are required to make up any deficiency in preparation requirements, in most cases the course work is not remedial; it carries university credit that counts towards a university degree. The only exceptions are 0-level mathematics and composition courses in General College on the Twin Cities campus and comparable course work on the other campuses.
 - The report makes claims about university graduation rates. The university has implemented many initiatives to improve student retention and graduation rates. One result: In 1991 the freshman-to-sophomore retention rate was 58 percent for African American students and 81 percent for the student body as a whole. By 1998 the gap had narrowed to 78 percent for African Americans and 84 percent for the student body as a whole.
- **Contacts**
 - Wayne Sigler, Director of Admissions, (612) 625-2006
 - Amy Phenix, Director, University News Service, (612) 625-8510

U of M-Twin Cities freshman admission policies and procedures

■ University admissions policy

- Undergraduate admission policies are designed to be fair and provide access to the university to a broad group of students. While the overriding goal of the admissions system is academic success, the university also makes discretionary decisions about individual applicants.

■ Routes for freshman admission

- Automatic admissions.** Applicants who submit a complete application by the December 15 priority deadline and meet all admission requirements are admitted. The highest priority in the university's recruiting efforts is to get as many students as possible to apply by the December 15 priority deadline. We estimate that approximately 75 percent of our freshman applicants for fall 1999 met this deadline. (General College has an earlier deadline and an admission process that reflects its mission to serve high-potential students who do not meet the admission requirements for the other freshman-admitting colleges.)
- Individual review.** Applicants not meeting standards for automatic admission are individually reviewed, and a discretionary admissions decision is made based on an overall assessment of their circumstances. Such consideration may be based on one or more of the following:
 - evidence of exceptional achievement or aptitude not reflected in the academic record or standardized test scores
 - evidence of exceptional talent or ability in artistic, scholarly, leadership or athletic performance
 - demonstration that the applicant's enrollment would enhance the university's diversity
 - pattern of steady improvement in academic performance
 - strong college-preparatory curriculum
 - size of graduating class
 - extenuating circumstances, including educational disadvantage, that have adversely affected the academic record or test scores

■ Academic qualifications vs. numeric goals

- The university never sacrifices academic qualifications to achieve numeric goals.

■ Admission appeals process

- An applicant who is not offered admission to the college of his or her choice or to the Twin Cities campus may request a further review of his or her application through the written admissions appeals process.

■ Contacts

- Wayne Sigler, Director of Admissions, (612) 625-2006
- Amy Phenix, Director, University News Service, (612) 625-8510

Media note: EMBARGOED UNTIL THURSDAY, SEPT. 9, 1999

What: U of M president assesses Center for Equal Opportunity report
Contact: Amy Phenix, University News Service, (612) 625-8510

PRESIDENT YUDOF STANDS BEHIND U OF M ADMISSIONS POLICIES

MINNEAPOLIS / ST. PAUL--Responding to a report, *Preferences in Minnesota Higher Education*, released today by the Center for Equal Opportunity (CEO), a Washington, DC think tank, University of Minnesota President Mark Yudof said, "The university is proud of our efforts to create a diverse student body through both our recruiting and admissions processes. While test scores and grades are very important, we review files individually to ensure fairness and the achievement of our mission."

Yudof explained that the university places a high value on creating a diverse student body for a number of reasons. "Higher education is a unique institution affording access to good jobs and economic self-sufficiency. It also is the key that opens doors to workplaces and boardrooms," he said. "If higher education fails to prepare a diverse pool of students, our state and nation will never unlock the door to opportunity. In addition, we believe that a diverse student body enhances the learning environment for all students, better preparing them for success in our global marketplace." Finally, as a land grant institution supported by taxpayers, the university has what Yudof called a "special obligation" to be accessible to all students.

Currently, students of color account for 13.5 percent of freshman enrollees. Statewide, in 1996-97 people of color represented 8.3 percent of the population; however, among kindergarten through 12th grade students, people of color represented 14.3 percent of the population. "Overall, our student body is broadly representative of the state of Minnesota, and for some groups our enrollment exceeds the state's population," said Yudof.

The CEO report was produced using two years of undergraduate admissions data provided by the University of Minnesota. It is the latest in a series of reports by the CEO examining admissions policies at public universities and service academies. CEO has produced reports on the University of California System, Michigan, Virginia and Washington state, among others.

Yudof noted that the report's major conclusion, that over the two-year period 35 white applicants with both higher ACT scores and a higher class rank than the medians for African American admittees, were rejected on the Twin Cities campus. This is 35 applicants out of a total of 23,638 applicants, or an annual total of 18 applicants out of 11,819 applicants. "I don't think this is a particularly compelling finding; it's even reasonable to question its statistical significance," Yudof said. "The university admits

(MORE)

on average about 80 percent of its applicants, underscoring our accessibility for all students." The university places emphasis on recruiting a diverse applicant pool. White students are admitted at a rate of 84 percent of applicants, African American students at a rate of 80.6 percent, Hispanic students at a rate of 89.9 percent and Asian students at a rate of 93.5 percent.

"We place a great deal of value at looking at the whole individual," Yudof concluded. "The sole purpose of our admissions system is not only to produce the highest statistical probability of academic success but to create a well-rounded student body that represents Minnesota and enhances the learning environment for everyone." □

What: National bike tour to raise money for diabetes research at the U
When: Monday, Sept. 13, 2:15 p.m. (Minneapolis), 6 p.m. (Weisman gala)
Where: Lake Calhoun (W. Lake and E. Calhoun), Weisman Art Museum
Contacts: Teri Charest, Academic Health Center, (612) 624-4604
Dawn Halverson, Diabetes Institute, (612) 624-0450

NATIONAL DIABETES BIKE TOUR STOPS IN MINNEAPOLIS

MINNEAPOLIS / ST. PAUL--Fast Track to a Cure, a national bicycle tour to raise money for diabetes research, will stop in Minneapolis Monday, Sept. 13. The University of Minnesota men's cycling team will ride with them for the Minnesota segment of the tour, starting at 11 a.m. at Lake Calhoun (W. Lake Street and E. Calhoun Parkway). Dr. David Sutherland, director of the university's Diabetes Institute for Immunization and Transplantation, will ride with them to the university from Minnehaha Park starting at 2:15 p.m. At 6 p.m. the riders will be honored at a gala in the university's Weisman Art Museum.

The tour, which began Aug. 14 in San Diego, is designed to emphasize the toll diabetes takes on Americans and raise money for a cure. Diabetics and those concerned about diabetes are taking to their bicycles to carry the baton through each state of the tour. Twin Cities cycling enthusiasts will join the tour as it moves into Minneapolis, and Denny Hecker's Southview Chevrolet-Jeep will assist in transporting their equipment.

Diabetes claims a life every three minutes, killing more Americans than AIDS and breast cancer combined. "It's the undeclared epidemic of our time, and the most common childhood illness," said Dr. Bernhard Hering, assistant professor of surgery and head of the institute's islet transplantation program.

At the gala, Hering and Sutherland will explain current treatments for type I diabetes, including pancreas and human islet transplantation. Islet cells in the pancreas produce insulin, which the body uses to metabolize glucose. Diabetes is an autoimmune disease in which the body mistakenly attacks and destroys islet cells. Hering and colleagues believe they can restore a diabetic's insulin production by injecting islet cells contained in approximately one teaspoon of fluid into the liver.

Physicians have successfully restored insulin production in diabetics for over 25 years by transplanting the entire pancreas, and in some cases, part of a pancreas from a living donor. If successful, Hering says the islet transplantation alone may make whole-organ pancreas transplantation obsolete.

The world's first pancreas transplant was performed at the university in 1966. Since 1979 the procedure has had an 85 percent success rate. In 1998 Sutherland and colleagues performed 114 pancreas transplants, more than any other transplant team in the world.

The Insulin-Free World Foundation and Bridge Information Systems sponsor the tour. □

What: Natural Resources Science Building to close
Where: 1518 Cleveland Ave., Twin Cities campus/St.Paul
Contacts: Tim Busse, facilities management, (612) 624-2863
Mike Nelson, University News Service, (612) 626-7701

NATURAL RESOURCES SCIENCE BUILDING DECLARED UNINHABITABLE

MINNEAPOLIS / ST. PAUL--The University of Minnesota's Natural Resources Science Building, located at 1518 Cleveland Ave. on the Twin Cities campus/St. Paul, will close on or near November 1.

The building, constructed in 1939, sustained extensive water damage during a July rainstorm. Water entering the building apparently triggered an existing condition within the walls which caused a growth of mold, fungi and bacteria. After an inspection by the university's department of environmental health and safety, the basement, second and third floors were declared uninhabitable.

"Removing the mold would require major renovation work," said Tim Busse, facilities management communications coordinator. "Using the square-foot costs of the Peters Hall renovation as a reference, the estimated cost for renovation of the Natural Resources Science Building is \$5 million."

The building initially served as the student health center for many years. It was vacant for much of the 1980s, until nearby North Hall was razed. Programs and staff slowly filled the building's 13,700 square-feet through the 1990s. □

Slides of Ian Dudley's sculpture are available from Michelle Pietrzak-Wegner at (612) 626-7254.

What: Bell Museum unveils sculpture garden, new mission
When: 1 p.m. Saturday, Sept. 25
Where: Bell Museum of Natural History
Contacts: Michelle Pietrzak-Wegner, Bell Museum, (612) 626-7254
Nina Shepherd, Institutional Relations, (612) 624-6868
Deane Morrison, News Service, (612) 624-2346

U OF M BELL MUSEUM UNVEILS SCULPTURE GARDEN, NEW MISSION

MINNEAPOLIS / ST. PAUL--The University of Minnesota Bell Museum of Natural History will unveil a major new outdoor sculpture garden at 1 p.m. Saturday, Sept. 25, at a public ceremony to mark the museum's new mission to integrate art and science in exhibits, programs and classes. Hosting the unveiling will be university President Mark Yudof and university Regent Patricia Spence.

The centerpiece of the garden is a life-sized bronze sculpture of a moose and three wolves, representing the eternal struggle for survival between predator and prey. The sculptures are set in a 5,000-square-foot landscape of native Minnesota trees, plants and rocks, which marks the new entrance to the museum.

The garden is an extension of the Bell Museum's indoor exhibits, as well as a way to demonstrate the museum's new commitment to integrate art and science in approaches to helping people learn about the natural world. This fall the museum will host a national conference on the topic of art and science, as well as unveil a series of exhibits that highlight the importance of both disciplines in understanding the environment.

"Society's need to understand the environment and its role in supporting human society has never been greater," said Bell Museum Director Scott Lanyon. "By integrating art, as well as science, in our efforts to present important environmental concepts, we hope to help more people appreciate the natural world and our role in it."

The sculpture project, which was made possible through private funding, is the culmination of seven years of work by sculptor Ian Dudley, who created the molds for the figures in his Lindstrom, Minn., studio. The landscape was designed in part by students from the university's College of Architecture and Landscape Architecture.

The Bell Museum, located at University and 17th avenues S.E. in Minneapolis, is open from 9 a.m. to 5 p.m. Tuesday through Friday, 10 a.m. to 5 p.m. Saturday and noon to 5 p.m. Sunday. Admission is \$3 adults, \$2 children. Free Sunday. For more information, call (612) 624-7083. □

What: Investigation into allegations of financial irregularities involving Dennis Polla

**Contacts: Christine Maziar, vice president for research, (612) 626-0309
Amy Phenix, University News Service, (612) 625-8510**

UNIVERSITY OF MINNESOTA DISCLOSES INVESTIGATION

MINNEAPOLIS / ST. PAUL--The University of Minnesota has disclosed to federal agencies an ongoing investigation into allegations of financial irregularities by Dennis Polla, head of the university's Biomedical Engineering Institute. On Friday, September 10, the university began the process of informing the National Institutes of Health, and other federal agencies with an interest in grant funds administered by Polla, of the investigation. The disclosure process was completed Monday, September 13.

The investigation focuses on three primary areas of concern: management of sponsored funds, overall financial management and potential conflict of interest involving Polla's outside consulting activities.

The preliminary inquiry by the university's audits department, in conjunction with the Office of the General Counsel, was launched in early March in response to allegations it received from university employees. Preliminary results of the inquiry revealed a complex set of issues, and on August 26 a decision was made to expand and accelerate the investigation by retaining outside counsel to assist. At that time Polla, who has cooperated throughout the investigation, agreed to be replaced as the principal investigator on an upcoming grant proposal. It was also decided that the Institute of Technology Dean's Office would give heightened review of financial transactions on Polla's grants.

The university expects the investigation to be completed within 90 days. □

What: Mark Yudof to appear on digital telecast

Contacts: Jim Thielman, University News Service, (612) 624-0214

U OF M PRESIDENT TO APPEAR ON KTCA'S FIRST DIGITAL BROADCAST

Exactly 42 years after Twin Cities Public Television aired its first broadcast, University of Minnesota President Mark Yudof will be among the guests for KTCA's first digital broadcast to be aired 7:30 p.m. tonight (Thursday), Sept. 16. Yudof will discuss how the university is poised to provide digital programming by building a digital technology center, and through the university's Institute for New Media.

The university has already provided programming for KTCA such as "Literature and Life: The Givens Collection," which had a companion Web site (<http://www.ktca.org/litandlife>) viewers could visit to further explore the show's lessons in African-American literature.

Because of Yudof's initiatives in the area of digital technology, the university is positioned to continue to provide research and graduates in this communication field. The university's electrical engineering labs have long performed research into the hardware and software of video compression. Advancements in video compression helped bring about Thursday night's digital broadcast. The university also has a National Science Foundation grant to research wireless video transmission.

On the production side, renovations in Murphy Hall will allow up to 60 students to learn how to create, edit and generate digital productions that have web content, video, audio and most likely even interactive components.

Limited digital television service began in larger markets in 1998. Public and commercial broadcasters intend to begin service between 1999 and 2001, and viewers will not be able to receive the digital signal without a set-top box. Its expanded data capacity will allow viewers to watch a show and, in the background, receive audio, text and images related to the program. □

What: U receives grant to improve education for students with disabilities
Contacts: Judy Fox, project director, (612) 626-7292
 Bob San, University News Service, bsan@mailbox.mail.umn.edu,
 (612) 624-4082

U OF M GENERAL COLLEGE RECEIVES GRANT TO IMPROVE EDUCATION FOR STUDENTS WITH DISABILITIES

MINNEAPOLIS /ST. PAUL--The University of Minnesota's General College and Disability Services have received a \$692,000 grant from the U.S. Department of Education for Curriculum Transformation and Disability (CTAD), a three-year project to help faculty and administrators more effectively teach students with disabilities.

The project will produce, evaluate and disseminate a nationally replicable model for teaching college students with disabilities. Central to the model will be training to increase faculty understanding of disability issues and ensure inclusive curricula. Participating faculty will receive training and technical assistance in increasing the accessibility of their curricula, improving the quality of classroom experience for students with disabilities, improving interactions between students with disabilities and faculty and administrators, and increasing retention rates of students with disabilities.

"We are very pleased to be collaborating with Disability Services," General College Dean David Taylor said. "Together we will be able to address President Yudof's priority to ensure that access for students with disabilities is meaningful."

A joint project of General College and Disability Services, CTAD will be housed in the Center for Research on Developmental Education and Urban Literacy at General College. General College faculty will be the pilot trainees in the project. CTAD will expand in its second and third years to include teams from departments at all four University of Minnesota campuses and from Minnesota State Colleges and Universities schools, including Minneapolis Community and Technical College, St. Cloud State University and Southwest State University. Teams from Columbus State College in Ohio, the University of Illinois at Chicago and the University of Iowa also will participate. The first training will begin in January. □

What: Xenotransplantation conference
When: Sunday, Sept. 19, 8:30 a.m. to 5 p.m.
Where: Northland Inn Conference Center, Brooklyn Park
Who: Barbara Potts, Ph.D., Center for Excellence in XenoDiagnostics,
(612) 624-3482
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF M TO HOST INTERNATIONAL CONFERENCE ON XENOTRANSPLANTATION

MINNEAPOLIS / ST. PAUL--The University of Minnesota College of Veterinary Medicine will sponsor an international workshop on xenotransplantation from 8:30 a.m. to 5 p.m. Sunday, Sept. 19, at the Northland Inn Conference Center in Brooklyn Park. Xenotransplantation is the transfer of animal organs or cells to humans.

According to a conference representative, this is the first such xenotransplantation workshop to include key people from basic medical research, the pork industry and the Food and Drug Administration.

Workshop speakers will discuss new research on xenotransplantation, including breakthroughs in infectious disease such as the discovery of means to distinguish between human and pig viruses. Speakers will also discuss recent clinical trials, for example, one in which pig neurons are used to treat Parkinson's disease.

"Minnesota has the potential of becoming a worldwide leader in xenotransplantation because of our sophisticated porcine and medical device industries, not to mention the research being done at the university," said Barbara Potts, director of the university's Center for Excellence in XenoDiagnostics. Potts will speak about developing strategies to detect cytomegalovirus, a common infection contracted by transplantation, on Sunday.

The Center for Excellence in XenoDiagnostics consists of researchers from the College of Veterinary Medicine, the Medical School and the Institute of Technology. It is among the most comprehensive centers of its kind in the country.

The xenotransplantation workshop is part of the three-day Allen D. Leman Swine Conference. □



What: Heller Hall dedication
When: 3:30 p.m. Friday, Sept. 17
Where: Cowles Auditorium, Humphrey Institute,
 310 19th Ave. S., Twin Cities campus/Minneapolis
Contacts: Mike Nelson, University News Service, (612) 626-7701
 Jim Thielman, University News Service, (612) 624-0214

MANAGEMENT AND ECONOMICS BUILDING RENAMED WALTER W. HELLER HALL

MINNEAPOLIS / ST. PAUL--The Management and Economics Building on the University of Minnesota's west bank will be officially renamed Walter W. Heller Hall during a dedication ceremony at 3:30 p.m. Friday, Sept. 17, in the Humphrey Institute's Cowles Auditorium. The dedication will honor the late Walter Heller, University of Minnesota Regents' Professor and chair of the Council of Economic Advisers under presidents John Kennedy and Lyndon Johnson.

Heller (1915-1987) was best known as a champion of sweeping cuts in personal and business income taxes to stimulate economic growth in the 1960s. He was also one of the architects of President Johnson's "War on Poverty." Recommended to President Kennedy by Hubert Humphrey as "the world's greatest economist west of the Mississippi," Heller later became known as "the educator of presidents."

During his 40 years of service at the University of Minnesota, Heller helped build the department of economics into one of the most respected in the nation. Before his retirement, he said, "I'm just one of those lucky people who's been given an opportunity to do what I wanted to do--a life in academia, teaching and public service."

"Walter Heller's spirit is very much alive in the legacy he left to the university," said College of Liberal Arts Dean Steven Rosenstone. "He is notable among the pantheon of university giants not only as a national leader but as a great teacher. He is remembered with immense affection and respect, even with a kind of reverence, by those who had the good fortune of being his colleagues and students."

A reception will follow the dedication. □

What: Treatment for sickle cell disease tested
Who: John Wagner, M.D., (612) 626-2961
Lakshmanan Krishnamurti, M.D. (612) 626-4667
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF MINNESOTA PHYSICIANS TEST NEW THERAPY FOR SICKLE CELL DISEASE

MINNEAPOLIS / ST. PAUL--University of Minnesota physicians have developed a new approach to treating patients with severe sickle cell disease, a blood disorder primarily found in black patients that can result in chronic pain, stroke and early death.

Typically, a patient with sickle cell disease undergoes traditional chemotherapy followed by a bone marrow transplant. But the toxicity of the chemotherapy can lead to early death from organ failure, infection, and graft-versus-host disease (the immune attack of the donor cells against the patient's body). In addition, there is a significant chance of late effects like sterility and cancer.

A team of university scientists developed the new treatment regimen in an attempt to obtain the benefits of bone marrow transplantation without the risks of side effects or early death.

"Rather than relying on high doses of chemotherapy to destroy the patient's diseased marrow, we rely on the donor's immune system to reject the patient's marrow and gradually replace it," said Dr. John Wagner, associate director of the university's Blood and Bone Marrow Transplant Program. "This new approach could vastly decrease the risks of transplantation as well as the associated discomfort, time in isolation and cost in general."

Last month, university physicians were the first in the world to treat a child with sickle disease with this new treatment. Nine-year-old Nina Herrera, of Buffalo, N.Y., underwent nine days of a new chemotherapy regimen that produced no significant side effects and irradiation to the lymph nodes before receiving a bone marrow transplant from her 12-year-old brother.

"We are very excited about this new treatment program, particularly for patients with sickle cell disease who have traditionally avoided transplant therapy because of the high risk associated with it," said Dr. Lakshmanan Krishnamurti, a pediatric oncologist.

Testing performed this week revealed that the procedure was successful. "Analysis of the blood and bone marrow demonstrated engraftment of the donor cells," said Krishnamurti.

"This is the first step of the study," said Wagner. "The next step is to broaden the application of treatment to sickle cell patients who do not have a brother or sister, commonly the bone marrow donors."

The treatment is part of a clinical study funded by the National Heart, Lung and Blood Institute. □

What: Tom Brokaw headlines 'Curtis L. Carlson Day' at U of M

When: Monday, Sept. 27

Contact: Linda K. Berg, lberg@tc.umn.edu, (612) 624-3333
Susan Ahn, ahn@mailbox.mail.umn.edu, (612) 624-8038

CURT CARLSON'S LEGACY HONORED AT UNIVERSITY OF MINNESOTA

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents has proclaimed Monday, September 27, as "Curtis L. Carlson Day" at the university, in honor of Carlson's legacy and generosity to university students, faculty and researchers.

As part of the day's celebration, Tom Brokaw, NBC anchor and author of the best seller "The Greatest Generation," will speak at 9 a.m. in Northrop Auditorium as part of the Distinguished Carlson Lecture Series. The series, the preeminent and longest-running lecture series at the university, is free to students, faculty, and the community through an endowment set up by Carlson in the 1970s. Although free, tickets are required and can be picked up at any Ticketmaster ticket center, including Dayton's, Mervyn's of California and Rainbow Foods stores or at various university locations.

Carlson, who died in February, was the university's largest single benefactor. Over his lifetime, he gave \$47 million to support seven colleges and numerous programs and to fund scholarships for hundreds of students.

"Curt Carlson left a legacy of unparalleled leadership at the university," said Patricia Spence, chair of the board of regents. "He provided a lasting model for all of us not only in his great generosity, but in his love for the U and his intense desire to help students and faculty."

In the afternoon, the public is invited to an open house at the Carlson School of Management to see how philanthropy has transformed the university. Guests may also audit one of seven classes. At 3:30 p.m. in the 3M Auditorium, Carlson School Dean David Kidwell will host a public forum on future trends in management education. Reservations are required for Carlson School activities and can be made by calling (612) 626-9635. □

What: U regents executive director Andrea Turner resigns

**Contacts: Patricia Spence, board chair, (320) 255-8916
Andrea Turner, (651) 702-1355**

MINNEAPOLIS / ST. PAUL--Andrea Turner, executive director of the University of Minnesota board of regents and secretary to the board since April, has resigned effective Sept. 17. Turner decided to leave this position to pursue other professional opportunities.

"The board of regents appreciates Ms. Turner's contributions and wishes her well," said Patricia Spence, chair of the board.

Ann Cieslak has been named interim executive director and corporate secretary. □



What: Yudof to blast bedrock at Riverbend Commons
When: 9:30 a.m. Wednesday, Sept. 22
Where: Riverbend Commons area, south of Coffman Union
 near East River Road
Contacts: Tim Busse, Facilities Management, (612) 624-2863
 Mike Nelson, University News Service, (612) 626-7701
 Nina Shepherd, Institutional Relations, (612) 624-1841

U PRESIDENT YUDOF TO EXPLODE BEDROCK; RIVERBEND COMMONS CONSTRUCTION UNDER WAY

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof will push a plunger and watch as explosives demolish a wall of bedrock at 9:30 a.m. Wednesday, September 22, at the Riverbend Commons area south of Coffman Union. The event will highlight the construction and renovation of the Riverbend Commons area, formerly known as the South Mall.

Riverbend Commons is a \$84.7 million, three-phase project that will include student housing, underground parking and improved access to the Mississippi River. The entire project will be funded by the university through parking and housing revenue.

Phase I of the project, expected to be completed by fall 2000, will include 225 rooms of new student housing and a new six-level underground parking facility with approximately 1,700 spaces. Phase I will also include East River Road upgrades, pedestrian connections, plaza landscaping and new utility services. Phase II will include improvement to Washington Avenue and the renovation of the Coffman Memorial Union plaza. Phase III will include the construction of pedestrian bridges over Delaware Street and the possible addition of 300 parking spaces.

"Riverbend Commons will create a unique, student-focused area on the south end of campus that will connect the university to the Mississippi River and capture the spirit of architect Cass Gilbert's original grand plan," said Yudof.

Before the demolition, media are invited to an 8:30 a.m. Riverbend Commons presentation in the west wing of the Campus Club on the fourth floor of Coffman Union. For more information go to umn.edu/construction and click on Riverbend Commons. □

What: U Mini Medical School fills up
When: October 13-November 17
Who: Gregory Vercellotti, M.D., (612) 626-2640
Contact: Amy Johnson, Academic Health Center, (612) 625-2640
Jennifer Stumpf, Academic Health Center, (612) 624-1923

U OF MINNESOTA PLANNING SECOND MINI MEDICAL SCHOOL IN SPRING

MINNEAPOLIS / ST. PAUL--Enrollment in the University of Minnesota's first Mini Medical School Oct. 13 through Nov. 17 has closed due to an overwhelming response the first day. The sessions are designed for no more than 350 participants, but more than 2,000 expressed interest. Those who were unable to find a place in the fall sessions will be first in line for the second Mini Medical School in the spring.

The lecture series, taught in evening sessions by top university faculty, covers anatomy, infectious diseases, physiology, genetics, cancer and complementary care. Participants will better understand all aspects of medicine from basic science to clinical practice, and will receive a diploma at graduation.

"There is an incredible desire in the community to learn more about science and medicine," said Dr. Gregory Vercellotti, professor of medicine and co-creator and host of the lecture series. "Mini Medical School is a program designed to fulfill the curiosity that so many people have expressed."

The Mini Medical School is modeled after a similar program at the National Institutes of Health, which has also received overwhelming response. NIH also serves as a resource to universities interested in starting their own programs.

For more information or to be added to the waiting list for the spring Mini Medical School, call 1-800-864-0819 or visit the Mini Medical School Web site at www.ahc.umn.edu. The sessions are free, but registration is required.

What: Minnesota Literacy Summit

When: Monday and Tuesday, Sept. 27 and 28, 1999

**Contacts: Rosemary Miller, co-chair, Minnesota Literacy Summit
(612) 625-0518**

**Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu,
(612) 624-8038**

WORKING TOGETHER TO TEACH JOHNNY TO READ

MINNEAPOLIS / ST. PAUL--Local leaders in literacy will join national experts for a two-day conversation on the best ways to teach kids to read at the Minnesota Literacy Summit, Monday and Tuesday (Sept. 27 and 28), at the Radisson Hotel Metrodome, 615 Washington Ave. S.E., Minneapolis.

The University of Minnesota College of Education and Human Development is co-sponsoring the summit, which aims to bridge the gap between research and practice in the fields of reading and literacy.

"Investigating ways to improve literacy education in Minnesota schools is the subject of this summit and frankly, I cannot imagine a topic of more importance to all of us," said university President Mark Yudof. "The summit is the first critical step in developing a plan to improve reading skills in our young people, and we're proud to have the university involved in this vital community issue."

The summit begins with a welcome speech by Yudof at 1:15 p.m., followed by a charge to educators by U.S. Sen. Paul Wellstone at 1:30 p.m. The program is broken into three sessions, the first addressing pre-kindergarten and children's language and literacy development. Session two focuses on kindergarten through grade three. Session three addresses literacy issues facing grade four and above.

"This event is ground breaking," said Rosemary Miller, co-chair of the summit. "The experts are here presenting the theories and what we know to work in the realm of teaching literacy." Miller said there is no single answer to teaching literacy, but many interconnected paths.

Experts involved in the summit include St. Paul Public Schools Superintendent Patricia Harvey, who recently kicked off a citywide effort to get everyone to read 25 books a year. She will be joined by Lorraine Anderson, St. Paul Public Schools teacher; Nugget Fields, president of the Minnesota Reading Association; Terilyn Turner, area superintendent for the St. Paul Public Schools; JoAnn Heryla, southwest area superintendent for the Minneapolis Public Schools; Robert Wedl, executive director of special education services for the Minneapolis Public Schools; and Mary Dooley Burns, assistant community education director for family education with the St. Paul Public Schools.

Noted university scholars include Barbara Taylor, holder of the Guy Bond Chair in Reading and professor of curriculum and instruction; Michael Graves, professor of curriculum and instruction and head of Literacy Education Program; and Heidi Barajas Howarth, assistant professor in General College. □

What: New U of M College of Agriculture dean to tour Greater Minnesota
When: September and October
Where: 13 cities
Contacts: Dani O'Reilly, College of Agriculture Communications, (612) 624-3235
 Bob San, University of Minnesota News Service, (612) 624-4082

NEW U OF M COLLEGE OF AGRICULTURE DEAN TO LAUNCH OUTREACH TOUR

MINNEAPOLIS /ST. PAUL—Charles Muscoplat, the new dean of the University of Minnesota College of Agricultural, Food and Environmental Sciences, will launch a 13-city tour of Greater Minnesota starting with a visit to St. Cloud Tuesday, Sept. 28.

Muscoplat's tour is part of his plan to meet people in rural Minnesota and learn more about the university's connection with Greater Minnesota. Other cities on his travel itinerary include Morris, Willmar, Renville, Waseca, Mankato, Lamberton, Grand Rapids, Staples, Rosemount, Roseau, Warroad, Thief River Falls and Crookston. Charles Casey, interim dean and director of the University of Minnesota Extension Services, and Jeff Klausner, interim dean of the College of Veterinary Medicine, will accompany him.

Muscoplat, a native of St. Paul, is a widely recognized scientist and leader in biotechnology and its application to human, plant and animal improvement. He has extensive expertise in academia, basic and applied research, teaching, business, technology transfer, administration, FDA regulatory affairs, public service in agriculture and public policy development. He helped start one of the nation's first biotechnology animal health products and played a key role in the development of the first U.S. biotechnology plant product—herbicide-tolerant corn.

Muscoplat, who will also serve as vice president for agricultural policy and director of the Minnesota Agricultural Experimental Station, received a bachelor degree in chemistry and a doctorate in veterinary microbiology from the University of Minnesota. He served as a faculty member in veterinary medicine at the university from 1976 to 1983. He has taught courses in immunology, clinical immunology and business, and has published more than 130 research publications. Prior to returning to the university, he was vice president of medical affairs at MGI Pharma Inc.

"Dr. Muscoplat combines the talents and perspectives of a first-rate scientist, academician, businessperson, manager and advocate for agriculture," said University of Minnesota President Mark Yudof. "I believe his appointment as dean and vice president sends a strong signal that the University of Minnesota is committed to the agricultural community, to outreach to support farmers and to technological innovation. I also believe he will work well with students, faculty and alumni and that he will serve as a strong voice for agriculture in my administration." □

What: Grant for anti-cancer drug research

Who: David Sherman, Ph.D., (612) 626-0199

Contact: Teri Charest, Academic Health Center, (612) 624-4604

GENETICS OF BACTERIA AND FUNGI MAY BE KEY TO NEW ANTI-CANCER DRUGS

MINNEAPOLIS / ST. PAUL--The University of Minnesota has received a four-and-a-half-year, \$5 million grant from the National Cancer Institute (NCI) to discover and develop new anti-cancer drugs using genetic material from bacteria and fungi. The award, coming the same month as a \$10 million gift from Cargill for a new microbial and plant genomics building, poises the university for national leadership in the emerging field of microbial genomics, which spans biological, chemical, engineering and computer sciences.

The research will employ new technology, invented by Sherman and his colleagues at the university last year, to obtain large segments of genetic code from unusual bacteria and fungi and use them to make new chemicals. These chemicals will be tested to determine their value as anti-cancer drugs. Some of the most important clinical anti-cancer drugs discovered in recent years are the products of microbes. The technology developed by the university is faster and more cost-effective than previous methods.

"We're delighted to receive this grant, which gives us the chance to harness the full power of microbial genomics toward the discovery of new anti-cancer drugs," said principal investigator David Sherman, Ph.D., a member of the university's Cancer Center. "The research team we've assembled brings together expertise in microbiology, natural products chemistry and anti-cancer drug screening. It should yield a large number of novel and potentially useful drugs."

"This initiative, together with other initiatives planned or underway, puts Minnesota squarely on the map of the genomics revolution," said Ashley Haase, M.D., Ph.D., Regents Professor and head of the department of microbiology, where the work will be conducted. "By awarding us the grant, the NCI is recognizing the University of Minnesota Medical School's leadership role in the development of genomic technologies that enhance human health and quality of life."

The university will collaborate with the University of California-Santa Cruz, Oregon State University, Harbor Branch Oceanographic Institute and Novartis Institute for Biomedical Research on the project. It is part of a larger NCI initiative, the Chemistry-Biology Centers Program, which is designed to speed the drug development process.

Sherman's research team has brought in almost \$10 million for research over the next five years. The NCI recently awarded him a four-year grant to modify some of the current anti-cancer agents, and investigate the mechanisms that limit the efficacy of anti-cancer drugs. Other projects focus on the development of new drugs to treat *Staphylococci* and *Streptococci* infections that are increasingly resistant to antibiotics.

What: Reducing disease transmission in blood transfusions
Who: Jeffrey McCullough, M.D., (612) 626-3272
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U OF MINNESOTA PHYSICIANS TEST PROCESS TO REDUCE DISEASE TRANSMISSION IN BLOOD TRANSFUSIONS

MINNEAPOLIS / ST. PAUL--University of Minnesota physicians are investigating a new process to prevent infections transmitted during blood transfusions.

"This is an exciting development that has the potential to fundamentally alter blood transfusion and improve blood safety," said Dr. Jeffrey McCullough, director of the university's Center for Molecular and Cellular Therapy. "For the first time, it may be possible to treat cellular blood products for transfusion in a way that can protect against the transmission of viral and bacterial infections."

As part of a nationwide clinical study, McCullough and other university physicians will treat patients at Fairview-University Medical Center who are awaiting a blood transfusion with a platelet concentrate treated to prevent disease transmission. The patients participating in the study will not know if they receive the treated concentrate or a regular platelet transfusion. Platelets, the blood cells responsible for clotting, are needed by patients undergoing treatment for cancer, blood diseases, severe injuries and some kinds of surgery, including heart surgery and organ or bone marrow transplantation.

The process involves adding a chemical called psoralen to platelets, then exposing the platelet-drug mixture to ultraviolet light. The UV light causes psoralen to bind to DNA and RNA, preventing the genetic material from duplicating and thus eliminating the ability of viruses and bacteria in blood products to reproduce. The treated platelet concentrate is then used for transfusion.

"If the trials are successful, the transfused treated platelets will carry out their clotting function without the present risk of disease transmission," said McCullough.

The process was developed by Cerus Corp., a California-based biotechnology firm that is funding the year-long study. The American Red Cross is supplying the platelets used in the study. Other blood components treated with a similar process, including plasma and red cells, are also in human trials, according to McCullough.

Last year several thousand people in the United States were infected with hepatitis or HIV-AIDS as a result of blood transfusion, according to figures from the Centers for Disease Control in Atlanta.

The newly formed Center for Molecular and Cellular Therapy expedites the development and preparation of advanced therapeutic agents for clinical trials. □

What: Minnesota round table on child development
When: 7:30 a.m.-4 p.m., Friday, Oct. 1
Contacts: Christopher Watson, CEED coordinator, 612-625-2898
 Susan Ahn, University News Service, (612) 624-8038

UNIVERSITY AND NATIONAL EXPERTS DISCUSS REARING HEALTHY CHILDREN

MINNEAPOLIS / ST. PAUL--Four nationally recognized experts on children's issues, including a University of Minnesota professor, will discuss the challenges involved in all facets of raising a healthy child in the 1999 Minnesota Round Table, "Observation and Assessment of Young Children: Issues in Research, Policy and Practice," Friday, Oct. 1, at the Wyndham Garden Hotel in Bloomington.

Professionals whose jobs center on helping children grow in healthy and fulfilling ways often walk a fine line: If it seems a child isn't developing along a "normal" continuum, they must respond in a way that respects parental concerns and abilities, the child's cultural background and family social and financial circumstances. They also must make decisions with an understanding of child development and knowledge of current research in the field. These issues will be among the topics addressed at the round table.

The experts, representing varied perspectives, will respond to questions posed by the moderator.

The round table experts are:

- Marie Anzalone, Programs in Occupational Therapy, Columbia University
- Kathryn Barnard, parent-child nursing and psychology departments and the Center for Child Development and Mental Retardation, University of Washington, Seattle
- Scott McConnell, department of educational psychology, College of Education and Human Development, University of Minnesota
- Samuel Meisels, School of Education, University of Michigan, Ann Arbor

The round table is sponsored by the Center for Early Education and Development (CEED), a program of the College of Education and Human Development at the University of Minnesota. CEED fosters early education and child development through research, dissemination of information and training of professionals from the many disciplines associated with children and families.

The 1999 Minnesota Round Table is open to the public. The \$75 fee includes reading materials, continental breakfast, lunch and refreshments. □

What: U President Yudof's annual State of the University address
When: 3:30 p.m. Thursday, Sept. 30
Where: Rarig Center, Proscenium Theater, 330 21st Ave. S., west bank, Twin Cities campus/Minneapolis
Who: President Mark Yudof, faculty, students, members of the public
Contacts: Amy Phenix, University News Service, (612) 625-8510
 phenix@mailbox.mail.umn.edu
 Mike Nelson, University News Service, (612) 626-7701
 mnelson@mailbox.mail.umn.edu

YUDOF TO GIVE 1999 'STATE OF THE U' ADDRESS

MINNEAPOLIS/ST. PAUL--University of Minnesota President Mark Yudof will deliver his annual State of the University address at 3:30 p.m. Thursday, Sept. 30, in the Rarig Center Proscenium Theater on the west bank of the Twin Cities campus/Minneapolis. The State of the University speech outlines progress made during the past year and the president's vision for the upcoming 12 months. The speech will be televised live on the coordinate campuses. The address will be presented as part of the University Senate meeting. University faculty, students, staff and the public will attend.

Immediately following the speech, expected to last about 20 minutes, Yudof will answer questions from the audience, including viewers on the coordinate campuses. A reception will follow in the Rarig Center lower lobby.

Following the question and answer session, Yudof will be available to the media. Mult boxes will be available for the electronic media. In addition, the speech will be broadcast via satellite at the following coordinates:

Format: C-Band
 Satellite: Telstar 6
 Transponder: 9
 Downlink frequency: 3880 MHz (vertical)
 Site trouble number: (612) 624-3386

Downlink sites for the speech include:

Crookston campus: 15 Hill Building
 Duluth campus: Ballroom B, Student Center
 Morris campus: Science Auditorium
 Rochester: 202 Coffman Center
 Twin Cities campus: St. Paul Student Center theater

The downlink sites will cease operation promptly at 4:30 p.m. The event is free and open to the public. ☐

What: New assistant dean for U of M Graduate School
Who: Samuel Moore, (612) 625-6858
Contact: Deane Morrison, News Service, (612) 624-2346

NEW U OF M ASSISTANT DEAN TO SERVE GRADUATE STUDENTS OF COLOR, UNDERGRADUATE RESEARCHERS

MINNEAPOLIS / ST. PAUL--Samuel Moore, director of diversity initiatives and assistant to the dean of the University of Minnesota Institute of Technology, has been appointed assistant dean of the university's Graduate School with responsibilities in the areas of underrepresented graduate student services and fellowship support, as well as undergraduate research opportunities.

A native of Rockford, Ill., Moore came to the university three years ago from the University of Texas at Austin, where he was an assistant director in the College of Engineering with responsibility for fund-raising and program direction focused on undergraduate research activities. He also served as a program coordinator in the University of Texas Graduate School, where he led efforts to recruit and retain minority graduate students. Before going to Texas, Moore held positions as coordinator of faculty mentors for minority students at the State University of New York at Stony Brook, as coordinator for student development at Hofstra University and as community development specialist at the University of California at Davis.

Moore holds a bachelor's degree in fine arts from the University of Illinois at Urbana/Champaign and a master's degree in education and doctorate in communications from the University of Texas at Austin.

"We are fortunate to have someone of Dr. Moore's talent, energy and enthusiasm in this important position," said Christine Maziar, dean of the University of Minnesota Graduate School and vice president for research. □

What: U community health program moves to Phillips neighborhood
Where: 1113 East Franklin Ave., Suite 500, Minneapolis
Who: Linda Ernst, project leader, (612) 627-4616
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U COMMUNITY HEALTH PROGRAM LOCATES TO AREA SERVED

MINNEAPOLIS / ST. PAUL--The University of Minnesota Community-University Partnership in Education and Service (CUPES) program has moved its headquarters from the university's east bank to 1113 E. Franklin Ave. in the Phillips neighborhood of Minneapolis. The office will house three CUPES administrators and will be used for meetings of the CUPES board of directors.

Students from all of the university's health sciences--medicine, dentistry, nursing, pharmacy and public health--participate in the CUPES (pronounced "KOOOPS") program. They provide health information and services to residents of communities with limited access to health care.

Almost 200 students have participated in CUPES since 1998. They address health issues that have been expressed by the residents, which makes each experience unique.

The CUPES students work with community residents through three Minneapolis sites: Andersen Schools at 2727 10th Ave. South; Community-University Health Care Center at 2001 Bloomington Ave. South; and the Minneapolis Youth Diversion Program, 41 North 12th St.

"University students have brought health education to an elementary school that previously did not have health education," said Linda Ernst, CUPES project leader. "In addition, health profession students are learning to be better health care providers because they are learning from community residents how to provide more appropriate care."

CUPES is supported by a grant from the Kellogg Foundation and is governed by a board of community and university leaders. The board currently has openings. For more information contact CUPES at (612) 627-4616. □

What: 'State of the University' address
Who: University President Mark Yudof
When: 3:30 p.m. Thursday, Sept. 30
Contact: Amy Phenix, University News Service,
phenix@mailbox.mail.umn.edu, (612) 625-8510

YUDOF DECLARES 'STATE OF THE UNIVERSITY' EXCEPTIONAL

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof today gave his 1999 State of the University address, focusing on progress made toward keeping promises and promoting excellence. "Today I focus on reciprocity, the explicit and implicit promises we make to each other, to students and staff, and to the people of Minnesota," Yudof said.

Yudof reviewed progress the university has made during the past year on its five strategic interdisciplinary initiatives, including new faculty positions in molecular and cellular biology and digital technology; revival of Design Quarterly, a national journal; new media initiatives, including the renovation of Murphy Hall; and the creation of new agricultural partnerships statewide. "Legislators granted our requests," said Yudof, "and today I can report that our promises are expeditiously being fulfilled."

The university is a world leader in research; in the past 14 years, its annual expenditures on sponsored projects have risen from \$117 million to more than \$350 million. In keeping with promises to the National Institutes of Health (NIH) to revamp the university's grants management program, Yudof described significant progress on the Sponsored Projects Management Program, a system to give researchers and administrators the tools for timely, accurate and full compliance with federal regulations and university policies for grants management. "This system not only meets but exceeds" NIH requirements, said Yudof.

Another significant priority has been to improve undergraduate education. Yudof described progress here, too:

-more-

Yudof: State of the U Address

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- 78 percent of freshmen currently live in residence halls. A residential experience for every freshman should be considered, Yudof suggested.
- 85 percent of last year's freshmen returned for their sophomore year. "That's the best retention rate in Minnesota--small college or large, public or private," Yudof said.
- Enrollment in freshman seminars has grown 245 percent since last year

Despite these successes, Yudof expressed concern over graduation rates of student-athletes. "In national intercollegiate athletics, many universities are not keeping their promises to their student-athletes or to their taxpayers," he said. Yudof called for two changes in NCAA policy:

- Eliminate freshman eligibility in men's basketball, giving athletes a year to establish their academic program before competing.
- Establish and implement an NCAA rule whereby an athlete who leaves a college or university for any reason must be in good academic standing upon departure, or else the institution will lose that scholarship until the time when the student would have normally graduated.

Yudof also touched on these points:

- The need to close the gap between faculty salaries at private and public institutions
- The university's upcoming capital campaign, to be launched in October
- Campus construction progress
- Record numbers of new freshmen at the University of Minnesota-Duluth
- Technological advances on the Crookston campus
- Renovation of science facilities at the University of Minnesota-Morris
- The administration's commitment to the compact process.

The full text of the speech can be found at www.umn.edu/urelate/news.html. □

What: Board of Regents October agenda
When: Thursday and Friday, October 6-8
Where: University Center Rochester
Contacts: Amy Phenix, phenix@mailbox.mail.umn.edu, (612) 625-8510
 Mike Nelson, mnelson@mailbox.mail.umn.edu, (612) 626-7701

U OF M REGENTS TO HOLD BOARD MEETING IN ROCHESTER; ACT ON 2000 CAPITAL REQUEST

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents will convene in Rochester where the university is assuming a new leadership role in meeting the higher needs of Southeastern Minnesota. In addition to conducting its regular committee meetings and board meeting, the board will participate in tours of Mayo Clinic and University College Rochester, host a reception for Rochester community leaders and have breakfast with University Center Rochester (UCR) leaders and supporters.

The board will take action on the university's \$134.3 million 2000 capital request to the legislature and discuss academic priorities and programs in Rochester. In other matters, the board will take action on an intellectual property policy, review tuition and enrollment for the first semester and hear a report on the federal budget and higher education.

Here's a sample of committee agenda items; all meetings will be held at Coffman Center, UCR.

Thursday, October 7

- 9:15 a.m., Facilities, Room CF206. Schematic plans for Gateway Plaza and Plant Growth Facilities renovation; future capital projects.
- 9:15 a.m., Faculty, staff and student affairs, Room CF208. Enrollment and tuition, first semester 1999; review principal investigator policy.
- 3:00 p.m., Educational planning and policy, Room CF208. Intellectual property policy; discussion of university programs and outreach to respond to community needs.
- 3:00 p.m., Finance and operations, Room CF206. Implications of federal budget on higher education.
- 5:30 p.m., Rochester Marriott Mezzanine, Board of Regents and Greater Rochester Area University Center (GRAUC) reception for community leaders.

Friday, October 8

- 7:45 a.m. Salon A and B, Rochester Marriott, breakfast with GRAUC, Regents Advisory Committee and UCR official advisors.
- 9:30 a.m., tour of UCR.
- 10:45 a.m. Board of Regents, Room CF206/208. Rochester academic priorities and programs; 2000 capital request; appointment of University Foundation Trustees. □

What: Sperm count study
Who: Bruce Redmon, (612) 625-2154
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

U RESEARCHERS STUDYING POSSIBLE DECLINE OF SPERM COUNTS

MINNEAPOLIS / ST. PAUL--University of Minnesota researchers are working with physicians from around the country to study sperm counts and other factors that may influence male fertility. The Study for Future Families is part of a larger, international study that collects similar data on men from Europe, the United Kingdom and Asia.

"Several recent studies have suggested that sperm counts may have declined by as much as 50 percent over the past 50 years," said Dr. Bruce Redmon, assistant professor of medicine and principal investigator of the study. "This has prompted concerns that chemicals or other substances in the environment or workplace may be affecting male fertility."

According to Redmon, this is the first study to look at sperm counts in men from a variety of geographic areas and ethnic backgrounds.

University researchers will follow 300 newly pregnant couples for two years, collecting and studying their semen and hormone levels. Researchers will use the data to determine how the types of sperm and the amount of hormones in a man's blood influence the time it takes a couple to get pregnant. They will also examine how environmental factors and the lifestyle of the couple can influence the man's sperm and hormone levels and a couple's fertility. The samples will be compared over time to determine any changes.

The Study for Future Families is funded by the National Institutes of Health. Other states involved in the U.S. study include New York, California and Missouri. □

What: 'On the Prairie' with Bell LIVE!
When: Wednesday, Oct. 13. Shows: 9 a.m., 11 a.m. and 1:30 p.m. CDT
Where: Bluestem Prairie Preserve, Glyndon, Minn.
Contacts: Chris Tower, director of distance learning, Bell Museum of Natural History, tower004@tc.umn.edu, (612) 626-9602
 Deane Morrison, University News Service, dmorris@mailbox.mail.umn.edu, (612) 624-2346

PRAIRIE BURN, INSECTS, MAMMALS AND PLANTS STAR IN BELL LIVE! BROADCAST FROM NORTHWESTERN MINNESOTA

MINNEAPOLIS /ST. PAUL--Across the country, students in grades four through eight will witness a controlled burn on a Minnesota prairie as part of a live electronic field trip to the Nature Conservancy Bluestem Prairie Reserve, near Fargo/Moorhead, Wednesday, Oct. 13. Called "On the Prairie," the program is the latest installment of Bell LIVE!, a high-tech satellite classroom curriculum produced by the University of Minnesota's Bell Museum of Natural History on the Twin Cities campus.

Using e-mail, telephone and fax, the live satellite broadcast will link schoolchildren nationwide with renowned prairie experts from the university and around the country. Students will experience a live controlled burn on the prairie to understand the importance of this environmental management tool. Students on the site will also be involved in a variety of research projects, including replanting prairie, radio-tracking prairie chickens and mammals, and insect trapping for species counts.

Bell LIVE! aims to let students participate in hands-on classroom activities and then go behind the scenes of scientific expeditions to show that science can be fun. "On the Prairie" is designed to teach students about the importance of these vanishing habitats and how they can preserve and protect them. The Nature Conservancy Bluestem Prairie Reserve is one of the largest tracts of natural prairie in the Midwest. It is located off Highway 9, about five miles north of I-94, just east of Moorhead. □

- What:** Solving projected teacher shortages
- Who:** Steven Yussen, dean, College of Education and Human Development
- When:** 8-11 a.m. Friday, Oct. 8
- Where:** Bandana Banquet and Conference Centre, 1021 Bandana Blvd. E., St. Paul
- Contact:** Peggy Rader, College of Education and Human Development, rader004@tc.umn.edu, (612) 626-8782
Susan Ahn, University News Service, ahn@mailbox.mail.umn.edu, (612) 624-8038

HOW TO DEAL WITH MINNESOTA'S PROJECTED TEACHER SHORTAGES

MINNEAPOLIS / ST. PAUL--Fast-track training and two-year mentoring programs for new teachers would help relieve projected teacher shortages in Minnesota and should be implemented through state-mandated programs, according to a report to be released Friday by the College of Education and Human Development at the University of Minnesota. The report was commissioned by the Minnesota Department of Children, Families and Learning and will be introduced at one of the college's regular educational policy seminars: How to Deal with the State's Teaching Shortages. Based on an extensive survey, focus group discussions and individual interviews of school administrators throughout the state, the report confirms that the state faces shortages of about 5,000 teacher positions in the 2000-2001 school year. Minnesota districts are projected to replace 24,500 K-12 teachers by 2004.

Those shortages will be most acute in secondary school science, mathematics and technology, and in special education and English as a second language at all grade levels. Shortages of qualified teacher applicants are also acute in rural areas of the state.

The report emphasizes that districts not only are having trouble finding qualified teachers to hire, they are also having difficulty retaining them. To address that issue, the report recommends that every new teacher in the state should be required to participate in a formal mentoring program for at least two years. The report suggests that these programs should be developed at the school district level.

To address shortages where they are occurring, the report recommends that legislative funding--based on state, regional or district compacts--should be used to recruit, admit and prepare groups of teachers for licensure completion programs, fast-track cycles lasting between 12 and 18 months. Districts would have to demonstrate actual need through upcoming vacancies in order to participate, and compacts should encourage recruitment of minorities, career-changers, adult aides and paraprofessionals, the report says.

(more)

Education Policy Seminar
Page 2

The report also recommends that the state consider new rules and incentives making it easier to hire, on an emergency basis, non-traditional teachers to fill immediate teacher vacancies.

The mentoring programs should include opportunities for newly licensed teachers to earn credits toward a master's degree, provide opportunities for those teachers not yet licensed to gain licensure and commence mentoring no later than the first semester of the new teacher's first year of teaching.

An executive summary is available at www.coled.umn.edu/cpe/seminars.html. The entire report is available by calling Julie Rebeau at (612) 625-5078. □

What: 'Reinventing Medicine' author to speak at U
When: 7 p.m. Thursday, Oct. 7
Where: Ted Mann Concert Hall, 2128 4th St., Minneapolis
Who: Larry Dossey, M.D., (949) 494-8564
Contact: Teri Charest, Academic Health Center, (612) 624-4604

AUTHOR SPEAKS ABOUT NEW ERA IN MEDICINE, INCLUDING ALTERNATIVE CARE

MINNEAPOLIS / ST. PAUL--Intuition and spirituality will be an integral part of diagnosis in the next era of medicine, according to Dr. Larry Dossey, author of the book "Reinventing Medicine: Beyond Mind-Body to a New Era of Healing." He will discuss his theory at 7 p.m. Thursday, Oct. 7, in Ted Mann Concert Hall, 2128 4th St. S., Minneapolis, at the University of Minnesota.

In his book, Dossey describes spiritual tools such as prayer, dreams, coincidence and intuition as having measurable and profound effects on the healing process.

"Technological medicine is not enough," said Dossey. "People want their medical care grounded in spirituality. Healing has always been the common meeting ground between the physical and the spiritual."

Dossey has written eight books on the role of the mind in health and the role of spirituality in health care, including the New York Times bestseller "Healing Words." His stop in Minneapolis is part of a 16-city national tour. □

What: Transportation research forum
When: Tuesday, Oct. 12
Where: Humphrey Center, 301 19th Ave. S., Minneapolis
Contacts: Gina Baas, Center for Transportation Studies, (612) 626-7331
 Deane Morrison, University News Service,
 dmorris@mailbox.mail.umn.edu, (612) 624-2346

U OF M FORUM EXAMINES TRANSPORTATION, 'SMART GROWTH'

MINNEAPOLIS /ST. PAUL--Links between land use and transportation patterns will be examined from 8:30 to 11:30 a.m. Tuesday, Oct. 12, in the Cowles Auditorium of the University of Minnesota's Humphrey Center. "Travel Demand and Land Use," a research forum sponsored by the university's Center for Transportation Studies (CTS), will spotlight the roles of land use in transportation behavior and policies in the Twin Cities and Portland, Ore.

Highlights of the forum:

- 8:45-9:30 a.m. "Travel Behavior in the Twin Cities: Implications for Smart Growth." Gary Barnes, a research associate at CTS, and civil engineering associate professor Gary Davis will consider two questions: How does travel behavior differ in different parts of our region, and to what extent can these differences be attributed to land use rather than other factors? They will discuss the ways "smart growth," a set of planning ideals aimed at limiting low-density edge development, has been promoted as a cure for such urban ills as congestion and lack of nonauto modes of travel. Barnes and Davis will point out the paucity of research that isolates the role of land use relative to other factors in determining travel habits.
- 9:30-10:15 a.m. "Linking Land Use and Transportation in the Portland Region." Andy Cotugno, transportation director for Metro, the regional government for the Portland, Ore. metropolitan area, will speak about the evolution of state, regional and local efforts to link land use and transportation policies in the Portland area. Those efforts have included regulations, plans and funding priorities.
- 10:45-11:30 a.m. Reaction and panel discussion. Connie Kozlak, transportation systems planning and programming manager for the Metropolitan Council, will offer a response to the presentations. She will then join Barnes, Davis and Cotugno in a panel discussion moderated by CTS director Gerard McCullough.

For more information call Gina Baas at (612) 626-7331. □

What: Obituary
Who: Samuel Kirkwood
Contact: Deane Morrison, University News Service,
dmorris@mailbox.mail.umn.edu, (612) 624-2346

SAMUEL KIRKWOOD DIES; WAS AWARD-WINNING TEACHER AT U OF M

MINNEAPOLIS / ST. PAUL--Samuel Kirkwood, retired professor of biochemistry at the University of Minnesota's College of Biological Sciences, died Friday, Oct. 8, at his home in Hugo, Minn., of colon cancer. He was 79.

Kirkwood was born and raised in Edmonton, Alberta, and earned a bachelor's degree from the University of Alberta in 1942. He earned a master's degree (1944) and doctorate (1947) in biochemistry from the University of Wisconsin and also served in the Canadian armed forces during World War II.

After conducting research with the Canadian National Research Council and serving on the faculty of McMaster University in Hamilton, Ontario, Kirkwood joined the University of Minnesota in 1956 as associate professor of agricultural biochemistry.

Kirkwood was well known for research discoveries in the area of enzyme reaction mechanisms. He collaborated on a project that showed ruffed grouse can digest cellulose, an ability previously thought to be unique to ruminants.

But Kirkwood was best known for his teaching. Often cited by College of Biological Sciences graduates as their most memorable teacher, he received the university's Horace T. Morse-University of Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education in 1978. He was also instrumental in revitalizing the introductory biology program, which he took over in 1981. Last spring, the Biological Sciences Alumni Society endowed a teaching award to honor Kirkwood and another distinguished teacher from the college, the late Stanley Dagley.

Kirkwood retired from the university in 1987. He is survived by his wife, Carol; daughter Nancy (Don Tennent) of Albuquerque, N.M.; son, Duncan (JoAnn) of Eagan, Minn.; and granddaughters Jennifer and Hannah Tennent.

A memorial service will be held at 2 p.m. Saturday, Oct. 16, in the Cherrywood Room of the St. Paul Student Center on the university's St. Paul campus. The family requests that memorials be sent to the Stanley Dagley-Samuel Kirkwood Undergraduate Teaching Award, College of Biological Sciences, 123 Snyder Hall, 1475 Gortner Ave., St. Paul MN 55108, or to any charity. □

What: Congressional appropriation bolsters ovarian cancer studies at U
Who: Sundaram Ramakrishnan, Ph.D., (612) 626-6461
Contacts: Teri Charest, Academic Health Center, (612) 624-4604
Coleen Southwell, Cancer Center, (612) 626-1107

DEFENSE DEPARTMENT GIVES U \$2 MILLION FOR OVARIAN CANCER STUDIES

MINNEAPOLIS / ST. PAUL--Researchers at the University of Minnesota Cancer Center have received a four-year, \$2 million grant from the U.S. Army Medical Research and Materiel Command to study the role of angiogenesis (the growth of new blood vessels) in the development of ovarian cancer. What they learn will be key in the development of therapies to prevent ovarian cancer.

The grant will allow the researchers to investigate four things: the role of genetically engineered proteins--endostatin and angiostatin--in limiting the growth of new blood vessels to the tumor; the biology of ovarian cancer development; the design of new peptide molecules to inhibit blood vessel development; and the way ovarian cancer cells interact with cells in the abdominal wall.

Between one and two percent of women are at risk of developing ovarian cancer, the most aggressive and deadly of all gynecologic cancers. There are approximately 28,000 new cases in the United States each year, 80 percent of which occur in women over 50. Average survival is two years, though the average survival rate at the university is longer--more than five years after diagnosis.

Researchers believe that ovarian cancer risk is directly related to the repeated wounding and healing of ovarian cells during ovulation. Thirty percent of hens, for example, spontaneously develop ovarian cancer after they stop laying eggs, making them a natural model for this study.

Investigators at the University of Washington in Seattle will work with the University of Minnesota team, which is led by Sundaram Ramakrishnan. Ramakrishnan is an associate professor of pharmacology, obstetrics and gynecology, and is a member of the university's Cancer Center.

Congress appropriated the funds in 1998. This study is one of only five projects nationwide that were funded by that appropriation. □

What: Ann Cieslak named to direct U of M board of regents

When: October 8, 1999

**Contacts: Amy Phenix, University News Service,
phenix@mailbox.mail.umn.edu, (612) 625-8510
Patricia Spence, chair, Board of Regents, (612) 625-6300
Ann Cieslak, executive director, Board of Regents,
(612) 625-6300**

U OF M REGENTS SELECT NEW EXECUTIVE DIRECTOR

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents named Ann Cieslak to serve as the executive director and corporate secretary of the board, effective Oct. 8, 1999. The top position in the office of the board of regents, the executive director is responsible for all aspects of office administration and is the regents' staff liaison with university administration. For the past 18 months, Cieslak has been a policy and project assistant in the office.

"We are delighted with the selection of Ms. Cieslak," said Patricia Spence, chair of the board of regents. "She's a strategic thinker who brings good judgement, understanding and a wealth of experience with public boards to this position. The board has full confidence that Ann will be an inspiring and capable leader to help the regents move the university into the 21st Century."

Cieslak was named interim director following the resignation of Andrea Turner Sept. 17. Both Cieslak and Turner were finalists in a nationwide search the board conducted last spring to seek a replacement for the position.

"I am honored to have the opportunity to serve the regents, who act on behalf of the citizens of Minnesota to advance this great institution," Cieslak said. "Professionally and as a volunteer, I have spent my adult life encouraging citizen participation in decision-making. Staffing the community volunteers who sit on the board of regents is an incredible opportunity for me to use these skills to help them effectively lead the university."

Before coming to the university, Cieslak worked as legislative aide to former St. Paul City Council Member Bobbi Megard and directed a neighborhood nonprofit organization in St. Paul for seven years. A graduate of Manhattanville College in New York with a bachelor's degree in English, Cieslak has also earned a certificate in nonprofit management from the University of St. Thomas.

Cieslak lives in St. Paul and is a long-time volunteer in the St. Paul public schools. She currently serves on the board of the St. Paul League of Women Voters and is co-chair of Bel Canto Voices, a metropolitan girls choir. □

\What: Groundbreaking, U of M Architecture Building addition
Where: Architecture building, 89 Church St. SE, Minneapolis, MN 55455
When: 5 p.m. Friday, October 15
Contacts: Krista Bergert, CALA external relations, (612) 624-7808
 Thomas Fisher, dean, CALA
 Jim Thielman, University News Service, (612) 624-0214

NEW ARCHITECTURE HEAD, STUDENT COMPETITION, HIGHLIGHT U EVENT

William Conway, new head of the architecture department in the University of Minnesota's College of Architecture and Landscape Architecture (CALA), will be the featured speaker at 5 p.m. Friday, October 15, during the groundbreaking ceremony for a \$26.4 million addition and renovation to the CALA building. The event, Rendezvous with the U, will also feature a student competition to design a groundbreaking machine. Judging for the competition will occur earlier that day. The winning machine will be used in the groundbreaking ceremony at 6 p.m. outside the CALA building.

Conway, formerly associate professor of architecture at Iowa State University, will discuss his vision for the department of architecture and his idea for bridging the gap between the classroom and the profession in a lecture, "new constructions." The New Haven, Conn., native attended North Dakota State University and Yale University.

Construction on the addition is expected to be completed in 2001. The addition, designed by New York architect Steven Holl, will house design studios, faculty and administrative offices, a library, auditorium, gallery and gathering spaces. Minneapolis architect Vincent James is spearheading the renovation of the existing building, and Bryan Carlson of Minneapolis' Ellerbe Becket is the landscape architect. CALA's current facilities were designed to house 300 students. CALA now serves more than 700, with faculty, staff, students and research labs dispersed throughout the Twin Cities campus.

"The addition and remodeling of the building will bring the entire college together for the first time in its history," said Thomas Fisher, dean of the college. Fisher said the addition will house technology that will give students hands-on experience and aid professionals in delivering design ideas.

Holl's project will be the third in a series of university buildings designed by significant American architects. Frank Gehry designed the Frederick R. Weisman Museum, and Antoine Predock the University Gateway Center.

Funding for the 150,000-square-foot addition and renovation comes from several sources, including \$23.6 million from the 1998 Minnesota Legislature.

CALA is teaming with the American Institute of Architects Minneapolis chapter to sponsor the event. A reception following the groundbreaking will last until 8 p.m. □

www.umn.edu/urelate/news.html 10/13/99

media advisory

University News Service
6 Morrill Hall
100 Church St. SE
Minneapolis, MN 55455
612-624-5551



- What:** Announcement of major U of M fund-raising campaign
- Who:** President Mark Yudof, U of M mascots and other U of M leaders
- When:** Noon, Thursday, October 21
- Where:** Coffman Union Plaza (Rain site: Great Hall)
- Contacts:** Linda Berg or Martha Douglas, U of M Foundation,
(612) 624-3333
Amy Phenix, University News Service, (612) 625-8510

KICK OFF OF CAMPAIGN MINNESOTA

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof will present the details of Campaign Minnesota, the largest fund-raising campaign in the university's history, at noon, Thursday, Oct. 21, on the Coffman Union plaza. He will announce the campaign goal, the amount raised to date, and details about the campaign's key priorities.

The program includes:

- 12:00--Free lunch for the university community, with a performance by the University of Minnesota Marching Band.
- 12:30--Presentation of the campaign goals by Yudof, campaign co-chair Russ Bennett and Carlson School of Management student Scott Roethle.

As part of the presentation, mascots from all four university campuses will be lifted in a cherry picker to unveil the campaign's goal, followed by daytime pyrotechnics.

University deans will be present after the program to answer questions about their colleges' campaign priorities. □

UNIVERSITY OF MINNESOTA NOVEMBER STARWATCH

by Deane Morrison

Saturn reaches its peak brightness in November, when the huge but relatively slow planet concedes to Earth in the orbital race. If we're lucky, mid-month will bring a nice display of Leonid meteors, maybe even one to rival last year's spectacle. Also in mid-month, Mercury makes a rare transit across the sun's disk. Through it all, the night is bookended by the dazzling presences of Venus and Jupiter.

Still ruling the night, big and yellowish Jupiter leads Saturn and the knot of winter constellations into the evening sky and across the night heavens. On the 20th, try finding Jupiter just before sunset. First find the moon in the east, then look about four degrees (eight full moon widths) to the upper left. Jupiter is drifting westward as Earth speeds past it, but the king of planets will continue to dominate the night sky for months to come.

Saturn reaches opposition on the 6th; at this point, the Earth moves between the ringed planet and the sun, and Saturn is up all night, just like a full moon. The moment of opposition also marks the official passage of a planet from the morning to the evening sky. Saturn's rings, tilted at about 20 degrees, make a lovely sight through a telescope. The near presence of Jupiter steals some of Saturn's splendor, but it still outshines most stars.

Mars hangs over the post-sundown western horizon, dim but persistent. If it's hard to see, look on the 13th, just to the lower right of the crescent moon. Mars reaches perihelion on the 25th, when it comes within about 128 million miles of the sun. Its average distance from the sun is about 141 million miles. Mars reaches perihelion again in 2001 and 2003. In 2003 the planet will appear exceptionally bright because it will make its closest passes to the Earth and to the sun at almost the same time.

Rising at least three and a half hours before the sun, Venus sweeps away all competition. Watch the gorgeous planet close in on Spica, the brightest star in Virgo, during the last third of November. Venus begins the month much higher than Spica, but as the star climbs higher, the two objects pull closer. Venus passes Spica the morning of the 30th.

What may be November's most spectacular event will be visible only to solar astronomers with the means to observe the sun safely. The afternoon of the 15th, Mercury will graze the extreme north-northeastern section of the sun. Called a transit, this passage of an inner planet across the sun's face (as seen from Earth) is a rare event. For Mercury, it happens only 13 or 14 times in a century. (Transits of Venus are 10 times as rare.) The transit of Mercury will take about an hour,

What: U study on breast feeding and risk of leukemia
When: Embargoed by JNCI until 3 p.m. CDT Tuesday, Oct. 19
Who: Leslie Robison, M.D., (612) 626-2902 (out until Thursday, Oct. 21)
 Joseph Neglia, M.D., (612) 626-2778
Contact: Teri Charest, Academic Health Center, (612) 624-4604

BREAST FEEDING MAY PREVENT CHILDHOOD LEUKEMIA, U STUDY FINDS

MINNEAPOLIS / ST. PAUL--Breast-fed babies are less likely to contract childhood acute leukemia than their bottle-fed counterparts, according to a University of Minnesota Cancer Center study published this week in the Journal of the National Cancer Institute. The risk of leukemia was 21 percent lower for babies whose mothers reported having breast fed at least one month, and 30 percent lower for those breast fed more than six months.

Though smaller studies suggested breast feeding might reduce the risk of Hodgkin's disease, a type of lymphoma that may occur during childhood, this is the first to find a statistically significant link between breast feeding and prevention of leukemia, the most common childhood cancer. It afflicts about 2,500 American children each year and accounts for almost one-third of all childhood cancers in western countries.

"We have long known of breast feeding's health benefits in terms of protecting children from infection," said Dr. Les Robison, professor of pediatrics and principal investigator for the study. "Now we have evidence to suggest its immune-stimulating effects may provide another significant advantage--protection against cancer."

This national study of childhood acute lymphoid and myeloid leukemia is the largest of its kind ever undertaken. The researchers interviewed 2,200 mothers from across the United States whose children, ages one to 17 years, had been diagnosed with acute leukemia. They then conducted matching interviews with mothers of control children of similar age, race and geographic location.

Based on the data, the researchers concluded that children who were primarily breast fed for any length of time had a reduced risk of getting leukemia, but the longer the breast feeding continued during the first year of life, the greater the risk was reduced.

"Additional research is needed before we can firmly conclude a protective role for breast feeding, but if these results can be confirmed in further studies they will provide additional support for the recommendation of the American Academy of Pediatrics for longer-term breast feeding of infants," Robison said.

The National Cancer Institute and the Minnesota-based Children's Cancer Research Fund provided funding for this study. Dr. Joseph Neglia, associate professor of pediatric hematology and oncology, was a co-investigator in the study. Neglia and Robison are members of the university's Cancer Center. □

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centering on 2:40 p.m. CST. Through a properly fitted solar telescope, Mercury will appear as a minuscule dark dot only one two-hundredth of the sun's apparent diameter.

The moon will be new on the 8th and full on the 23rd. The full moon of November is known as the frosty moon or the beaver moon. The tie to beavers may arise from the activity of the animals in preparing their lodges for winter. For a sight to rival the full moon, try looking before dawn the mornings of the 3rd and especially the 4th, when waning crescent moons will appear near Venus.

Last year the Leonid meteors treated much of the world to a spectacular storm. Whether we'll see much activity this year remains to be seen. The Leonid meteors result from the burnup of dust grains left behind by Comet Tempel-Tuttle. Earth is expected to pass a mere 62,000 miles from the center of the dust cloud at around 8 p.m. CST on the 17th. Unfortunately, the meteors don't become visible until after midnight, when our part of the planet has rotated to face the incoming stream. The meteors will radiate from the Sickle of Leo, which rises a little more than six hours after sundown. Even so, we could be in for a nice tail end of the storm near midnight on the 17th or early the morning of the 18th, especially if the storm peaks a few hours later than predicted.

In November the Milky Way arches from east to west across the evening sky. The ribbon of light appears directly overhead for those at latitude 60 degrees north, a little south of overhead for those of us at lower latitudes. In the middle of the Milky Way, Queen Cassiopeia presides from her W-shaped chair. Just east of Cassiopeia is Perseus, and just west is the bright star Deneb in Cygnus, part of the Summer Triangle of stars that are pressing toward the western horizon. Slightly northeast of Saturn, the lovely Pleiades cluster enters the evening sky, presaging the start of winter.

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Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:

**Deane Morrison, University News Service, (612) 624-2346,
dmorris@mailbox.mail.umn.edu**

10/21/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

What: U's Program Against Sexual Violence (PASV) receives grant

Contacts: Roberta Gibbons, PASV, (612) 626-2929

Mike Nelson, University News Service, (612) 626-7701

PROGRAM AGAINST SEXUAL VIOLENCE PROGRAM AT U OF M AWARDED \$380,000

MINNEAPOLIS / ST. PAUL--The University of Minnesota's Program Against Sexual Violence has been awarded a two-year \$380,000 grant by the U.S. Department of Justice to enhance existing programs and increase services for students with disabilities. It is the largest grant awarded to the program since it was established in 1986.

The university's Program Against Sexual Violence provides crisis intervention and advocacy services to victims/survivors of sexual and domestic violence, harassment and stalking. The program recruits, trains and supervises volunteer peer advocates to staff a 24-hour crisis line and provide peer education training programs. Collaborating with University Police, Fairview-University Hospital and residence hall staff, the program has become a model for campus sexual violence programs across the country. On average, the program serves 160 clients each year.

"This grant will help expand services to victim survivors and greatly enhance our prevention efforts on campus," said PASV director Jamie Tiedemann. "We want to accomplish a major outreach for students, staff and faculty with disabilities who have experienced sexual or domestic violence." Tiedemann also expressed gratitude to congressman Martin Sabo who strongly supported the university's application for the grant.

To better serve students with disabilities, the program plans to install a TeleTypewriter, or TTY, phone line for the hearing impaired. The program will also develop a legal-advocacy program for victims filing court orders against perpetrators, provide sign language interpreters and expand sexual violence prevention programs for incoming freshmen.

For more information about the university's Program Against Sexual Violence, go to <http://www1.umn.edu/sexviol/> on the Web.

October is Domestic Violence Awareness Month. □

**What: U of M Immigration History Research Center (IHRC)
one of 'America's Treasures'**
**Contacts: Judith Rosenblatt, IHRC, (612) 627-4208
Mike Nelson, University News Service, (612) 626-7701**

U OF M IMMIGRATION HISTORY RESEARCH CENTER NAMED SIGNIFICANT CULTURAL HERITAGE PROJECT

MINNEAPOLIS / ST. PAUL--The University of Minnesota's Immigration History Research Center's project, "Documentation of the Immigrant Experience," has been named one of "America's Treasures" by Save America's Treasures, a public-private partnership between the White House Millennium Council and the National Trust for Historic Preservation.

The center's documentation of the immigrant experience is being highlighted at the National Preservation Conference in Washington, D.C., today, Wednesday, Oct. 20. The conference will continue through Oct. 24.

Created in 1965, the IHRC has collected and preserved a broad spectrum of documents pertaining to immigration to the United States and is recognized as one of the leading institutions nationally in the field of migration studies. In spring 2000 the center will relocate from St. Paul to the university's new Elmer L. Andersen Library on the Twin Cities campus/west bank.

Save America's Treasures was created to increase public awareness of the nation's threatened cultural heritage and to promote preservation of irreplaceable historical and cultural artifacts. First lady Hillary Rodham Clinton is honorary chair of the Millennium Committee to Save America's Treasures; Susan Eisenhower, granddaughter of President Dwight Eisenhower, and Richard Moe, President of the National Trust, are co-chairs.

For more information about the IHRC, go to www.umn.edu/ihrc on the Web. □

What: Homecoming, University of Minnesota-Twin Cities



When: Friday, Oct. 22, through Saturday, Oct. 30

Contacts: Homecoming Committee, (612) 242-8868 or (612) 483-4582
Mike Nelson, University News Service, (612) 626-7701

LAISSEZ LES BONS TEMPS ROULER—LET THE GOOD TIMES ROLL—HOMECOMING 1999

MINNEAPOLIS / ST. PAUL--The University of Minnesota-Twin Cities will celebrate Homecoming 1999 with an array of activities and festivities from Friday, Oct. 22, through Saturday, Oct. 30. This year's theme is Laissez Les Bons Temps Rouler—Let the Good Times Roll. Scheduled events include the crowning of royalty, a Homecoming pepfest and bonfire, the traditional Homecoming Parade down University Avenue and the football game vs. Purdue in the Metrodome. Here's a sampling:

- **Friday, Oct. 22**—Homecoming royalty candidates at soccer vs. Wisconsin, 7 p.m., St Paul campus. Men's hockey vs. North Dakota, 7:05 p.m., Mariucci Arena.
- **Saturday, Oct. 23**—Cosmic bowling, 8-11 p.m., Coffman Union.
- **Sunday, Oct. 24**—Raptor Center's fall open house, 11 a.m., St. Paul campus.
- **Monday, Oct. 25**—Lip Sync contest and food drive, 7 p.m., Wiley Hall.
- **Tuesday, Oct. 26**—Royalty cow milking, 4 p.m., St. Paul campus.
- **Wednesday, Oct. 27**—Lunch, bands, games and prizes, Superblock.
- **Thursday, Oct. 28**—Student Union Day, 9 a.m., Coffman Memorial Union.
- **Friday, Oct. 29**—Homecoming coronation, bonfire and pepfest, 7 p.m., "the pit" behind St. Paul Student Center.
- **Saturday, Oct. 30**—Harvest Bowl Farmer's Share Breakfast, 7-9:30 a.m., St. Paul Student Center Terrace Cafe. Parent's Brunch, 8-9 a.m., University Recreation Center. Annual Homecoming Day Parade, 9 a.m., starts at Sanford Hall (11th Avenue S.E. and University Avenue) and ends at Williams Arena (Oak Street and University Avenue). This year's Grand Marshall is board of regents chair Patricia Spence. Homecoming football game vs. Purdue, 11:10 a.m., Metrodome. First annual Homecoming chili feed, 2:30 p.m., Coffman Plaza. Homecoming Masquerade Ball, 8 p.m., Coffman Union Great Hall.

For a complete listing of Homecoming events and activities check the Homecoming home page at <http://www.umn.edu/cic/homecoming> or contact Tina Rovick Falkner at rovic001@tc.umn.edu or (612) 626-6919. □

What: New breast cancer study at U Cancer Center
Who: Tanya Repka, M.D., (612) 624-0123
 Jeffrey Miller, M.D., (612) 625-7409
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U INVESTIGATING NEW DRUG COMBINATION FOR METASTATIC BREAST CANCER

MINNEAPOLIS / ST. PAUL--University of Minnesota Cancer Center researchers are investigating a combination of two drugs, Proleukin™ (Interleukin 2 or IL-2) and Herceptin,™ that could enable the body's immune system to target and kill breast cancer cells.

Herceptin made news in September 1998, when the Food and Drug Administration approved it for the approximately 25 to 30 percent of metastatic breast cancer patients with tumors that over-express a protein called HER2/neu. Herceptin is used in combination with the chemotherapy drug paclitaxel, or it is used alone for patients who have had little success with chemotherapy.

Herceptin attaches itself to HER2/neu molecules, which are found on the surface of breast cancer cells. HER2/neu is responsible for signaling the cancer cells to reproduce. Herceptin blocks these signals, inhibiting the cancer's growth.

While Herceptin can be effective in shrinking the tumor, Dr. Jeffrey Miller and Dr. Tanya Repka in the university's Cancer Center believe that the tumor will suffer an extra hit by combining it with Proleukin. Proleukin boosts the number of the body's natural killer cells, which recognize and attach to Herceptin. The killer cells then release substances that make holes in the tumor cell membrane and cause the tumor cell to die.

During the seven-week clinical trial, Proleukin and Herceptin would replace the chemotherapy and Herceptin combination that is currently the standard treatment for metastatic or advanced breast cancer, in which HER2/neu is expressed on the surface. Repka says that while chemotherapy typically causes vomiting and hair loss, this new combination has shown only minor flu-like side effects. In early clinical trials, an increased risk of cardiac dysfunction was observed in women receiving Herceptin. This side effect can be potentially severe or life-threatening, but in most cases it can be managed with medication.

Patients enrolled in the trial will receive these medications free of charge. They will inject themselves with Proleukin each night before bed and will receive weekly infusions of Herceptin at the university's General Clinical Research Center.

Breast cancer patients interested in participating in the study should first consult their physician. Participants' tumors must over-express the HER2/neu protein, which a physician can determine. To learn more about the study call Juliet Gay, breast cancer studies nurse clinician, at (612) 625-2956.

Herceptin is a registered trademark of Genentech in San Francisco, and Proleukin is made by Chiron Therapeutics in Emeryville, Calif. The university's Cancer Center is a comprehensive cancer center as designated by the National Cancer Institute. □

Media note: Osborne will be available for interviews on Tuesday, Oct. 26, from 10:30-11:30 a.m. in Room 645 of Heller Hall on the west bank of the Twin Cities campus/Minneapolis. Call (612) 625-3421 to arrange an interview.

What: Burl Osborne to deliver 1999 Silha Lecture
When: 12:15 p.m. Tuesday, Oct. 26
Where: Cowles Auditorium, Humphrey Institute
Contacts: Elaine Hargrove-Simon, Silha Center, (612) 625-3421
Mike Nelson, University News Service, (612) 626-7701

DALLAS MORNING NEWS PUBLISHER BURL OSBORNE TO GIVE SILHA LECTURE

MINNEAPOLIS / ST. PAUL--Veteran journalist Burl Osborne, publisher of the Dallas Morning News and former managing editor of the Associated Press (AP), will deliver the 1999 Silha Lecture at 12:15 p.m. Tuesday, Oct. 26, in Cowles Auditorium at the University of Minnesota's Humphrey Institute on the Twin Cities campus/west bank. The lecture is sponsored by the Silha Center for the Study of Media Ethics and the Law.

During Osborne's presentation, "Media Accountability: A Discussion with Burl Osborne," he will discuss media coverage of society's spontaneous violence, broadcast news' preoccupation with live, nonstop coverage, the challenges to newspapers posed by the Internet and ethical concerns in covering violent news events.

Osborne is president of the publishing division of Dallas-based A.H. Helo Corp., which owns numerous major market television stations and newspapers, including the Dallas Morning News. He joined Belo in 1980 as the executive director after a 20-year career with the AP. He has a journalism degree from Marshall University and an MBA from Long Island University. Osborne also is a graduate of the Harvard Business School Advanced Management Program.

He received the National Press Foundation George Beveridge, Jr., Award for Editor of the Year in 1992, and the Pat Taggart Texas Newspaper Leader of the Year Award in 1993. Osborne has been executive and member of numerous major news organizations, including the executive committee of the Associated Press Board, the Newspaper Association of America, the American Society of Newspaper Editors, the American Press Institute, the Advisory Committee for the Nieman Foundation and the Pulitzer Prize Board.

Osborne's lecture will be the first since the recent passing of Otto Silha, former chair of Cowles Media. Silha was the primary benefactor of the Silha Center, which was established in the School of Journalism and Mass Communication in 1984.

The lecture is free and open to the public. □

What: U of M President Yudof to visit Duluth
When: Wednesday, Oct. 27
Where: Duluth
Contacts: Ann Kirby McGill, Institutional Relations, (612) 624-0821
Susan Latto, University of Minnesota-Duluth, (218) 726-8830

U OF M PRESIDENT MARK YUDOF TO VISIT DULUTH OCT. 27

MINNEAPOLIS /ST. PAUL--University of Minnesota President Mark Yudof will meet with community leaders and University of Minnesota-Duluth faculty, students and staff when he visits Duluth Wednesday, Oct. 27.

Yudof, the 14th president of the university, has visited more than 90 Minnesota cities since taking office in July 1997. In his visit to Duluth, Yudof will be accompanied by wife Judy and UMD Chancellor Kathryn Martin as he visits the Chester Park Lab School and tours UMD facilities and meets with UMD faculty, students and staff.

Highlights of Yudof's itinerary:

- 11 a.m.--Visit Chester Park Lab School and read to the children.
- 2:30 p.m.--Tour UMD Library construction site.
- 3 p.m.--Tour the Digital Imaging Lab.
- 3:15 p.m.--Participate in faculty roundtable at Griggs Center.
- 4:15 p.m.--Meet with students in room 403 Humanities Building.
- 5:30 p.m.--Attend UMD Alumni/Faculty/Staff/Student reception at Tweed Museum. □

What: International association declares sexual rights
Who: Eli Coleman, Ph.D., (612) 625-1500
Contact: Amy Johnson, Academic Health Center, (612) 625-2640

WORLD ASSOCIATION FOR SEXOLOGY DEVELOPS DECLARATION OF SEXUAL RIGHTS

MINNEAPOLIS / ST. PAUL-- Dr. Eli Coleman, director of the University of Minnesota's Program in Human Sexuality and president of the World Association for Sexology, has announced the association's Declaration of Sexual Rights in order to further promote sexual health and protect the sexual rights of everyone.

The association has been developing the declaration since 1997 and recently announced the 11 sexual rights at its international conference in Hong Kong. The declaration includes the rights to sexual freedom, equity and privacy.

"By creating these sexual rights, we are recognizing that there are particular sexual rights violations occurring around the world," said Coleman. "Health professionals must recognize they have duties and responsibilities to insure that these sexual rights are established and maintained."

According to Coleman, sexual health is a basic human right. He says the association will work to enact the rights in health policies and promote the declaration to the United Nations.

Since its founding in 1978, the World Association for Sexology (WAS) has worked to promote sexual health and sexual rights and to further the understanding and development of sexology throughout the world. With approximately 100 member organizations and numerous individual memberships representing more than 35 countries in Europe, Asia, North and South America and Australia, WAS brings individuals and organizations together to share scientific information, form networks and promote international and intercultural exchange. □

What: Lecture on Native American Spirituality and Healing
When: 8:30 a.m. Thursday, Oct. 28
Where: Room 150, Tate Lab of Physics
Contacts: Sandra Turpin, Equal Opportunity in Graduate Studies,
turpi002@tc.umn.edu, (612) 625-6858, Bob San, University News
Service, bsan@mailbox.mail.umn.edu, (612) 624-4082

NATIVE AMERICAN SPIRITUALITY AND HEALING TOPIC OF U OF M LECTURE

MINNEAPOLIS /ST. PAUL--Arvol Looking Horse, a prominent Lakota spiritual leader and 19th Generation Keeper of the White Buffalo Calf Pipe for the Lakota, Dakota and Nakota Nations, will make a presentation on Native American Spirituality and Healing from 8:30 a.m. to 9:45 a.m. Thursday, Oct. 28, in room 150 of the Tate Lab of Physics on the University of Minnesota's east bank campus.

Drawing on his experiences as one of the first Lakota spiritual leaders to perform healing ceremonies within hospital facilities, Looking Horse will talk about the return to natural medicines and how indigenous practices have been interwoven with modern medicine. As the Keeper of the Pipe, Chief Looking Horse is responsible for maintaining and nurturing the spiritual and cultural survival and identity of the Sioux Nation.

A central figure in world struggles for peace and human rights, Looking Horse has served as a representative of indigenous peoples to the United Nations. He has worked for the repatriation of sacred bundles and human remains, as well as for implementation of the Freedom of Religion Act of 1978, allowing indigenous peoples to practice their ceremonies openly. Looking Horse is a member of the Society for World Peace and founder of World Peace and Prayer Day.



What: Open house for Norwegian children's literature exhibit
When: 1-4 p.m. Sunday, Nov. 28
Where: 4th floor, Wilson Library, west bank
Contact: Deane Morrison, University News Service, (612) 624-2346

U OF M HOSTS OPEN HOUSE FOR NORWEGIAN CHILDREN'S LITERATURE FANS

MINNEAPOLIS /ST. PAUL--The University of Minnesota and the Royal Norwegian Consulate General, together with the Sons of Norway, are sponsoring "Trolls, Mrs. Pepperpot, and Beyond: Celebrating Norwegian Children's Books," a traveling exhibit by Capital Children's Museum in Washington, D.C. This largest exhibition on Norwegian children's literature ever to tour North America interweaves the development of Norwegian children's literature with the history of Norway. It can be seen through Jan. 9, 2000, on the 4th floor of Wilson Library on the west bank of the University of Minnesota campus in Minneapolis. The exhibition is free.

As a special event while the display is here, Minnesota's Sons of Norway organization invites the public for a Family Day from 1 to 4 p.m. Sunday, November 28, in the exhibit area. Lodge members will provide programming.

Exhibit hours are weekdays 10 a.m. to 8 p.m., weekends noon to 5 p.m. The library is closed on University of Minnesota holidays. For more information call the Center for Scandinavian Studies, (612) 625-3388, or the University Children's Literature Collection, (612) 624-4576.

media advisory

University News Service
6 Morrill Hall
100 Church St. SE
Minneapolis, MN 55455
612-624-5551

What: Yudof announces sanctions on men's basketball program
When: 2:45 p.m. Today, Tuesday, October 26
Where: 238 Morrill Hall, Twin Cities campus/Minneapolis
****Room 238 is not accessible until 2:30. Media arriving prior to 2:30 should go to Room 6.*
Who: Mark Yudof, president, U of M
Mark Dienhart, director, Men's Athletics
Dan Monson, head coach, Men's Basketball
Contact: University News Service, (612) 624-5555

U OF M PRESIDENT TO SANCTION MEN'S BASKETBALL PROGRAM

MINNEAPOLIS / ST. PAUL--At a press conference today, University of Minnesota President Mark Yudof will announce self-imposed sanctions on the men's basketball program in response to allegations of academic misconduct in that program. □

- What:** Naming of the Gateway building
Who: Come find out
When: 1:30 p.m. Friday, Oct. 29
Where: U of M Gateway building, Walnut Street entrance
 (Rain site: inside Walnut Street entrance)
Contacts: Dan Saftig, Minnesota Medical Foundation, (612) 626-5378
 Susan Ahn, University News Service, (612) 624-8038

UNIVERSITY WELCOMING CENTER TO BE OFFICIALLY NAMED

MINNEAPOLIS / ST. PAUL--At 1:30 p.m. Friday, Oct. 29, the University of Minnesota Marching band will lead the procession of members of the class of 1949, who are celebrating their 50th class reunion during Homecoming festivities, university officials and special guests from the Radisson Hotel to the Gateway building for its official naming ceremony.

The new name of the building was chosen to honor a well-known and generous alumnus of the university. "This is a tremendous honor for the University of Minnesota," said President Mark Yudof. "We are moved and delighted by [the donor's] generosity."

Three hundred people are expected to be present at the unveiling of the building's name plate honoring the special guest.

The University Gateway, a 230,000-square-foot building being built on the site of Memorial Stadium, promises to be a landmark building on the University of Minnesota campus. It will be a place where alumni, visitors, students and their families can begin their visits. The building will include heritage galleries, a great room, a memorabilia shop, meeting space and parking. It will be a place for the university to tell its stories of achievement and to honor its finer teachers, researchers, alumni, artists, athletes, philanthropists and leaders. It will also be home to the University of Minnesota Alumni Association, the University of Minnesota Foundation and the Minnesota Medical Foundation. The University of Minnesota board of regents and other university offices also will call the University Gateway home.

The process of moving offices and people into the Gateway building has already begun. The building is expected to be complete in February 2000.

Media can photograph the building's new sign along with the honored guest in front of the building at Oak Street and Washington Avenue immediately following the ceremony. □

What: Ceremonial closing of Coffman Union
When: 3:00 p.m. Thursday, Oct. 28
Where: Coffman Union Plaza (Rain site: Fireplace Lounge)
Contacts: Maggie Towle, director, Coffman Union, (612) 625-4665
 Susan Ahn, University News Service, (612) 624-8038

COFFMAN UNION CLOSING FOR RENOVATION, TIME CAPSULE TO BE OPENED

MINNEAPOLIS / ST. PAUL--A time capsule from the 1970's renovation of Coffman Union will be opened at the union's closing ceremony at 3:00 p.m. Thursday, Oct. 28, on the west side of the Coffman Union Plaza. McKinley Boston, vice president of student development and athletics, will speak at the ceremony.

The renovation of Coffman Union includes adding more student-centered services, such as a 24-hour computer lab; walk-up internet kiosk stations; a bookstore complete with a coffee shop, satellite financial aid, student employment and registrar services; both social and quiet lounges and study space; a food court with a wide variety of choice; and expanded student organization office space. Funding for the union includes:

- \$10.8 million from the university
- \$37.5 million from student services fees
- \$ 7.5 million from Coffman's post-renovation revenues
- TOTAL= \$55.8 million total attributable costs

Michael Holland, CMU Board President, along with Regent Jessica Phillips, union director Maggie Towle and student service fees committee member Sabeen Altaf will take part in a ceremonial ground breaking for the new facility, which is associated with the Riverbend Commons project.

Riverbend Commons is an \$84.7 million, three-phase project that will include student housing, underground parking and improved access to the Mississippi River. The entire project will be funded by the university through parking and housing revenue.

Phase I of the project, expected to be completed by fall 2000, will include 225 rooms of new student housing and a new six-level underground parking facility with approximately 1,700 spaces. Phase I will also include East River Road upgrades, pedestrian connections, plaza landscaping and new utility services. Phase II will include improvement to Washington Avenue and the renovation of the Coffman Memorial Union plaza. Phase III will include the construction of pedestrian bridges over Delaware Street and the possible addition of 300 parking spaces. □

What: U to open two medical time capsules dated 1911 and 1931
When: Noon, Thursday, Oct. 28
Where: Moos Plaza on Washington Ave. and Union St.
Who: John Eyler, Ph.D., (612) 624-5921
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U MEDICAL TIME CAPSULES HIGHLIGHT GROUNDBREAKING, BEAUTIFUL U

MINNEAPOLIS / ST. PAUL--Two medical time capsules, dated 1911 and 1931, will be opened at the University of Minnesota at noon Thursday, Oct. 28, on Moos Plaza at Washington Avenue and Union Street. The event is part of a groundbreaking ceremony for the university's new Molecular and Cellular Biology Building, which is a highlight of this year's Beautiful U celebration.

Demolition crews found the time capsules in the cornerstones of the Millard and Owre buildings. The Owre, Millard and Lyon complex is being torn down to make way for the Molecular and Cellular Biology Building.

University President Mark Yudof will open the time capsules. Frank Cerra, senior vice president for health sciences, and Al Michael, dean of the Medical School, will join him to remove and discuss the contents. It will be the first time anyone has seen the items since they were buried.

John Eyler, head of the history of medicine department, said there was great debate about the quality of medical education in 1911. A report issued by the Carnegie Foundation in 1910 strongly criticized 100 of the nation's 165 medical schools. However, Dr. Abraham Flexner, who wrote the report, praised Minnesota as "perhaps the first state in the Union that may fairly be considered to have solved the most perplexing problems connected with medical education and practice."

Private funding for medical education also evolved in 1911, Eyler said, when the Rockefeller Foundation's General Education Board began giving million-dollar grants to a select group of medical schools. "It was also a time when basic research was developing in medical schools," Eyler said. "The hottest area was infectious disease, especially as it related to surgical infection."

University officials will break ground for the new building after the time capsules are opened. □

What: U of M Law School capital campaign kick-off
When: 4:30 p.m. Friday, Oct. 29
Where: Auerbach Commons, Law School
Contacts: Terri Mische, Law School, (612) 625-6584
Mike Nelson, University News Service, (612) 626-7701

U LAW SCHOOL CAPITAL CAMPAIGN AIMS TO RAISE \$30 MILLION

MINNEAPOLIS / ST. PAUL--The University of Minnesota Law School will announce the kick-off of its capital campaign at 4:30 p.m. Friday, Oct. 29, in Auerbach Commons on the plaza level of the Law School, 229 19th Ave. S., on the west bank campus.

The goal of the campaign is to raise \$30 million during the next five years to enhance scholarship, library, clinic and technology endowments; buildings and curriculum; and faculty development.

The event will also feature the unveiling of a model rendering of the Law School building addition expected to be complete by August 2000.

The Law School's campaign coincides with "Campaign Minnesota," an unprecedented fund-raising effort announced by university President Mark Yudof Oct. 21. The \$1.3 billion campaign is among the largest ever for an American public university. □

Who: Donald Wright
What: Outstanding Achievement Award
When: 6 p.m. Tuesday, Nov. 2
Where: Eastcliff, 176 Mississippi River Blvd., St. Paul
Contact: Jim Thielman, University News Service,
thielman@mailbox.mail.umn.edu, (612) 624-0214

DONALD WRIGHT TO RECEIVE U OF M OUTSTANDING ACHIEVEMENT AWARD

Donald Wright, former president and chief executive officer of the Los Angeles Times, will receive an Outstanding Achievement Award from the University of Minnesota at 6 p.m. Tuesday, Nov. 2, at Eastcliff, home of university president Mark Yudof, 176 Mississippi River Blvd., St. Paul. The award recognizes former students who have attained unusual distinction in their professions, or in public service. Recipients also must have demonstrated outstanding achievement and leadership on a community, state, national or international level.

Wright graduated from the University of Minnesota's Institute of Technology in 1957 with a bachelor's degree in mechanical engineering; a year later earned his degree from the university's Carlson School of Management. During a 20-year career at the Minneapolis Star and Tribune Co., he gained national recognition automating the newspaper production process, including labor negotiations associated with the loss of jobs through automation. He eventually oversaw New York Newsday's transition to automation.

He was promoted to president and CEO of the L.A. Times in 1982, and introduced the paper's minority education training program a year later. In 1987 he became senior vice president of Times Mirror and was responsible for all the company's broadcast, cable television and Eastern newspapers. He returned to the L.A. Times in 1997 and retired this year. □

Who: Vernon Heath
What: Outstanding Achievement Award
When: 6 p.m. Tuesday, Nov. 2
Where: Eastcliff, 176 Mississippi River Blvd., St. Paul
Contact: Jim Thielman, University News Service,
thielman@mailbox.mail.umn.edu, (612) 624-0214

VERNON HEATH TO RECEIVE U OF M OUTSTANDING ACHIEVEMENT AWARD

MINNEAPOLIS/ST. PAUL -- Vernon Heath, owner and chair of Rosemount Office Systems, Inc., and co-founder of Rosemount Engineering, will receive an Outstanding Achievement Award from the University of Minnesota at 6 p.m. Tuesday, Nov. 2, at Eastcliff, home of university President Mark Yudof, 176 Mississippi River Blvd., St. Paul. The award recognizes former students who have attained unusual distinction in their professions or in public service. Recipients also must have demonstrated outstanding achievement and leadership on a community, state, national or international level.

Heath graduated from the University of Minnesota in 1950 with an accounting degree in what is now the Carlson School of Management. In 1951 he became business manager of the university's aeronautical research laboratory in Rosemount. From 1968 to 1991, He helped Rosemount Engineering grow from a business housed in a converted chicken factory to a billion-dollar business with about 4,000 employees. In 1969 Neil Armstrong walked on the moon carrying Rosemount oxygen, pressure and temperature sensors.

Heath was also involved with the Courage Center in Golden Valley, and co-chaired the center's \$6 million fund drive. He was inducted into the Minnesota Business Hall of Fame in 1984 and retired from Rosemount Engineering in 1994. He then purchased Rosemount Office Systems, which he co-founded in 1966. □

What: U hosts arts benefit to aid Turkish earthquake victims
When: Wednesday, Nov. 10
Where: Weisman Art Museum, U of M Twin Cities campus
Contacts: Nina Shepherd, Institutional Relations, (612) 624-1841
Gulin Oz, Turkish American Student Association, (612) 626-4227

U OF M SPONSORS BENEFIT TO AID TURKISH EARTHQUAKE VICTIMS

MINNEAPOLIS / ST. PAUL--The University of Minnesota will host a public arts benefit to raise money for students affected by last summer's earthquake in Turkey beginning at 7:30 p.m. Wednesday, Nov. 10, at the Weisman Art Museum on the university's Minneapolis campus.

The earthquake, which killed more than 17,000 people, injured 50,000 and left more than 600,000 homeless, also caused extensive damage to Turkish schools and universities. Proceeds from the benefit will aid students who attend Bosphorus University in Istanbul and Middle East Technical University in Ankara who have lost families and homes in the quake.

The benefit will feature a silent auction of paintings, textiles and sculptures donated by local and national Turkish and American artists, music and poetry performances and personal accounts of the earthquake from survivors living in the Twin Cities. Items for sale will also include signed books by internationally acclaimed Turkish painter/photographer Burhan Dogancay.

The event is the brainchild of Gulin Oz, a fifth-year graduate student in biochemistry and member of the university's Turkish American Student Association, and David Okar, a research associate in biochemistry and co-founder of Minneapolis-based Art Temple. Oz was visiting her hometown in Turkey this summer when the quake hit. "The scope of Turkey's devastation and suffering is hard to imagine, though Americans were among the first people in the world to offer support," said Oz. "We hope the benefit will not only help students around the world, but raise awareness of the art and culture of Turkish people."

"Minnesotans are unfailing in their generosity and concern for others in times of crisis," said university associate vice president and event co-organizer Bob Kvavik. "The university has a long tradition of working with universities around the world in times of trouble as well as prosperity. Bringing our community's enormous talent and energy to bear on the tragedy in Turkey is embedded in our values and mission as an international research university."

The event is co-sponsored by Art Temple and Minneapolis-based Eat Bugs Art Gallery. The suggested donation is \$15.



What: U of M students construct golf hole for Mall of America
When: 3 to 6 p.m., Thursday, Nov. 4
Where: Kaufert Lab of Forest Products and Wood Science,
2004 Folwell Ave., U of M Twin Cities Campus/St. Paul
Contacts: Nina Shepherd, Institutional Relations, (612) 624-1841
Deane Morrison, University News Service, (612) 624-2346

U OF M STUDENTS BUILD MINIATURE GOLF COURSE HOLE FOR MALL OF AMERICA

University of Minnesota students will wield power drills, paint brushes, hack saws and golf clubs Thursday, Nov. 4, as they construct part of a miniature golf course to be on display at the Mall of America. The students will be at work between 3 and 6 p.m. in the wood shop of Kaufert Lab of Forest Products and Wood Science, 2004 Folwell Ave., on the university's Twin Cities campus/St. Paul. The project is part of a fund-raising effort on behalf of the American Epilepsy Foundation.

The university's 5-by-17-foot hole will require golfers to navigate a forest and house designed by student volunteers in the university's Forest Products Society. Pat Huelman, associate professor of wood and paper science, directed the project and will be on hand Thursday as students put the final touches on the project. Huelman can be reached at (612) 624-1286.

What: Law School alum Bob Kommerstad gives school \$1 million

**Contacts: Terri Mische, Law School, (612) 625-6584
Mike Nelson, University News Service, (612) 626-7701**

FORMER U LAW, SOUTH HIGH GRADUATE GIVES LAW SCHOOL \$1 MILLION

MINNEAPOLIS / ST. PAUL--Bob Kommerstad, founder and chair of Provident Investment Counsel in Pasadena, Calif., and 1952 graduate of the University of Minnesota Law School, has committed to donating a \$1 million gift to the Law School. The gift will be used to establish the Kommerstad Business Law and Entrepreneurship Center.

Kommerstad is director and founder of 1st Business Bank (now Mellon) in Los Angeles, and is currently chair of the National Board of Big Brothers/Big Sisters of America. He has an undergraduate degree from the College of St. Thomas and is a graduate of South High School in Minneapolis, where he created and funded the school's first student investment fund.

After graduating from law school, Kommerstad served as a captain in the Judge Advocate General's Department of the U.S. Air Force. He is admitted to the U.S. Tax Court and the U.S. Supreme Court, and serves on the board of advisors to UCLA's Anderson Graduate School of Business.

In announcing the \$1 million endowment and the establishment of the Kommerstad Center, Law School dean E. Thomas Sullivan commented "this is a wonderful gift that will permit the Law School to launch forward in strategic research, including the establishment of a new law journal, teaching and grant making to encourage a more focused emphasis on the study of law."

Kommerstad resides in Bradbury, Calif. □

What: U discovery key to understanding serious birth defect

Who: Elizabeth Ross, M.D., (612) 626-2499

Contact: Teri Charest, Academic Health Center, (612) 624-4604

BETTER MOUSE MODEL KEY TO UNDERSTANDING NEURAL TUBE DEFECTS

MINNEAPOLIS / ST. PAUL--A strain of Crooked tail (Cd) mice bred by University of Minnesota researchers may help unlock the genetic secrets of neural tube defect (NTD), one of the leading causes of infant mortality. The mice closely mimic humans in the appearance of NTD as well as in their response to folic acid, which is known to reduce the incidence of NTD. The research finding appears in the November issue of *Human Molecular Genetics*.

NTD occurs when the neural tube, containing cells that eventually form the brain and spinal cord, fails to seal during fetal development, causing nerve tissue to spill out from either the skull area, a condition called anencephaly, or the backbone, a condition called spina bifida. NTD is believed to affect one in 2,000 births, though it may be higher because accurate counts are not kept in the United States. Anencephaly victims are missing large portions of nerve tissue at birth and die within hours.

The causes of NTD are complex and include genetic predisposition and environmental factors. Folic acid supplements have been shown to reduce the recurrence of NTD as much as 70 percent in mothers with a family history, but it's not known why.

"In producing an animal model that closely parallels the clinical experience of humans, we hope to better understand how folic acid works to prevent NTD," said university neurologist Elizabeth Ross, who directed the research. "Better understanding could lead to more precise ways of predicting its occurrence and tailoring preventative steps for families at risk. Someday we may be able to look at a gene profile to determine whether a family will benefit from folic acid or would be better served by another supplement."

The Cd mouse carries a gene mutation that leads to a crooked tail and an unusually high risk of NTD. It is the first animal model to respond to folic acid diet supplements in the same way humans do. This closer parallel to human characteristics should give scientists a better chance to unravel the biochemical and genetic mysteries surrounding NTD.

Studies on the Cd mice have already answered one question that had been puzzling scientists: Does folic acid reduce the incidence of NTD births by "rescuing" NTD-affected embryos or by promoting their early death? "Our data clearly show folic acid supplements rescue embryos from early lethality," Ross said.

The next step for Ross is to identify the specific Cd gene, which may help explain the complex genetic factors leading to NTD, particularly anencephaly. Her team has narrowed the search to a very specific "address" on mouse chromosome 6, and they hope to identify the gene within the year. Then it's a matter of determining whether that same gene is involved in human families affected by NTD. □

What: Link between timing proteins in worms, higher animals
Who: Ann Rougvie, genetics, cell biology and development, (612) 624-4708
Contact: Deane Morrison, University News Service, (612) 624-2346

U OF MINNESOTA STUDY FINDS LINK BETWEEN TIMING OF DEVELOPMENT, CIRCADIAN RHYTHMS

MINNEAPOLIS / ST. PAUL--Working with the nematode worm *C. elegans*, University of Minnesota researchers have found that a protein involved in timing the development of larval worms into adults bears similarities to fruit fly and mammalian proteins involved in timing of circadian rhythms. This is the first molecular connection to be found between the worm timing mechanism, which is important in short-term molting cycles, and well-known circadian rhythms, such as the wake/sleep cycle, found in higher animals. The work will be published in the Nov. 5 issue of *Science*.

The study arose from a larger effort to learn how the onset of puberty and other developmental events are timed, said Ann Rougvie, the corresponding author of the study.

"Puberty happens only after many years of life, and there must be mechanisms to trigger that event at the right time," said Rougvie, an associate professor of genetics, cell biology and development at the university. "It's not easy to sort out its mechanism. Another example is the development of the eye and the brain. In order for an animal to see properly, eye and brain development must be synchronized so that the right nerve connections are made early on. These mechanisms aren't accessible in most higher organisms, so we turn to simpler organisms for clues.

"Timing is something you can't see. I find the study of timing fascinating for that reason."

The worm gene, *lin-42*, belongs to a class of worm genes controlling the relative timing of several events that occur after the egg has hatched into a larva. Mutations in *lin-42* lead to premature production of the adult form of the worm's hypodermis, or skin. This is one event in the final molting process. (The worm performs four molts as it progresses from larva to adult.)

The researchers discovered that the protein encoded by *lin-42* is very similar to proteins found in insects and mammals. Those proteins, collectively called PERIOD, or PER, proteins, have been found in fruit flies, mice and humans. Their presence is linked to the ability of animals to carry on a more or less daily cycle of activity, both on the behavioral level and the cellular level. Fruit flies with mutations in their PER genes go through activity/rest cycles of longer or shorter duration than the 24-hour rhythm of normal flies.

The stretches of PER proteins similar to *lin-42* protein are known to guide interactions between PER proteins and other proteins inside the cells of insects or mammals. Therefore, said Rougvie, one question she intends to pursue is to find out if the *lin-42* protein interacts with other proteins, and if so, which ones and to what effect.

A second line of inquiry concerns the molecules known as messenger RNA (mRNA). These, as their name implies, are the molecules that carry instructions from genes to the cellular machinery that does the genes' bidding. It is known that, at least in fruit flies, the amount of mRNA from PER genes oscillates with a 24-hour rhythm. The amount of mRNA from the *lin-42* gene also oscillates, but with a rhythm that is not daily. Rather, its rhythm is tied to the six-hour molting cycles of the worm.

"We don't know why the mRNA is synchronized with the molting cycle or what would happen if it didn't oscillate," said Rougvie.

All these experiments will help sort out the genetic and biochemical mechanisms behind the worm's ability to time its development so that all the events are properly synchronized and happen at the right times. The similarities between its *lin-42* protein and circadian rhythm proteins in insects and mammals may be the result of evolutionary conservation, Rougvie said. That is, it's possible these proteins were related in the evolutionary past, but they diverged somewhat in structure as they adapted to different timing mechanisms in different organisms.

Rougvie credits the work of two graduate students, Mili Jeon and Heather Gardner, in completing this study. Technicians Eric Miller and Jodie Deshler also contributed. All five are authors of the paper. The work was supported by the National Institutes of Health. □

**Embargoed by the American Public Health Association until 7 p.m. CST
Wednesday, Nov. 10**

What: Analysis of alcohol service to drunken patrons
Where: Sheraton Chicago Hotel and Towers
Who: Alexander Wagenaar, Ph.D., (612) 327-6128 (cell); (612) 624-8370
Traci Toomey, Ph.D., (312) 464-1000 (Chicago); (612) 626-9070
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA STUDIES TAKE STEP TOWARD IMPROVING ALCOHOL REFUSAL

MINNEAPOLIS / ST. PAUL--More than two-thirds of bar patrons who acted severely intoxicated continued to be served alcoholic beverages despite laws prohibiting such sales, according to University of Minnesota studies. Researchers will present and analyze their findings at the American Public Health Association meeting in Chicago Wednesday, Nov. 10.

The researchers' ultimate goal is to understand what kind of interventions will end alcohol sales to intoxicated patrons. To do that, they first had to determine whether servers recognize obvious signs of intoxication and what intervention tactics they use when encountering an apparently intoxicated patron.

Three men, ages 33, 34 and 44, tried to enter 24 Minnesota bars 68 times while acting severely inebriated. They were denied entrance five times. When allowed inside, they proceeded to order a drink but were immediately denied 20 times. Of the 43 times that they were served, they were allowed to order a second drink 23 times, but were denied 20 times. Data from the first phase of the study was reported in the July/August issue of Public Health Reports.

The study was repeated in a larger sample of 336 bars, restaurants, liquor stores and grocery stores. Seventy-nine percent (267 establishments) sold alcohol to buyers showing obvious signs of intoxication.

"What this tells us is that there is an urgent need for additional enforcement of laws prohibiting sales to intoxicated patrons and fail-safe ways for servers to deny service," said Alexander Wagenaar, professor of public health and principal investigator of the study. "Intoxicated bar patrons are at very high risk for causing alcohol-related injury to themselves and others in fights, assaults, shootings and traffic crashes."

The servers who refused to serve the men usually refused them directly with no excuses. The second most common response was to offer a nonalcoholic beverage. Others used caring statements such as "Customers are part of our family." The minority of establishments that were following the law often used polite and effective techniques of refusing alcohol.

The majority of establishments served alcohol despite the patron showing obvious signs of intoxication. In some cases servers did not even look at the customer, and therefore may not have noticed their demeanor. In other cases, however, it was obvious the servers recognized that the men were drunk, stating, "I'll just give you one," or, "Have you been drinking all day?" Even after making clear they knew the patrons were intoxicated, they served the men.

Wagenaar and colleagues will continue to work on developing means to help establishment owners and managers prevent sales to intoxicated patrons and on identifying the best methods for state and local law enforcement to ensure current laws are followed.

This study was funded by a grant from the Robert Wood Johnson Foundation in Princeton, N.J. □

What: Board of Regents November meeting agenda
When: Wednesday-Friday, Nov. 10-12
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contacts: Amy Phenix, (612) 625-8510, phenix@mailbox.mail.umn.edu
Mike Nelson, (612) 626-7701, mnelson@mailbox.mail.umn.edu

U OF M REGENTS HOLD MONTHLY MEETING

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents will hold its monthly meetings Wednesday-Friday, Nov. 10-12, on the Twin Cities/Minneapolis campus. As part of the schedule, the regents will tour capital construction projects on the Twin Cities campus in St. Paul, lunch with sophomore students whom they first met as freshmen and meet with the Faculty Consultative Committee.

The board will take action on the \$602.7 million six-year capital plan, the president's annual workplan and a resolution to expand beverage service at Northrop Auditorium. The board will also discuss creating an Academic Health Center (AHC) committee to help develop the AHC's strategic plan.

Below are select committee agenda items. All meetings will be held in Morrill Hall.

Thursday, Nov. 11

- 9:45 a.m. Facilities committee, Room 238. Northrop Auditorium renovation; five-year lease with the Duluth Entertainment and Convention Center for men's and women's hockey.
- 9:45 a.m. Faculty, staff and student affairs committee, Room 300. Principal investigator policy.
- 2:00 p.m. Educational planning and policy committee, Room 238. The Center of Excellence in Building Sciences: A cooperative program with Aspen Research and private partners.
- 2:00 p.m. Finance and operations committee, Room 300. Semiannual budget update; impact of semester conversion on tuition revenue.
- 4:00 p.m. Audit committee, Room 300. Campus operations plan for year 2000 (Y2K preparedness); administrative report on NIH site visit.
- 4:00 p.m. Litigation review committee, Room 325. Non-public meeting to discuss attorney/client privileged matters.

Friday, Nov. 12

- 9:00 a.m. Board of regents, Room 238. Reports of the president and chair; Academic Health Center committee; resolution on expanded beverage service in Northrop; six-year capital improvement plan. □

Embargoed by Science until 1 p.m. Central time Thursday, Nov. 11

What: Hiding place for HIV revealed

Who: Ashley Haase, microbiology dept., (612) 624-4442 (unavailable 11/9)

Contact: Deane Morrison, University News Service, (612) 624-2346

U OF MINNESOTA STUDY: HIV SPREADS IN THERAPY-RESISTANT CELLS

MINNEAPOLIS / ST. PAUL--In a finding that uncovers a new obstacle to preventing or eradicating AIDS, researchers at the University of Minnesota and seven other institutions have found that HIV-1, which is usually transmitted by heterosexual contact, infects and replicates in immune cells whose relative inactivity puts them beyond the reach of current therapies. The study will be published in the Nov. 12 issue of Science.

Previously, scientists thought that HIV could not reproduce itself inside T cells, the major targets of the virus, unless the cells had been activated, said Ashley Haase, Regents Professor of Microbiology at the University of Minnesota and corresponding author of the study. Activation occurs when a T cell encounters a molecule, usually a protein or protein fragment, that signals potential danger and starts the cell on a course that leads to rapid cell reproduction. If the T cell is infected with HIV, the virus takes advantage of the activity by commandeering the cell's reproductive machinery and churning out many copies of the virus, which can then infect other T cells. This cellular piracy kills the T cells.

On the other hand, said Haase, T cells that have not been activated ("resting" T cells) were thought to provide little or no opportunity for the virus to replicate and spread. The theory was that the virus first infected other white blood cells known as macrophages and dendritic cells, and these later passed the infection to activated T cells. But studies spearheaded by Zhi-Qiang Zhang, a research associate in Haase's department, showed otherwise. In monkeys infected with SIV (the simian form of the virus), viral particles were detectable mainly in T cells as early as three days after infection--the earliest it was found in macrophages and dendritic cells. Thus, said Haase, the study provides no support for the idea that macrophages and dendritic cells are infected first.

Also at three days post-infection, SIV was found in both activated and resting T cells, and between three and 12 days of infection it expanded faster in the population of resting T cells. Studies with HIV-1 patients showed patterns consistent with this. In the early stages of infection, the distribution of virus in patients' white cells was about 50-50 in resting T cells versus activated cells and at this and all subsequent stages of infection, close to 90 percent of the infected cells were T cells. In the late stages of HIV-1, at least 75 percent of the infection appears in activated T cells, said Haase.

"We think chronically infected cells that produce only a little virus, as well as latently infected resting cells with silent infections, are difficult targets for the immune system or therapy," he said.

"These cells fly below the radar screen of the immune system. They also live a long time and won't be

affected by our current combinations of anti-AIDS drugs that work by interfering with the chain of new infections that maintains virus production."

Many years of studies with cells in culture led to the belief that resting T cells could not support viral replication, said Haase. Evidently though, he said, there is a difference between resting cells in culture and in the body.

"We don't believe a T cell can be truly resting in the body," he said. "In mice, T cells die without stimulation by cells or the proper fluid-borne chemicals. We speculate that contact with such chemicals, known as cytokines, or certain proteins keeps T cells active in some way different from what you see in tissue culture.

"This study identifies a source of cells that are invulnerable to current therapies." A vaccine will also be hard to develop, he said, because cytotoxic T cells, the normal destroyers of foreign material, kill foreign material by recognizing and killing activated T cells in which the material--such as HIV--is reproducing itself. "Resting" T cells are left alone. Activated, HIV-positive T cells mark themselves for destruction by displaying fragments of the virus on their outer surfaces. The "resting" infected cells display much less or none at all.

"I think the immune system wasn't designed to function with low levels of infection," said Haase. "There just aren't handles for the cytotoxic T cells to find, especially where so many T cells are activated and clamoring for attention."

In addition to the University of Minnesota, the study was carried out by researchers at Beth Israel-Deaconess Hospital, Boston; the University of Pittsburgh; the California Regional Primate Research Center, Davis; the University of Amsterdam Academic Medical Centre, the Netherlands; the University of California, San Diego; the Bernhard-Nocht Institute for Tropical Medicine, Hamburg, Germany; and Northwestern University Medical School, Chicago. □



What: Chemistry Day at U of M
When: Saturday, Nov. 13
Contacts: Louis Pignolet, chemistry dept., (612) 625-0837
Stephanie Stathopoulos, chemistry dept., (612) 624-8008
Deane Morrison, University News Service, (612) 624-2346

CHEMISTRY DAY AT U OF M

MINNEAPOLIS / ST. PAUL--A series of spectacular chemistry demonstrations by professors Marv Lang and Don Showalter from the University of Wisconsin at Stevens Point will highlight the seventh Chemistry Day at the University of Minnesota Saturday, Nov. 13. The 70-minute demonstration, "Yes, Virginia--Learning Chemistry Can Be Fun," will begin at 10:30 a.m. in Northrop Auditorium, on the Minneapolis campus. Chemistry Day is part of National Chemistry Week and is sponsored by the chemistry department at the University of Minnesota.

"This show is very entertaining, fun, and sure to get students excited about chemistry," said University of Minnesota chemistry professor Louis Pignolet, director of Chemistry Day activities. "The two demonstrators also explain the chemical concept behind each demo." Showalter's chemistry demonstrations are featured in World of Chemistry videos shown on public television.

Following the show in Northrop, Chemistry Day will continue with an exposition in Smith Hall. Included will be:

- exhibits and demonstrations by local colleges and companies, local high school students and the university chemistry department's student outreach group;
- tours of the department's state-of-the-art instrumentation facilities, featuring "A day in the life of a molecule," in which a molecule will be shown being synthesized and analyzed by mass spectroscopy;
- chemistry bingo; and
- World of Chemistry videos.

For more information contact Stephanie Stathopoulos at (612) 624-8008 or check the Web at www.chem.umn.edu/chemday. All events are free and open to the public. □

What: Growing biotechnology industry in Minnesota
When: Tuesday, Nov. 16, 8 a.m.-4:30 p.m.
Where: Radisson Hotel Metrodome, 615 Washington Ave. S.E., Mpls.
Contact: Teri Charest, Academic Health Center, (612) 624-4604

FDA OFFICIAL, VENTURE CAPITALIST HIGHLIGHT BIOTECHNOLOGY CONFERENCE

MINNEAPOLIS / ST. PAUL--Some of the top minds in the biotechnology industry will address the issues that face the field and the state Tuesday, Nov. 16, at a conference at the Radisson Hotel Metrodome hosted by the University of Minnesota and MNBIO. MNBIO is a partnership of industry, finance, academia and government, dedicated to growing Minnesota's life science industry.

Biotechnology is the combination of discovery of the scientific basis of a biological occurrence, such as a genetic defect, with the technology needed to turn that discovery into useful biological products, such as new medicines, healthier food and a cleaner environment.

Conference participants will hear from Dr. Philip Noguchi, director of cellular and gene therapies for the U.S. Food and Drug Administration, about the future of cellular and tissue engineering. He will also discuss national efforts to regulate and promote the transfer of biotechnology from the laboratory to the marketplace. Noguchi will speak at 8:30 a.m.

At noon, Roger Wyse will explain how to overcome the reluctance of venture capitalists to invest in biotechnology. His firm, Burrill & Co. in San Francisco, has secured capital investments of more than \$450 million for its agricultural biology clients.

"Biotechnology may well be Minnesota's next significant economic development opportunity," said Dr. Frank Cerra, senior vice president for health sciences at the university. "It has the potential to make a tremendous impact in medicine and agriculture."

University and industry researchers will talk about the latest advances in tissue engineering and gene and cell therapy in two "scientific breakthrough" sessions. The first session, at 9:15 a.m., will focus on site-directed gene repair, human genetic diseases and cancer, and the use of stem cells in clinical therapies. Topics at 11 a.m. include the use of neural cells in the treatment of brain diseases, the use of animal tissue in human medicine and tissue engineered heart valves.

The university's Academic Health Center comprises the schools of medicine, nursing, dentistry and public health and colleges of pharmacy and veterinary medicine. MNBIO was formerly the Minnesota Biotechnology Association. □

What: Monthly meeting: U Regents establish new committee
When: Friday, November 12
Contact: Amy Phenix, University News Service, (612) 625-8510,
phenix@mailbox.mail.umn.edu

REGENTS' ACTIONS INCLUDE NEW COMMITTEE ON ACADEMIC HEALTH CENTER

MINNEAPOLIS / ST. PAUL--At its monthly meeting, held today (Nov. 12) on the Twin Cities/Minneapolis campus, the University of Minnesota board of regents established a new special committee on the Academic Health Center (AHC). The committee will help guide the AHC as it prepares its strategic plan for the 21st century. Among the challenges the AHC faces is fully funding the cost of medical education. "The University of Minnesota has a world-renowned medical education program," said Regent Patricia Spence, chair of the board. "By establishing this new committee, the board of regents is demonstrating our commitment to ensuring that the health professional education program at the University of Minnesota continues to be one of the best in the world." The committee will comprise Regents Anthony Baraga, Warren Larson, Bryan Neel and Maureen Reed. The first meeting of the special committee on the AHC is scheduled for Dec. 8. Contact: Teri Charest, Academic Health Center, (612) 624-4604.

In other action, the board:

- Approved a new policy on principal investigators. The policy defines who can be a principal investigator for purposes of receiving grant funding from the federal government and others. The policy is one of a series of actions the university has taken to improve grants management in response to concerns the National Institutes of Health raised when it placed the university on "exceptional status" in 1995. In addition to adopting the new policy on principal investigators, the university has implemented a new electronic grants management system. Contact: Christine Maziar, vice president for research and dean of the Graduate School, (612) 626-0309.
- Passed a resolution to allow alcoholic beverage service at Northrop Auditorium. While alcohol sales on campus are prohibited by regents' policy, this resolution would provide an exception to allow Northrop to sell beer and wine at select events for a period of one year. The exception was requested to generate additional revenue by improving Northrop's competitiveness and help fund Northrop's renovation. Contact: Eric Kruse, vice president, University Services, (612) 625-6599.
- Accepted President Mark Yudof's 2000 work plan. The work plan, reviewed by the board of regents' Presidential Review Committee, focuses on strengthening the university community,

(more)

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U of M Regent's Meeting

becoming a more service-oriented university, improving teaching and research, and meeting citizen expectations. It advances the president's existing priorities: investing in strategic initiatives (molecular and cellular biology, agricultural outreach, design, digital technology and new media) and improving the undergraduate experience. Contact: Amy Phenix, University News Service, (612) 625-8510.

- Approved the university's six-year, \$602.7 million capital plan, which includes state capital requests of \$391.8 million in the 2000, 2002 and 2004 legislative sessions as well as university debt of \$79.5 million, and a targeted \$131.4 million in fund-raising by the university or academic unit resources. Projects in the plan include Phase II of the new molecular and cellular biology building (\$35 million), a new art building on the Twin Cities/Minneapolis west bank campus (\$44 million), a music performance laboratory and sports center on the Duluth campus (\$6.5 million and \$12.5 million, respectively), renovation of the Kiehle building on the Crookston campus, and Phase II of the science and math building on the Morris campus. Contact: Richard Pfitzenreuter, associate vice president, Budget and Finance, (612) 625-4517.

The next monthly board of regents meetings are scheduled for Dec. 9-10 on the Twin Cities/Minneapolis campus. □

- What:** Press conference on alarming rise in tobacco use by U students
- Who:** Kusuma Madamala, health assessment coordinator, (612) 625-2605
Edward Ehlinger, director, Boynton Health Services, (612) 626-1612
David Golden, director of public health, (612) 626-6738
- When:** 1 p.m. Wednesday, Nov. 17
- Where:** Great Room, Boynton Health Services, 410 Church St. S.E.,
Twin Cities Campus/Minneapolis
- Contact:** Mike Nelson, University News Service, (612) 626-7701

U FINDS 150 PERCENT INCREASE IN TOBACCO USE AMONG FIRST YEAR STUDENTS SINCE 1992

MINNEAPOLIS / ST. PAUL--In conjunction with the Great American Smoke-Out (Thursday, Nov. 18), the University of Minnesota will release a study that found a 150 percent increase in tobacco use among first-year students and a 60 percent increase by students ages 18 to 24 since 1992.

The study also found that among 18 to 24-year-olds, more than 40 percent used tobacco (cigarettes, 31.7 percent, cigars, 6.3 percent and smokeless tobacco, 3.2 percent) and that 54 percent of current tobacco users first tried tobacco after the age of 18.

"Regardless of all the information students have received describing the harmful effects of tobacco use, it is on the rise for University of Minnesota students," said Dave Golden, director of public health at Boynton Health Services.

Dr. Edward Ehlinger, director of Boynton Health Service, will provide more detailed data and insight into the history of tobacco use by students. "One important statistic is that of all these smokers who have ever tried tobacco, over half of them first tried it after they were 18 years of age," said Ehlinger. "This could have some serious implications for people working in the area of tobacco use prevention." □

What: University to release academic misconduct report and action plan
Who: President Mark Yudof, other U of M leaders
When: 2 p.m. Friday, Nov. 19
Where: Room 2-101, Basic Sciences Building, (SW corner of Washington Avenue and Church Street)
Contact: University News Service, (612) 624-5551

U OF M PRESIDENT TO RELEASE INVESTIGATIVE REPORT AND ACTION PLAN

MINNEAPOLIS / ST. PAUL--University of Minnesota President Mark Yudof will hold a press conference to release the independent investigative report into allegations of academic misconduct in the men's basketball program and his action plan in response.

Editors, news directors and reporters should be apprised of the following:

Press conference:

- The press conference will be held in the Basic Sciences Building, Room 2-101, at 2 p.m.
- The room is not available for set up until 1 p.m.
- Closed circuit monitors will be set up in the atrium outside Room 2-101.
- Parking for live trucks and those with heavy equipment will be available on the west side of Church Street outside the Basic Sciences building. Others can park in the Church or Harvard street ramps.
- Participants will include President Yudof, a regent and one or two other university leaders.

The investigative report:

- There are three parts to the full investigative report:
 - The independent investigator's report ("the report"), approximately 500 pages double-sided. The report is organized into eight sections, including an introduction. It includes findings from interviews with more than 150 individuals.
 - Exhibits (memos, letters, press clips and other supporting documents), approximately 1,500 pages single-sided. The exhibits are organized in sections parallel to the report.
 - Executive summary and conclusions, approximately 20 pages single-sided.
- President Yudof has directed that the report should maximize public disclosure, consistent with state and federal data practices and privacy laws.

(more)

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- The university will make one copy of the report (1,000 pages) available to each media outlet at no cost. Additional copies of the report can be purchased for 10 cents a page.
- The university will make the executive summary and conclusions available at no cost.
- The exhibits (approximately 1,500 pages) can be purchased for 10 cents a page.
- Beginning at 8 a.m. Friday, two reference copies of the full report and exhibits will be available for review in the News Service office, Room 6 Morrill Hall, weekdays from 8 a.m to 5:30 p.m.
- An order form to receive copies of the report is attached and must be returned by **10 a.m. Thursday, Nov. 18**, to allow sufficient time for copying.
- The report, **embargoed until 2 p.m. Friday, Nov. 19**, will be released Friday morning to those media outlets placing orders by Thursday. Copies can be picked up at the News Service beginning at 8 a.m. Friday. If you do not pick up the report you order in the morning, you can pick it up at the Basic Sciences building at 1:30 p.m.
- The president's action plan will be summarized and available at 2 p.m.
- Only the executive summary and conclusions will be available electronically. Neither the report nor the exhibits will be available electronically. The conclusions, the action plan, official statements of the president, regents and other U of M leaders will be placed on the News Service website (www.umn.edu/urelate/news.html) at 2 p.m. Friday.

Following this advisory, you will find an order form for obtaining copies of the report, exhibits or conclusions on Friday. Please complete one order per media organization.

What: Immune cells walk tightrope between dying, autoreactivity
Who: Steve Jameson, laboratory medicine and pathology, (612) 625-1496
Contacts: Teri Charest, Academic Health Center, (612) 624-4604
 Deane Morrison, University News Service, (612) 624-2346

IMMUNE CELLS ABHOR A VACUUM; U OF MINNESOTA STUDY HAS IMPLICATIONS FOR AIDS, RADIO- AND CHEMOTHERAPY

MINNEAPOLIS / ST. PAUL--A study at the University of Minnesota suggests that persons whose T cells have been depleted, say by AIDS, radiotherapy or chemotherapy, may see a rebound of T cells in response to the body's own proteins, although not as severe as in the case of autoimmune diseases. The work appears in the current issue of Proceedings of the National Academy of Sciences.

T cells, the cells that carry out the body's search-and-destroy operations against foreign cells, must first learn to recognize the body's own cells. That is done early in life in the thymus gland, where young T cells are exposed to proteins that signal "self." Later, when the cells encounter foreign proteins not in the company of self proteins, the cells react and become activated for a fight. Up until they encounter their first foreign material, the cells are considered "naive" and were thought to need regular interaction with self proteins to survive, said Stephen Jameson, an assistant professor of laboratory medicine and pathology. But work by Jameson and graduate student William Kieper suggests that when the immune system has been severely damaged, self proteins may partly activate naive T cells--a situation similar to autoimmune disease, in which the immune system attacks the patient's own body.

"It was suggested that in order for naive T cells to survive, they had to interact with self proteins," said Jameson. "The evidence was that if you put T cells from an animal into another one whose immune system was lacking the relevant self proteins, the transplanted naive T cells would die."

Therefore, the researchers reasoned, naive T cells transplanted into a genetically identical animal would encounter self proteins and survive. Jameson and Kieper tested the idea using mice that were genetically identical. The recipient mice, however, had had their immune systems destroyed by sub-lethal radiation, which mimics the situation in human patients following radiation or chemotherapy or with AIDS.

They found that naive T cells transferred to irradiated recipients not only survived but proliferated slowly and showed signs of becoming partially activated. Their experiments suggested that two things were necessary for this to happen: self proteins and a lack of T cells.

How the naive T cells detect self proteins is no mystery, said Jameson. On their outer surfaces the cells have a receptor molecule that detects the proteins. It also interacts with and recognizes foreign proteins. But if partial activation occurs in response to self proteins, that's a step in the direction of autoimmune disease, he said.

(MORE)

How the naive T cells can tell they're in an environment where other T cells are lacking is a mystery. T cells constantly rush through the body in the bloodstream; how can they count their fellow T's?

"It could be through cell-cell contact, or a soluble signal molecule called a lymphokine," said Jameson. "For example, if T cells constantly make some molecule that inhibits other T cells from dividing, or if T cells compete with each other for a limiting amount of a stimulatory lymphokine, a lack of T cells could allow proliferation of surviving cells."

In patients with AIDS or in post-radio- or chemotherapy, T cells left behind are often proliferating and behaving like activated T cells that are responding to foreign proteins, said Jameson. While foreign protein--the virus--is present in AIDS patients, it is not clear what foreign protein could stimulate the T cells of patients post-radiation or chemotherapy. The question, Jameson said, is whether any of these patients are close to developing autoimmunity due to their lack of normal T cell numbers. In such patients, remaining T cells do slowly proliferate and display signs of activation. These new results could have implications for patient recovery from these diseases and treatments.

For example, Jameson said cytomegalovirus (CMV), a normal resident in the human body that is kept in check by a healthy immune system, is often involved in deaths of patients with weakened immune systems.

"If we could control and redirect the immune system response from self proteins toward CMV, we might be able to more effectively eliminate the disease, improving the patients' chances of survival," Jameson said. "On the other hand, since the T cells are already responding, weakly, to self tissue, exaggerating the response might lead to developing harmful autoimmune disease."

Jameson said the question is also relevant to the situation of leukemia patients who receive bone marrow grafts. Sometimes, he said, donor and host are purposely mismatched just a little so that the grafted cells will attack and kill any remaining leukemia.

"But long-term revival of the grafted T cells may not happen if, because of the mismatch, they have no self proteins to keep them alive," he said. He likened T cells to muscles, which require regular nervous signals in order to keep their tone. "A tonic signal may be necessary to keep grafted T cells alive," he said. "But if that signal is too strong, it could possibly trigger autoimmunity."

In future experiments, Jameson plans to investigate the mechanisms that allow naive T cells to sense a lack of fellow T cells. □

What: Buffalo native honored by U medical school
Who: Michael Cady, (612) 617-9274
Contact: Teri Charest, Academic Health Center, (612) 624-4604
Christopher Liakos, Academic Health Center, (612) 625-8608

U'S RURAL PHYSICIAN ASSOCIATE PROGRAM HONORS STUDENT FROM BUFFALO

MINNEAPOLIS / ST. PAUL--Michael Cady, a fourth-year medical student at the University of Minnesota, received the Outstanding Student Achievement Award from the university's Rural Physician Associate Program Oct. 11 in Minneapolis. The award honors RPAP participants who demonstrate outstanding academic accomplishment and community involvement.

Cady was an RPAP student at the Family Practice Medical Center in Willmar for the 1998-99 school year. Dr. Michael Morris and Dr. Dennis Peterson, physicians at the medical center, nominated Cady for his professional demeanor and sense of scholarship. He was also recognized for his ability to listen to patients' needs and successfully communicate with the center's Spanish-speaking patients.

RPAP offers medical students the opportunity to care for patients in a rural environment. The program was created in 1971 to address the shortage of primary care physicians in rural Minnesota. Students in the program take part in various educational activities, including orientation, community sessions involving patient interviewing, a research project and an introduction to emergency medical treatment.

The award is sponsored by the Minnesota Medical Foundation. Also honored by the RPAP was Dr. Darrell Carter, a Granite Falls, Minn. physician and RPAP preceptor since 1971. He received the Outstanding Preceptor Award. Recipients of both awards receive a \$500 check and engraved plaque. □

What: Granite Falls physician honored by U
Who: Darrell Carter, M.D., (320) 564-2511
Contact: Teri Charest, Academic Health Center, (612) 624-4604
Christopher Liakos, Academic Health Center, (612) 625-8608

U'S RURAL PHYSICIAN ASSOCIATE PROGRAM HONORS GRANITE FALLS DOCTOR

MINNEAPOLIS / ST. PAUL--Dr. Darrell Carter received the Outstanding Preceptor Award from the University of Minnesota's Rural Physician Associate Program Oct. 11 in Minneapolis. The award honors RPAP participants who are outstanding teachers and mentors of medical students.

Carter is an RPAP preceptor (educator) at the Affiliated Community Medical Center in Granite Falls. Joe Micallef, a medical student in Granite Falls in 1998-99, nominated Carter. Micallef cited Carter's leadership qualities and an "unjaded enthusiasm for patients and medicine." Carter has been mentoring medical students as an RPAP preceptor since 1975.

RPAP offers medical students the opportunity to care for patients in a rural environment. The program was created in 1971 to address the shortage of primary care physicians in rural Minnesota. Students in the program take part in various educational activities, including orientation, community sessions involving patient interviewing, a research project and an introduction to emergency medical treatment.

The U of M Physicians sponsored the award. Also honored by the RPAP was Michael Cady, a fourth-year medical student from Buffalo, Minn., who received the Outstanding Student Achievement Award. Recipients of both awards receive a \$500 check and engraved plaque. □

What: U of M unveils robots for rescue operations
When: 2 p.m. Monday, Dec. 6
Where: Room S166, Kolthoff Hall, Twin Cities campus
Who: Nikolaos Papanikolopoulos, computer science and engineering
Contacts: Jim Thielman, University News Service, (612) 624-0214
Nina Shepherd, Institutional Relations, (612) 624-1841

U SHOWCASES ROBOTS DESIGNED FOR URBAN WARFARE, RESCUE MISSIONS

MINNEAPOLIS/ST.PAUL--Imagine small robots scanning the inside of a building where a fire or hostage situation has occurred, paving the way for rescuers and limiting the loss of life. University of Minnesota computer scientist Nikolaos Papanikolopoulos will demonstrate how these small, inexpensive robots jump, maneuver and transmit information during a showcase for the soup-can-sized creations at 2 p.m. Monday, Dec. 6, in Room S166 Kolthoff Hall on the university's east bank.

The nine-ounce robots--called "scouts"--are powered by nine lithium batteries and are durable enough to be launched by a larger robot through glass. Scouts contain small computers that can transmit audio and video to remote operators; they can also relay other information, such as the presence of dangerous chemicals and lethal gases.

The robots are designed to function as tools in an array of police and military situations, including defense surveillance, minesweeping and urban warfare. At roughly \$200 each, the devices could inexpensively minimize the risk of injury and death to humans.

University researchers from computer science and engineering, mechanical engineering and electrical engineering worked 18 months on the project in conjunction with Eden Prairie-based MTS Systems, Minneapolis-based Architecture Technology Corp. and Honeywell.

The robots are the result of a three-year project funded by a \$4.9 million contract from the Defense Advanced Research Projects Agency (DARPA), the central research arm of the Defense Department. The contract, which established the Center for Distributed Robotics in the university's computer science and engineering department, is one of the largest ever awarded to the university by DARPA. □

www.umn.edu/urelate/news.html 11/23/99

news

What: Statewide effort to boost infant hearing screening
Who: Robert Margolis, Ph.D., (612) 626-5794
 Robert Nemeth, Minnesota Lions, (651) 426-3455
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF MINNESOTA, LIONS LEAD STATEWIDE EFFORT TO TEST INFANT HEARING

MINNEAPOLIS / ST. PAUL--The University of Minnesota has received a five-year, \$575,000 grant from the Minnesota District 5M Lions and Lions Clubs International to establish a statewide infant hearing screening program. District 5M comprises Minnesota, Manitoba and northwest Ontario.

The program is based at the university's Lions 5M International Hearing Center and is in collaboration with the Minnesota State Department of Health. It is one of many university health programs funded by the Lions.

The goal is to provide training in all Minnesota community hospitals that wish to develop newborn hearing screening programs. Hearing loss is usually not found until a child is two or three years old, which can lead to delays in speech, language, social, cognitive and emotional development.

"It is now possible and inexpensive to identify hearing loss in babies," said Robert Margolis, Ph.D., professor and director of audiology at the university. "New technology is now available to conduct low-cost screening prior to hospital discharge. Typically, one to three percent of those screened require referral for diagnostic evaluation."

Twenty states have enacted legislation to require the screenings, and Congress is considering action. Other states, including Minnesota, have passed measures to help hospitals develop screening programs. Margolis estimates that 25 percent of infants born in Minnesota are screened. The strongest voluntary effort is in Iowa, where 95 percent of newborns are screened.

"Through this project we'll learn a lot about Minnesota's hearing loss community," said Robert Nemeth, chairman of the Lions District 5M Hearing Foundation. "The information we gather will also benefit other medical research and will enhance the data kept by the Minnesota Department of Health."

In 1993 a National Institutes of Health panel recommended hearing screening for all newborn infants. The concept has since gained approval from the American Academy of Audiology, the American Academy of Otolaryngology and the American Academy of Pediatrics, as well as the Joint Committee on Infant Hearing, which comprises representatives from a broad range of national health care and professional organizations.

Interested hospitals should call Kirsten McDaniel, university audiologist, at (612) 626-0946. □

What: U football team accepts Sun Bowl bid
When: Wells Fargo Sun Bowl, 12:15 p.m. (mst) Friday, December 31
Where: El Paso, Texas
Contacts: Tom Garrison, Alumni Association, (612) 624-2323
Mike Nelson, University News Service, (612) 626-7701

SUN BOWL TICKET/TRAVEL INFORMATION AVAILABLE BY PHONE, ONLINE

MINNEAPOLIS / ST. PAUL--The University of Minnesota Golden Gopher football team has accepted an invitation to play the University of Oregon Ducks in the 66th annual Wells Fargo Sun Bowl Friday, December 31, in El Paso, Texas.

Sun Bowl tickets can be purchased at the athletics ticket office in Mariucci Arena (1901 4th St. S.E., Minneapolis) or by calling (612) 624-8080 or 1-800-U-GOPHER.

The Official University of Minnesota Bowl Tour, including lodging, tickets, airfare packages and special events, is being sponsored by the University of Minnesota Alumni Association. For the latest tour information, visit their website at www.gogophers.alumniholidays.com or call their toll-free Bowl Hotline at 1-877-GO-4-BOWL (1-877-464-2695).

The Golden Gophers, 8-3 overall (5-3 in the Big Ten), are currently ranked 13th in the Associated Press Top 15 Poll. This will be Minnesota's first appearance in the Sun Bowl. Oregon, 8-3 overall (6-2 in the Pacific 10), won five straight games to end their regular season. The Ducks last competed in the Sun Bowl in 1963. □

statement

**Statement by Mark Yudof
President, University of Minnesota
Dec. 3, 1999**

During the first two years of my presidency, one of my greatest pleasures has been watching Glen Mason shape the Gopher football team and lead it to the enviable 8-3 record it has posted this season. Coach Mason exemplifies the mix of professional genius and personal integrity we all desire in those who guide our sons and daughters through such trying and high-stakes endeavors as Division I sports. Coach Mason is quite simply a wonderful, inspiring and gifted man.

Because of his success, he has attracted the attention of other schools. I would very much like to keep him at Minnesota, and to that end he and I have discussed potential changes in his contract. In the coming days, his legal counsel and ours will hold further discussions. I hope these talks will result in his decision to stay with us and lead the Gophers to even greater achievements.

What: Forum addresses struggle of student-parents on welfare
When: 12:30 to 1:45 p.m. Wednesday, Dec. 8
Where: Room 102 Appleby Hall, east bank campus
Contacts: Dana Britt Lundell, General College, (612) 626-8706
Bob San, University News Service, (612) 624-4082

U OF M FORUM ADDRESSES STRUGGLE OF STUDENT-PARENTS ON WELFARE

MINNEAPOLIS /ST. PAUL--Students from the University of Minnesota Student-Parent Program will host a forum to bring attention to the struggle of student-parents on welfare from 12:30 to 1:45 p.m. Wednesday, Dec. 8, in room 102 Appleby Hall on the east bank campus.

The forum, "Sanctioning Education: The Lives of College Student Parents on Temporary Assistance for Needy Families," will feature a student-produced video documentary that illustrates their efforts to handle school and parenting.

"It is a reflective video documentary produced by the students about their lives and aspirations as student parents," said forum coordinator Dana Britt Lundell. "They are attending college despite current welfare reform efforts to ban their participation in education. We want to invite people from the community to watch the video and spend some time learning about this issue from the perspectives of the students, project staff and one another."

The forum is sponsored by the Student-Parent Help Center and the Center for Research on Developmental Education and Urban Literacy at the university's General College. □



- What:** Texas-style chili feed to celebrate tournament-bound U athletic teams
- When:** 11:45 a.m. to 1 p.m. Wednesday, December 8
- Where:** West bank, west end of Washington Avenue Bridge
- Contacts:** Nina Shepherd, Institutional Relations, (612) 624-1841
Mike Nelson, University News Service, (612) 626-7701

YUDOF, PEP BAND AND PLAYERS TO HOST PEP RALLY, CHILI FEED

MINNEAPOLIS / ST. PAUL--In celebration of postseason bowl and tournament bids for the football and the volleyball teams, University of Minnesota President Mark Yudof will host a free Texas-style chili feed for 4,000 students from 11:45 a.m. to 1 p.m. Wednesday, Dec. 8, on the west end of the Washington Avenue Bridge on the west bank of the Twin Cities campus/Minneapolis.

The football team, 8-3 overall (5-3 in the Big Ten), will play the University of Oregon Ducks in the Wells Fargo Sun Bowl in El Paso, Texas, on Friday, Dec. 31. The volleyball team, which finished with a regular season record of 25-8 (15-5 in the Big Ten), posted its best conference record ever. The team defeated Sacramento State in the first round of the NCAA tournament and Southern California in the second round. They will play No. 1 Penn State in the third round on Thursday (12/9).

Both football coach Glen Mason and volleyball coach Mike Hebert were recently named Big Ten Coach of the Year for their respective sports.

Participants in the chili feed will include Yudof, his wife, Judy, the pep band, Goldy Gopher, football cheerleaders and members of the football team. □

**What: Tom Moe named interim director
for men's intercollegiate athletics**

When: Monday, Dec. 6

**Contacts: Amy Phenix, University News Service, (612) 625-8510
Mike Nelson, University News Service, (612) 626-7701**

MINNEAPOLIS / ST. PAUL—Tom Moe, chairman of the Minneapolis law firm Dorsey & Whitney, has been named interim director for men's intercollegiate athletics at the University of Minnesota-Twin Cities. He assumes his duties immediately.

Moe, 61, has taken a leave of absence from Dorsey & Whitney and has committed to serve as interim director for at least seven months.

Moe played football and basketball for the university in the late 1950s and earned a bachelor's degree in economics in 1960. He is a 1963 graduate of the University of Minnesota Law School.

The university will launch a national search for the new director of men's intercollegiate athletics within the next few weeks. The new director would begin July 1, 2000.

For copies of statements by chief of staff Tonya Moten Brown and Tom Moe, or for Moe's curriculum vitae and agreement to serve, call the University News Service at (612) 624-5551. □

What: Middle-school students present monarch fair 
When: 2-5 p.m. Saturday, Dec. 11
Where: Bell Museum, 10 Church St. S.E., Minneapolis
Contacts: Karen Oberhauser, ecology, evolution & behavior dept.,
 (612) 624-8706
 Deane Morrison, University News Service, (612) 624-2346

MIDDLE-SCHOOL STUDENTS PRESENT MONARCH BUTTERFLY FAIR AT U OF M

MINNEAPOLIS / ST. PAUL--Live butterflies will make an appearance at the University of Minnesota's third annual Monarch Fair, a one-day exhibit by more than 50 middle-school students of research ranging from the effects of Bt toxin on monarch butterflies to caterpillars' musical preferences. The students, who hail from around Minnesota, will present their projects from 2 to 5 p.m. Saturday, Dec. 11, at the university's Bell Museum of Natural History.

The fair is part of the university's Monarchs in the Classroom program, which brings students, teachers and scientists together to study the biology of an organism that is both beautiful and easy to raise. Students performed their projects in the classroom and at home, asking questions that didn't always yield easy answers. Some used relatively simple methods to study the butterflies, while some used higher tech means.

"One girl's father works at the Mayo Clinic, and she was able to get amazing pictures of organs developing in the pupa, using a special imaging machine at the clinic," said Karen Oberhauser, a monarch ecologist at the university. Those pictures will be on display, along with studies of how fast caterpillars move, the effects of light on growth, food preferences and other topics.

New to the fair this year are permanent displays spotlighting monarch life cycle, ecology, conservation, migration and rearing techniques. The displays were planned, designed and constructed by teachers and students working with University of Minnesota advisers. The displays, along with selected projects from Saturday's fair, will remain at the museum through the end of January.

The fair receives major support from the Medtronic Foundation STAR program and Monarchs in the Classroom. For more information call Oberhauser at (612) 624-8706. □

What: Board of regents December meeting agenda
When: Wednesday-Friday, Dec. 8-10
Where: 238 Morrill Hall, Twin Cities/Minneapolis campus
Contacts: Amy Phenix, (612) 625-8510, phenix@mailbox.mail.umn.edu
 Mike Nelson, (612) 626-7701, mnelson@mailbox.mail.umn.edu

U OF M REGENTS RECEIVE ANNUAL REPORT, REVIEW PLANS FOR "ARTS" DISTRICT

MINNEAPOLIS / ST. PAUL--The University of Minnesota board of regents will hold its monthly meetings Wednesday-Friday, Dec. 8-10, on the Twin Cities campus /Minneapolis.

The board will receive the university's FY 1999 annual report. The theme of this year's report, Building a Better U, highlights the extraordinary level of construction and renovation underway on campus and details the university's financial position. Among its highlights: The Legislature has funded 70 new faculty positions in the last two years, improving the undergraduate experience by expanding freshman seminars and strengthening academic departments and interdisciplinary initiatives. University assets grew a healthy \$247.8 million, more than half of which was in cash and investments. Asset growth was offset by an increase in liabilities of \$181.5 million, virtually all of which resulted from the issuance of new debt for construction projects.

Regents will also hear a presentation on the proposed West Bank Arts District, a plan to create a vibrant arts community anchored by a new Studio Arts building adjacent to the Barbara Baker Dance Center on the West Bank campus.

Below are select committee agenda items. Unless otherwise noted, all meetings will be held in Morrill Hall.

Wednesday, Dec. 8

- 6-7 p.m. Academic Health Center committee, Room 475, Children's Rehabilitation Center. Strategic planning process.

Thursday, Dec. 9

- 9 a.m. Facilities committee, Room 300. Strategic plan for hockey facilities on the Duluth campus; plans to create a new West Bank Arts District.
- 9 a.m. Faculty, staff and student affairs committee, Room 238. Regents will hear an update on the cost of, price and access to higher education for graduate and professional schools.
- 1:30 p.m. Educational planning and policy committee, Room 300. Enrollment trends on all campuses; the university's progress in rebuilding the humanities.
- 1:30 p.m. Finance and operations committee, Room 238. Financial reports, an update on the state's projected budget surplus.

Friday, Dec. 10

- 9 a.m. Board of regents, Room 238. Reports of the president, chair and Faculty Consultative Committee; annual financial report. □

What: New understanding of cancer pain
When: Embargoed by the journal until 12:01 a.m. Wednesday, Dec. 15
Who: Patrick Mantyh, Ph.D., (612) 626-0180
 Denis Clohisy, M.D., (612) 626-3973
Contact: Teri Charest, Academic Health Center, (612) 624-4604

U OF M FINDING OPENS DOOR TO NEW TREATMENTS FOR BONE CANCER PAIN

MINNEAPOLIS / ST. PAUL--University of Minnesota scientists have created the first viable animal model for the study of bone cancer pain. The model demonstrates a direct correlation between bone destruction, pain and neurochemical changes in the spinal cord, opening the door to the development of novel therapies for treating severe pain in bone cancer patients. The study appears in the Dec. 15 issue of the Journal of Neuroscience.

"For the first time we have a model to methodically determine what actually causes the pain, and we can now begin to develop new therapies that avoid the undesirable side effects of current therapies," said Patrick Mantyh, Ph.D., professor in the School of Dentistry and Medical School. Mantyh is also a research scientist at the Veterans Affairs Medical Center in Minneapolis.

In 1998 roughly 400,000 people in the United States suffered from bone cancer-related pain. In most of these cases the cancer had spread from soft tumors in the breast, ovary, prostate or lung. "For some reason the pain is particularly intense, and, because it spreads quickly through the skeletal structure, it is very difficult to treat," said Denis Clohisy, M.D., associate professor of orthopedic surgery and co-author of the article. "As the disease progresses, so does the intensity of the pain, until the only effective palliatives are morphine-based drugs. However, the narcotic side effects of these drugs can significantly diminish the patients' quality of life. Ironically, advances in the treatment of bone cancer have succeeded in prolonging the lives of these patients, making the need for improved pain treatment all the more necessary."

The first step in the study was to develop an animal model for bone cancer pain that duplicated human bone cancer pain. The model includes three areas of observation: pain-related behavior, the progression of bone destruction and neurochemical change in the spinal cord. In order to differentiate pain-related behavior from normal behavior, the scientists isolated the cancer in one bone of mice. Following injection of tumor cells in the femur, the scientists demonstrated that, like humans with bone cancer, the mice guarded the affected limb, bone destruction increased with time, and sensory neurons that innervated the bone became hypersensitive. "This model appears to replicate the key signs and symptoms of patients with bone cancer pain," said Mantyh.

Mantyh and his colleagues identified two specific types of pain associated with bone cancer. The first type is a rather dull, general pain in the bone that occurs fairly early. Most often it is this pain that leads patients to seek diagnosis. At this stage, very little bone destruction has taken place. However,

malignant cells have invaded the bone and appear to be secreting chemical compounds that cause the nerves of the bone to become hypersensitive.

These compounds also induce a reorganization of the neurochemistry of the spinal cord unlike that observed in any other chronic pain state. The scientists speculate that these unique changes may in part underlie why bone cancer pain can be so intense and difficult to treat. "If we can identify what is inducing the sensitization and neurochemical reorganization of the spinal cord, we will make real progress in figuring out how to treat cancer pain," Mantyh said.

As in humans, an even more intense pain develops after significant tumor-induced bone destruction has occurred. At this stage, the weakened bone often fractures and pain breaks through the buffer provided by analgesic drugs. The scientists speculate that such "breakthrough" pain occurs as a result of mechanical distortion of the sensitized nerve fibers that richly innervate the thin layer of cells that forms a sheath over the bone.

By focusing on the biochemical mechanisms that give rise to these different types of cancer pain, the scientists hope to develop novel therapies that are far more specific in their targets. They hope these "specific-target" drugs will replace the "general-target" narcotic drugs currently in use.

The group is now using this model to understand the mechanisms that generate bone cancer pain and testing novel therapies to block it. "We specifically developed the model in the mouse because this will allow our group, other scientists and the pharmaceutical industry to bring to bear on cancer pain the enormous advances in mouse genetics that have been made," Mantyh said.

The results of the study have broader implications. Mantyh and Clohisy believe that progress in understanding and treating bone cancer pain will also provide insights into potential therapies for pains arising from soft tissue cancers. In the United States, more than one million patients suffer from cancer-related pain each year. "Regardless of the cancer or life expectancy, we want to minimize the pain and restore an acceptable quality of life to the individual," Mantyh said.

The team of scientists also includes co-first authors Matthew Schwei and Prisca Honore, along with authors Scott Rogers, Janeen Salak-Johnson, Matthew Finke and Margaret Ramnaraine. The National Institutes of Health funded the study.

What: Chemists have fun with Y_2K
When: Embargoed by Science until 1 p.m. Central time Thursday, Dec. 16
Contacts: Jeffrey Roberts, chemistry department, (612) 625-2363
Christopher Cramer, chemistry department, (612) 624-0859
Deane Morrison, University News Service, (612) 624-2346

U OF M CHEMISTS STUDY MYSTERIOUS Y_2K MOLECULE

MINNEAPOLIS / ST. PAUL--Noting that 1999 has been flooded with reports on Y_2K , University of Minnesota associate chemistry professors Jeffrey Roberts and Christopher Cramer were shocked to learn that the chemical literature contained no mention of this timely molecule, which could conceivably form when two atoms of yttrium (abbreviated Y on the periodic chart) combine with one atom of potassium (abbreviated K). (In the same manner, water-- H_2O --forms from two atoms of hydrogen plus one atom of oxygen.) The researchers promptly performed an in-depth quantum chemical analysis of diyttrium potassium, or Y_2K , which will be reported in the Dec. 17 issue of Science.

"Our computers encountered no problems in analyzing Y_2K ," said Roberts. He said he and Cramer are mulling over the possibility of analyzing two other yttrium-containing compounds, YOY (two yttriums, one oxygen) and YNOT (yttrium, nitrogen, oxygen and tritium, a radioactive form of hydrogen).

"We could have studied Y_3K too, but we thought we could put it off," the researchers said.

The chemists used the resources of the university's Minnesota Supercomputer Institute to determine that two yttriums and a potassium could indeed come together chemically, at least as a single molecule. Their analysis indicated that the molecule could adopt either of two shapes with roughly equal facility--linear, as Y-Y-K, or T-shaped, they said.

They did not try to predict its solid-state properties, leaving open the possibility that Y_2K might someday be used in computer chips. Roberts and Cramer said that should solid Y_2K get into a computer, it should pose no problem, provided coffee has not been spilled in the keyboard. (The danger stems from the tendency of potassium to react violently with water.)

Nevertheless, "We suspect that solid Y_2K could be the material of the millennium," the researchers said.

The researchers wish to point out to their dean and department head that only 12 hours of supercomputer time were spent on the analysis. □

What: U student wins Marshall Scholarship to study in England
Who: College of Liberal Arts senior Letisha Morgan
Contacts: Letisha Morgan, morg011@tc.umn.edu, (612) 676-0597, Bob San,
University News Service, bsan@mailbox.mail.umn.edu, (612) 624-4082

U OF M STUDENT ONE OF 40 IN NATION TO RECEIVE MARSHALL SCHOLARSHIP

MINNEAPOLIS /ST. PAUL--Letisha Morgan, a senior majoring in cultural studies and comparative literature at the University of Minnesota-Twin Cities campus, is one of 40 students nationwide to receive a British Marshall scholarship, the British version of the Rhodes scholarship.

Morgan, daughter of Willie and Denice Morgan of Atlanta, was born in Atlanta but grew up in Grand Forks, N.D. She graduated from Red River Senior High School in Grand Forks in 1996 and came to the University of Minnesota. She is a College of Liberal Arts honors student and also works as a CLA peer adviser.

Marshall scholarships were created by the British Government in 1953 to commemorate the Marshall Plan, the European Recovery Program named after Gen. George C. Marshall. Up to 40 Marshall scholarships are awarded each year in the United States, about the same number as Rhodes scholarships. The Marshall scholarship is tenable at any British university and funds up to two years of study.

Morgan, the University of Minnesota's first Marshall winner since 1983, will attend the University of Warwick near Birmingham in August 2000. She will spend two years working on a master's degree in post-colonial studies, with a concentration in Caribbean literature and political movements.

"England is a great place to do it because it colonized the Caribbean," said Morgan, who plans to seek a doctoral degree in the subject. "There is a large Caribbean community in the country, with a lot of arts and performances by people from Jamaica and Trinidad. I will be able to get out of just looking at books and actually talk to people writing the literature, plays and poetry." □

news

What: Prestigious grant will help recruit physician scientists
When: Embargoed by HHMI until 12:01 a.m. Wednesday, Dec. 15
Who: Matt Mescher, Ph.D., (612) 626-2368
Contact: Teri Charest, Academic Health Center, (612) 624-4604

HOWARD HUGHES MEDICAL INSTITUTE GIVES U MEDICAL SCHOOL \$1.6 MILLION

MINNEAPOLIS / ST. PAUL--The University of Minnesota Medical School is one of 41 schools to receive a four-year grant from the Howard Hughes Medical Institute (HHMI) in Chevy Chase, Md. The \$1.6 million grant will be used to recruit physician scientists to the university.

The HHMI grants are designed to help medical schools continue to perform research at a time when managed care and other funding changes have put stress on the school's research capacity. Minnesota has been at the forefront of managed care, and as a result, the resources needed to recruit new physician scientists and provide them with the time and resources to conduct research have become severely limited.

Matt Mescher, professor of laboratory medicine and pathology and director of the university's Center for Immunology, said the Medical School will search for experts in tumor immunotherapy and immunodiagnostics, transplantation, infectious diseases such as AIDS, autoimmunity and diabetes.

"This award from HHMI provides important recognition of the University of Minnesota as one of the leading institutions in biomedical research," Mescher said. "The funds provided by the award will allow us to further strengthen our efforts to move basic immunology discoveries from the laboratory to the clinic in several areas."

In addition, a portion of the funds will be used to expand the existing Mouse Genetics Laboratory, where investigators can use state-of-the-art equipment and expertise for manipulating mouse genes to study a variety of diseases. This facility is administered jointly through the Cancer Center, the Center for Immunology and the Institute of Human Genetics.

HHMI invited 126 medical schools to compete for the grants and reviewed 105 proposals. HHMI is a medical research organization that employs scientists in cell biology, genetics, immunology, neuroscience and structural biology. □

media advisory

University News Service
6 Morrill Hall
100 Church St. SE
Minneapolis, MN 55455
612-624-5551

What: Largest gift to Campaign Minnesota
When: 1:30 p.m. Thursday, December 16
Where: Ski-U-Mah Room, McNamara Alumni Center
University of Minnesota Gateway, 200 Oak St. S.E.
Who: President Mark Yudof
Contacts: Martha Douglas, University Foundation, (612) 626-9712
Amy Phenix, University News Service, (612) 625-8510

CAMPAIGN GIFT TO SUPPORT FACULTY AT U OF M

MINNEAPOLIS / ST. PAUL--The University of Minnesota will announce the second largest donation to the U of M and the largest donation to date during Campaign Minnesota at 1:30 p.m. Thursday, Dec. 16, in the Ski-U-Mah Room, McNamara Alumni Center, University of Minnesota Gateway.

The gift will support one of the key priorities of Campaign Minnesota: to attract and retain the nation's best faculty through endowed chairs and other faculty support.

The McNamara Alumni Center, University of Minnesota Gateway is located at 200 Oak St. S.E.

Enter the building on the west side, where the granite and copper meet. □

What: NASA grant to study sun in STEREO

**Contacts: Keith Goetz, physics department, (612) 624-3520
Deane Morrison, University News Service, (612) 624-2346**

NASA GIVES U OF M \$5 MILLION TO SEE SUN IN 'STEREO'

MINNEAPOLIS / ST. PAUL--NASA has selected the University of Minnesota to receive \$5 million to provide instruments for dual spacecraft scheduled for launch in 2004 to study the sun from two orbiting vantage points. The mission, called STEREO (Solar TERrestrial RELations Observatory), will be the first to examine the sun in three dimensions. Two spacecraft in Earth's orbit, one traveling ahead of Earth and the other trailing Earth, will track the phenomenon known as coronal mass ejection--the spewing of up to 10 billion tons of hot gas from the sun's corona at speeds exceeding a million miles per hour.

"We want to understand better how the sun works and how it impacts Earth," said physicist Keith Goetz, a member of the university's space physics group and its principal investigator on the project. "When these balls of gas are hurled in our direction, they pose danger to astronauts and can disrupt satellite communications."

Both spacecraft will carry identical instruments, giving earthbound scientists a stereoscopic view from two "eyes" on the sun. The university will provide both spacecraft with instruments to study radio waves emitted by the ejections.

Goetz and his university colleagues are part of a team headed by Jean Louis Bougeret from the Paris Observatory. Three other experiment teams will study other aspects of coronal mass ejections, including visible and ultraviolet light and high-speed ions.

The two spacecraft will gradually increase their distance from Earth and eventually approach each other on the far side of the sun. More information is available from NASA at

<ftp://pao.gsfc.nasa.gov/pub/PAO/Releases/1999/99-131.htm>. □

What: U transfers management of pig farm software business
Who: Bob Morrison, D.V.M., (612) 624-3476
Contact: Teri Charest, Academic Health Center, (612) 624-4604

MANAGEMENT OF PIGCHAMP LICENSED TO NEW GROUP, U RETAINS PRIVILEGES

MINNEAPOLIS / ST. PAUL--The University of Minnesota has reached an agreement with a group of PigCHAMP employees and closely associated consultants to obtain an exclusive license to distribute PigCHAMP software and products for the University of Minnesota.

PigCHAMP is the undisputed leader in swine management software. It was created by the university; has been translated into 13 languages, including Spanish, Portuguese, Japanese, and French; and helps pork producers manage their herds in 55 countries around the world. The university first developed the software in the early 1980s and used the data for teaching and research in the College of Veterinary Medicine.

"The business grew beyond our wildest dreams," said Bob Morrison, associate professor of veterinary medicine and university director of PigCHAMP. "The licensing agreement frees us from the day-to-day operation of the business, while maintaining a strong tie for faculty involvement through the exchange of information and continuing access to the production database."

The university will use the revenues to support graduate study in the College of Veterinary Medicine's swine program.

The new company will use the PigCHAMP name and continue to service and support PigCHAMP customers and products. Bill Russell, the new CEO and president of "PigCHAMP, Inc.," indicated that most of the current staff would have the opportunity to continue their present positions. □

UNIVERSITY OF MINNESOTA JANUARY STARWATCH

by Deane Morrison

Just a month after staging one of its brighter apparitions, the full moon will go completely dark. Or almost. A little stray sunlight may fall on our satellite during January's total lunar eclipse, but it still stands in marked contrast to December's performance. Early January offers a short, perhaps bright, burst of meteors, and the glorious winter stars are pretty any night.

The timing of the lunar eclipse could hardly be better for us in the Midwest. The night of the 20th, the moon enters Earth's umbra, or dark inner shadow, at 9:01 p.m. CST. Totality begins at 10:04 p.m., when the last of the moon is swallowed by the umbra. The midpoint of the eclipse falls at 10:43, the moon begins to emerge at 11:23, and the trailing edge of the moon glides out of the umbra at 12:26 a.m. on the 21st. At this time of night, the full moon will be high enough that nearly everyone with a clear sky should be able to see it unobstructed.

One thing that makes total lunar eclipses so exciting is the unpredictability of the moon's color. Sometimes Earth's atmosphere bends sunlight into the umbra, giving the moon a distinct reddish color. Other times the moon simply disappears. This time the moon will pass through the lower part of the umbra. The moon's upper edge will brush close to the very center of the shadow and so will likely appear darker than the rest of the disk if it is visible.

Another nice thing about eclipses is the objects that come out when the moon (or sun) is covered. If your skies are dark, you will probably be able to glimpse the Beehive star cluster just east of the moon during totality. To the west, the Gemini twins Castor and Pollux will line up with the moon. Pollux, the brighter twin, is in the middle.

The full moon of January has been called the wolf moon by some Indian tribes because of the hungry wolf packs that howled outside the villages this time of year. It was also known as the old moon or, in Western lands, the moon after yule. Other memorable dates for moon watchers include

the 3rd, when a thin crescent will appear in the morning sky with Venus, and the 8th, when a thin young crescent will come out low in the southwest after sunset.

Venus remains bright in the predawn sky, but sinks lower as January goes by. Our sister planet precedes the sun by three hours on New Year's Day but only two hours on the 31st.

Jupiter and Saturn continue to draw closer in the evening sky. Both planets come out in the south after sunset, Jupiter to the west and much brighter. Even farther west, Mars hugs the horizon. Don't confuse it with the star Fomalhaut, even lower in the southwest.

Orion and its associated constellations appear very high in the south this month. The brightest star of all, Sirius, shines unmistakably southeast of Orion, in Canis Major. Above Sirius, Procyon marks Canis Minor. Both Canis constellations represent hunting dogs of Orion. Between them, the fairly large but dim Monoceros, the unicorn, may be discernible against very dark skies. The Milky Way extends across the evening sky from southeast to northwest, all the way from Sirius to Deneb, the last of the Summer Triangle stars to disappear for the season.

The Quadrantid meteor shower will fall between the 1st and 5th, with a peak in the nearly moonless sky the night of the 3rd-4th. The meteors will radiate from the northern part of Bootes, which rises in the northeast about 11 p.m. The peak, which is typically sharp, is predicted to occur at about that hour, but sleepless observers may see meteors later, when Bootes is higher in the sky.

Earth reaches perihelion, its closest approach to the sun, at 11 p.m. CST on the 2nd. At that moment we'll be about 91.2 million miles from the sun.

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Starwatch is a monthly guide to the night sky in the Upper Midwest. For a taped version from the University of Minnesota astronomy department, call (612) 624-2001.

Contact:

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dmorris@mailbox.mail.umn.edu**

12/21/99

Starwatch is also on the Web at www.umn.edu/urelate/news.html.

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news

What: Thief River Falls hosts University of Minnesota Medical School
When: Thursday, Jan. 6, 6 p.m. (Dec. 30 registration deadline)
Where: Northwest Medical Center, 120 LaBree Ave., Thief River Falls
Contact: Teri Charest, Academic Health Center, (612) 624-4604

MINI MEDICAL SCHOOL WILL 'MAKE MINI NEUROSCIENTISTS' OF STUDENTS

MINNEAPOLIS / ST. PAUL--Medical science from University of Minnesota will make its way to Thief River Falls Thursday, Jan. 6, for a traveling version of the university's Mini Medical School.

Dr. Tim Ebner, professor and head of neurosciences at the university, will teach students about the human brain in a lecture titled "The Three-Pound Universe in Your Head." He will describe how the brain functions in health and in diseases such as Alzheimer's disease. Our understanding of the brain is changing, thanks to advances in molecular and cellular biology. Changing genetic sequences or growing new brain cells may someday cure diseases of the nervous system that are now incurable or treated with traditional therapies.

The university launched Mini Medical School in October, and it was met with overwhelming popularity. More than 3,000 participants inquired just three days after the six-week course was announced.

Co-sponsored by the Minnesota Hospital and Healthcare Partnership (MHHP), this Mini Medical School tour will spread the excitement throughout the state with stops in Mankato, Brainerd, Grand Rapids, Duluth, St. Cloud, Willmar, Marshall and Fergus Falls.

"We encourage anyone who has an interest in or curiosity about the brain to join us for this Mini Medical School session," Ebner said. "But we have to warn you, it will make a mini neuroscientist out of you."

MHHP is a trade organization representing Minnesota's 142 hospitals and 22 health systems. MHHP develops policy, conducts advocacy efforts and provides services designed to assist members in caring for the health of their communities. The university's Academic Health Center comprises the schools of medicine, dentistry, nursing and public health and the colleges of pharmacy and veterinary medicine.

Space is limited, and registration is required. Call Jeny Stumpf at the university, (612) 624-1923, or Maureen Bruce at MHHP, 1-800-462-5393, by Thursday, Dec. 30. □