

UNIVERSITY OF MINNESOTA  
NEWS SERVICE, 6 MORRILL HALL  
100 CHURCH ST. S.E.  
MINNEAPOLIS, MINNESOTA 55455  
APRIL 1, 1983

10712  
1-47  
A-10

NEWS PEOPLE: For further information  
contact PAUL DIENHART, (612) 373-7512

MEMO TO NEWS PEOPLE

The University of Minnesota Board of Regents will hear how its March resolution to limit tuition to 30 percent of instructional costs was presented to the Legislature when the board meets Thursday and Friday (April 7 and 8).

President C. Peter Magrath will talk about the resolution and the 1983-84 tuition model at the committee of the whole meeting Friday at 8:30 a.m. in 238 Morrill Hall.

Gov. Rudy Perpich has called for tuition increases to 35 percent of instructional costs. Tuition at the university is currently at about 30 percent of instructional costs.

At the same committee meeting, the regents will hear about program priorities for the 1983-84 budget. Enrollment patterns in graduate education, General College plans for its 50th anniversary and the breakup of the degree-granting link between the university and the Mayo Medical School will also be discussed. Since 1972 students attending Mayo have been able to get university medical degrees and Ph.Ds. Now, Mayo plans to begin issuing its own degrees.

The schedule of meetings and a sample of agenda items follow:

--Faculty and staff affairs committee, 1:30 p.m. Thursday, 300 Morrill Hall.

--Physical plant and investments committee, 1:30 p.m. Thursday, 238 Morrill Hall. Discussion of adding the investment firm of Spears, Benzak, Salomon of New York City as the fourth investment adviser for the university endowment funds.

--Educational policy and long-range planning committee, 3 p.m. Thursday, 300 Morrill Hall. Information on reorganization of human services education, including proposed elimination of undergraduate degree program in social work on the Twin Cities campus and elimination of master's program in social work at Duluth.

--Student concerns committee, 3 p.m. Thursday, 238 Morrill Hall. Information on

(OVER)

student service fees recommendations for coordinate campuses.

Proposed fee increases are under 5 percent, except at Duluth where a special one-time fee to pay for microcomputers is being proposed.

--Committee of the whole, 8:30 a.m. Friday, 238 Morrill Hall.

--Full board meeting, 10:30 a.m. Friday, 238 Morrill Hall. Final action on votes taken in committee.

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

CONFERENCE WILL AID SMALL,  
DISADVANTAGED BUSINESSES

(FOR IMMEDIATE RELEASE)

More than 30 federal, state and local government agencies will be represented at a conference designed to help small business owners learn how to take advantage of government contracts and opportunities.

The fourth annual Minnesota Set Aside Procurement Conference will be held April 9 at the University of Minnesota Earle Brown Continuing Education Center on the St. Paul campus.

The conference is designed to assist socially and economically disadvantaged businesses, to inform business owners of government contract processes and to help entrepreneurs identify resource organizations.

The conference will include hands-on computer oriented programs and sessions on management, finance and construction specifications. A representative of the Internal Revenue Service will discuss what small business owners need to know to work more effectively with the IRS.

Several government representatives are expected to provide bid solicitations for current projects and to discuss upcoming contract opportunities.

The conference will begin at 8 a.m. with registration and breakfast. At 4:30 p.m. there will be a social hour with a door prize drawing. Prizes, which were donated by several private businesses, are aimed at the needs of small businesses. The prizes include a printing calculator, a cordless telephone and a small refrigerator.

For more information, contact Brenda Reid, Housing and Urban Development, (612) 349-3059, or Michael Johns Hopkins, purchasing department, University of Minnesota, (612) 373-2073.

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(A0,3,8,12,12a;B1;C0,3.8,12,12a)

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APRIL 1, 1983

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NEWS PEOPLE: For further information  
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MEMO TO NEWS PEOPLE

Dr. James V. Neel, professor of human genetics at the University of Michigan and an authority on the genetic effects of atomic bombs, will be in the Twin Cities April 12 and 13 to lecture at the University of Minnesota.

As a newly graduated physician, Neel was sent to Hiroshima and Nagasaki to do follow-up studies for the U.S. Army. His association with those studies continues. Neel is a founding member of the American Society of Human Genetics and served as chairman of the University of Michigan's department of human genetics for 25 years.

Neel will give a public lecture on "The Genetic Effects of the Atomic Bombs" at 8 p.m. April 12 in the Coffman Union theater on the Minneapolis campus. That same day, he will give a technical lecture on spontaneous mutation rates at 3:30 p.m. in 10 Palmer Classroom Building on the St. Paul campus.

Neel's lectures are part of the Sheldon C. Reed lecture series, named for the director of the university's Dight Institute for Human Genetics from 1947 to 1979. Neel's visit is sponsored by the Minnesota Human Genetics League.

To arrange for an interview with Neel, contact V. Elving Anderson, director of the Dight Institute, at (612) 373-3792.

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TELEPHONE: (612) 373-5193  
APRIL 1, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
April 6-12

**Wed., April 6--Paul Whitney Larson Gallery:** Watercolors by Marija Skutans Netz. St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through April 22. Free.

**Wed., April 6--Jaques Gallery:** "Hunter of the Sacred Game," contemporary Eskimo (Inuit) graphic prints. Bell Museum of Natural History. 10 a.m.-3 p.m. Tues.-Fri.; 9 a.m.-5 p.m. Sat.; 1-5 p.m. Sun. Through April 9. Free.

**Wed., April 6--Coffman Union Gallery:** B.F.A. show: Sculptures and drawings by William Dobbs and drawings and paintings by John Goulet, Gallery 1. "Neo-plastic Paintings-Reliefs-Konstrukt" by James Kern, Gallery 2. 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Through April 13. Free.

**Wed., April 6--University Gallery:** "George Morrison: Entries in an Artist's Journal," through May 1. "Lars Sonck, 1870-1956: Finland's Romantic Architect," through May 29. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., April 6--Film:** "On the Town" (1950). Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Wed., April 6--University Film Society:** "The Night of the Shooting Stars" (Italy, 1982). Bell Museum of Natural History aud. 7:30 and 9:30 p.m. \$3. Information: 373-5397.

**Thurs., April 7--Lecture-demonstration:** The 21st Street Players, local theater ensemble. Theater-lecture hall, Coffman Union. Noon. Free.

**Thurs., April 7--University Film Society:** "The Night of the Shooting Stars" (Italy, 1982). Bell Museum Natural History aud. 7:30 and 9:30 p.m. \$3. Information: 373-5397.

**Thurs., April 7--University Film Society:** "Stepping Out" (Denmark, 1983). 7:30 p.m. "Tree of Knowledge" (Denmark, 1982). 9:30 p.m. 125 Willey Hall. \$3. Information: 373-5397.

**Fri., April 8--Lecture-demonstration:** Lar Lubovitch Dance Company, classical and modern dance. Theater-lecture hall, Coffman Union. Noon. Free.

**Fri., April 8--Film:** "Raiders of the Lost Ark." Theater-lecture hall, Coffman Union. 1:30, 7 and 9:20 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

**Fri., April 8--University Film Society:** "Night of the Shooting Stars" (Italy, 1982). Bell Museum of Natural History aud. 5:30, 7:30 and 9:30 p.m. \$3, \$2 matinee. Information: 373-5397.

**Fri., April 8--Bijou film:** "The Philadelphia Story" (George Cukor, 1940). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

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**Sat., April 9--University Film Society:** "Night of the Shooting Stars" (Italy, 1982). Bell Museum of Natural History aud. 5:30, 7:30 and 9:30 p.m. \$3, \$2 matinee. Information: 373-5397.

**Sat., April 9--Film:** "Raiders of the Lost Ark." Theater-lecture hall, Coffman Union. 7 and 9:20 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

**Sat., April 9--University Film Society:** "Gotta Run! (Finland, 1983). 7:30 p.m. "Broken Sky" (Sweden, 1982). 9:30 p.m. 125 Willey Hall. \$3. Information: 373-5397.

**Sat., April 9--Bijou film:** "The Philadelphia Story" (George Cukor, 1940). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Sat., April 9--Dance:** Lar Lubovitch Dance Company. Northrop Aud. 8 p.m. \$7-\$12.50. Tickets and information at 105 Northrop, 373-2345, and Dayton's.

**Sun., April 10--University Film Society:** "Night of the Shooting Stars" (Italy, 1982). Bell Museum of Natural History aud. 5:30, 7:30 and 9:30 p.m. \$3, \$2 matinee. Information: 373-5397.

**Sun., April 10--Film:** "Raiders of the Lost Ark." Theater-lecture hall, Coffman Union. 7 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

**Sun., April 10--School of Music:** Guest artist series: Arthur Haas, harpsichord, and Martha McGaughey, viola da gamba. Scott Hall aud. 8 p.m. Free.

**Mon., April 11--University Film Society:** "The Night of the Shooting Stars" (Italy, 1982). Bell Museum Natural History aud. 7:30 and 9:30 p.m. \$3. Information: 373-5397.

**Tues., April 12--University Film Society:** "Chicago Maternity Center Story" (U.S.A., 1977). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

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APRIL 4, 1983

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9/24/83

NEWS PEOPLE: For more information  
contact the China Center, (612) 376-2593

CHINA'S GOVERNMENT, PAST  
AND PRESENT, TOPIC OF LECTURES

(FOR IMMEDIATE RELEASE)

The history of Chinese government will be examined in three presentations at the University of Minnesota by Li Daukai, a political science professor and head of the Section of American Government at the Institute of American Studies, Chinese Academy of Social Sciences, Beijing, China.

"Chinese Local Government: Structure and Functions" is the topic of the first presentation April 11 at 3:15 p.m. in 135 Blegen Hall. "Current Restructuring of Chinese Governments" will be the topic April 12 at 3:15 p.m. on the Campus Club Terrace in Coffman Memorial Union. On April 13 at 3:15 p.m. in the Ford Room in the Social Science Building on the west bank the topic will be "The 1982 Constitution of the People's Republic of China."

Li received his master's degree in political science in 1949 from the University of Minnesota.

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(A0,3,8b;B1;C0,3,8b)

(FOR RELEASE ANY TIME)

Feature story from the  
University of Minnesota  
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Telephone: (612) 373-7517  
April 4, 1983

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NEW TRANSPORTATION SYSTEM MAY PROVE  
GOOD THINGS COME IN SMALL PACKAGES

By Jeanne Hanson  
University News Service

Patents have been filed by the University of Minnesota for components of a new transportation system that is designed to be profitable and will not require government funding.

The system, a new style of people mover that will slide small, private vehicles along a guideway narrow enough to fit on a highway median or even a wide city avenue, will have the carrying capacity of a four-lane freeway. It took 14 years of engineering research to perfect.

Inventor J. Edward Anderson, mechanical engineering professor at the university and author of three books on personal rapid transit, has worked to combine state-of-the-art mechanical and microelectronic technology with his patentable new switch and guideway designs. "Only in a research university could we have spent this long to get the system right," he said.

Four large cities in the Midwest, West and South are considering Anderson's system for use in downtown networks and hospital complexes.

Visions of futuristic transportation systems have been offered before. Sleek, computerized trains like those in the Bay Area Rapid Transit (BART) system in the San Francisco-Oakland area were supposed to glide along, whisking people to their destinations in minutes. The famously flawed BART, responsible for much of the public skepticism about transportation technology, has become a case study in engineering ethics, Anderson said. Its major design flaws -- including a control system that allowed vehicles to "disappear" from the computer -- were pointed out nearly from the beginning by three of its engineers. Instead of fixing the system or even conducting careful test runs, officials fired the engineers, Anderson said.

(MORE)



"It was just dumb," Anderson said. BART's 20-year-old technology has been surpassed, he pointed out.

Anderson's personal rapid transit (PRT) system has been engineered to improve upon BART and the other 30-odd people mover systems built since, mostly for airports and zoos. Anderson visited almost all existing systems around the world. "Only Germany's Cabin Taxi system can rival us," he said.

The cost -- a maximum of \$7 million to \$8 million per system mile -- is less than a streetcar system and only a seventh of what Houston is currently spending to install an elevated train system, Anderson said. Costs will be kept low because vehicles need not move constantly to create a schedule nor start and stop very often since they will be parked at stations between the nonstop trips. Also, the three-passenger car is very lightweight and can be supported by a light, carefully designed prefab guideway. The system also uses very little land -- about one acre for every 27.5 acres used in a streetcar system -- little enough that with it some downtown streets might be turned into malls, Anderson said. The system incorporates the latest in microprocessors for further cost savings. And most components of the system are off-the-shelf.

Other key advantages, Anderson said, are energy efficiency and flexibility. Since the light, though tough, vehicles seldom need to brake, they are as efficient as a car that gets 70 to 90 miles per gallon of gasoline. Uses for a 20 to 30 mph vehicle system include travel in industrial, shopping or recreational parks, airports, hospitals, central business districts and campuses.

To ride Anderson's PRT, a passenger will step up to a station -- off-line so that passing vehicles need not stop -- and check a map of the system. The passenger will then punch a destination number into a computer console, which will light up to request the fare. Fares will be levied per car to encourage ride-sharing.

Once the fare is paid, the computer will dispense a magnetically encoded card like those used in automatic teller bank outlets and in some subways and garages. The passenger will take the card to the first empty car in line (computer routing

will keep three cars at each station) and slide the card into a slot in front of it. The vehicle door will open automatically, but will be locked manually from the inside to ensure privacy and safety. For added safety, all stations will be surveyed by TV monitors to reduce vandalism and other crime. The lock will signal the electrically powered vehicle to move. All these electronic systems, including the central computer to regulate the flow of vehicles, have been in use separately for years, Anderson said.

The guideway, one of the patentable inventions, is only 32 inches wide and 39 inches deep, but its aboveground truss structure -- a design of horizontal and diagonal steel parts, all sharing the stress -- is extremely strong.

Attached to the vehicle are the switches, Anderson's other main invention. Like simple pivoting Ws, they have no moving parts within the guideway itself, making close spacing between vehicles practical and repairs easier. All systems will be fully tested with 12 vehicles before on-site construction begins anywhere, he said.

Anderson is eager to get the system moving. He and the university will form a corporation within several months to develop and market this technology. He lacks only a name for his system; send suggestions to him at 115 Mechanical Engineering Building, 111 Church St. S.E., University of Minnesota, Minneapolis, MN 55455.

"The climate is ripe for a revolution in transportation right now like the one that happened 100 years ago when streetcar technology really took off," Anderson said. New developments like these usually occur outside the mainstream of the transit industry, he said.

The challenge is to "convince people to walk past the car already in the driveway and go use a system like this," said Fred Beier, management sciences professor at the University of Minnesota and an expert on transportation. "Specific corridors where there is a sufficient population of travelers are indeed the best bet," he added.

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

'LYSISTRATA,' AN ANCIENT PLAY WITH A  
MODERN MESSAGE, NEXT 'U' THEATER PRODUCTION

(FOR IMMEDIATE RELEASE)

"Lysistrata," the bawdy comedy written in 411 B.C. to relieve tensions created by the war between Athens and Sparta, will open April 15 and run through May 1 at University Theatre on the west bank of the University of Minnesota Minneapolis campus.

Action in "Lysistrata" centers on the alliance that unites the women of Greece in a sexual strike to end the civil war. The resulting strife provides some of the best comic moments in literature.

"Rehearsing the male-female power struggle in 'Lysistrata' has made the company acutely aware of the play's relevance to present-day society and personal relationships," said director Terie Spencer Barker, a graduate student in directing. "Our country is not engaged in a civil war, but the male-female war for power permeates our lives."

Lizanne Wilson, a graduate student from LaGrange Park, Ill., is cast in the title role. Last fall Wilson had a starring role in the University Theatre production of "Scapino!" and has played Helena in "A Midsummer Night's Dream."

Linda Wallen, a senior theater major from Rockford, Ill., will play Kleonike; Cathy Hurst, a graduate student from Plantation, Fla., has the role of Myrrhine.

David Rasmussen, who was cast in the title role in the University Theatre production of "You're A Good Man, Charlie Brown" earlier this year, will play the commissioner of public safety. He is a graduate student majoring in acting and is from Colorado Springs, Colo.

Curtain will be at 8 p.m. for the Thursday, Friday and Saturday performances and at 1 p.m. on Sundays.

Tickets are \$5 for the public and \$4 for students and senior citizens. University of Minnesota faculty and staff may attend Thursday and Sunday performances for \$4. Group rates are available for 25 or more persons. For ticket information, call (612) 373-2337.

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

SUICIDE AND CARE PROVIDERS  
TOPIC OF U OF M CONFERENCE

(FOR IMMEDIATE RELEASE)

The challenges suicide creates for health-care providers will be the subject of a University of Minnesota conference May 9 and 10 at the Holiday Inn in downtown Minneapolis.

National and local experts on suicide and health and human services will discuss the complex issues surrounding suicide. Major topics will include assessment of potential victims, treatment and prevention of suicide and the responsibilities of health care providers. The special needs of specific groups such as adolescents, the elderly, the chronically ill and survivors also will be examined.

Registration for the two-day conference, which is being sponsored by the university's departments of continuing nursing education and continuing education in social work, is \$95 for both days and \$50 for a single day.

For more information, contact Judy Beniak or Mary Kay Wood, 107 Armory Building, 15 Church St. S.E., University of Minnesota, Minneapolis, MN 55455 or (612) 373-5831.

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APRIL 4, 1983

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NEWS PEOPLE: For more information  
contact J. PAUL BLAKE, (612) 373-7501  
or Margaret Michaelson, (612) 941-7908  
or U China Center, (612) 376-2593

FILMS SHOW HUMAN SIDE  
OF CHINA

(FOR IMMEDIATE RELEASE)

"The Human Face of China," a series of films about the people of China, will be presented at 2 p.m. April 10 in room 370 Anderson Hall on the University of Minnesota west bank.

"One Hundred Entertainments" is a penetrating behind-the-scenes look at contemporary Chinese artists at work. "Something for Everyone" follows the working day of a family as its members harvest crops, go to school and work in the factories of a commune. "It's Always So in the World" shows the many aspects of urban life in China's largest city, Shanghai. "Son of the Ocean" takes viewers on a voyage down China's Yangtze River. "Mind, Body and Spirit" shows how East meets West and old meets new in China's health care system.

The full color films, produced in 1979, are in English.

Cost for the program, sponsored by the U.S. China People's Friendship Association (USPCFA) and the University of Minnesota China Center, is \$1.50. USPCFA members will be admitted free. Refreshments will be provided.

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APRIL 6, 1983

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MAY  
9 1983

NEWS PEOPLE: For further information  
contact JEANNE HANSON, (612) 373-7517

GIFT TO U OF M REVEALS  
A BIG HEART

(FOR IMMEDIATE RELEASE)

When the widow of a 1939 graduate of the University of Minnesota learned that the stock her husband had left to the university had lost its value, she decided to make good on her husband's gift and even better it -- 10 times better.

The will of John R. McCarthy, who died last May, included a \$1,000 gift of stock to the Akerman Fund of the aeronautical engineering department. But by the time the estate was settled, the stock was worthless.

This did not deter McCarthy's widow, Elizabeth Rosaker McCarthy, a 1939 business administration graduate of the university. With the help of her husband's friend Don Lampland, president of the class of '39, Mrs. McCarthy arranged to contribute \$10,000 over four years to the Akerman Fund.

Mrs. McCarthy, who is suffering from a brain tumor, traveled from San Francisco to carry out her husband's wish. Lampland, a St. Paul resident and an engineer at Control Data, took care of the local details.

"It was (made) in memory of 'Bud' McCarthy because he loved the university and especially the aeronautical engineering department," said Lampland, who was a classmate of McCarthy in that department. The Akerman Fund was named for John D. Akerman, who founded the department, and is used for short-term hiring of engineers from industry to instruct students on practical engineering problems.

McCarthy, a Navy pilot during World War II, was shot down over Pearl Harbor and survived the Battle of Midway. After leaving the Navy as a lieutenant commander, McCarthy became a test pilot for the forerunner of the Federal Aviation Administration and later worked for Garrett Industries, an aerospace company in Los Angeles.

The gift was received by acting department chairman Gordon Beavers, Institute of Technology Dean Roger Staehle and others Tuesday (April 5) in a brief ceremony.

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CORRECTION

The Sunday curtain time for University Theatre performances of "Lysistrata" was listed incorrectly in the April 4 University of Minnesota News Service release on the play's opening. The correct time is 3 p.m.

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UNIVERSITY OF MINNESOTA  
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APRIL 7, 1983

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STUDENTS STILL LOSING GROUND IN  
SCIENCE AND TECHNOLOGY, STUDY SAYS

(FOR IMMEDIATE RELEASE)

High school students are continuing a decade-long decline in achievement and interest in science and technology, but elementary students show some signs of improvement, a national study has found.

A random sample of 18,000 students from throughout the country compared the knowledge and attitudes about science exhibited by 9-, 13- and 17-year-olds to those in a 1977 study. The 1982 survey is the fourth in a series begun in 1970 and repeated in 1973 and 1977 through support by the National Science Foundation.

"The fact that secondary school students -- both 13- and 17-year-olds -- showed declining interest in science, and high school students continued their achievement decline should be a major concern for policymakers," said Wayne W. Welch, the University of Minnesota education professor who conducted the study in collaboration with the National Assessment of Educational Progress.

"We live in an increasingly technological age that requires a science-literate citizenry," Welch said. "To date, our youth lack many of the attributes necessary for scientific literacy."

Welch will present his findings at the annual meeting of the National Science Teachers Association in Dallas Sunday (April 10).

For the first time since the assessment began, one group -- the 9-year-olds -- showed a slight increase in achievement, especially on questions related to science and society. Students in each group indicated they are more active in doing things that address societal problems such as energy conservation and pollution, but they are more pessimistic that what they do will solve the problems, Welch said. This feeling of helplessness is most pronounced among the 17-year-olds, he said.

(MORE)



Among the 13-year-olds, overall interest in science has dropped, even though participation in science activities has increased, primarily in involvement with computers, Welch said.

Males continue to outperform females at each age. Differences noted in previous assessments among racial groups and among geographic regions have diminished slightly, especially on the attitude measurements, Welch said. "This provides some hope for the success of the various equity programs mounted in recent years."

Major findings about the 17-year-olds include:

--A decline of 2 percent on science-achievement questions. This follows previous declines of 2.8 and 1.9 percent.

--A decline in overall interest in science, especially in the value of science (6.6 percent) and socio-science responsibility. However, increases were noted on interest in science careers and science activities.

--Male students still outscoring females by 3.3 percent, though that lead has slipped from 4.2 percent in 1977.

--Racial differences down by about 1.5 percent with whites still outscoring non-whites by 15 percent.

The study found that among 13-year-olds:

--There is no change in scores on questions testing science achievement.

--Attitudes toward science classes, teachers, science careers and the value of science are down 2.8 percent.

--Males continue to outperform females, with the difference slightly greater than the previous measurement at 3.4 percent.

--Racial differences still exist, but black males have narrowed the gap.

Among the 9-year-olds, the study found:

--A 1 percent gain in science achievement scores was the first positive change at any age level in four science assessments.

(MORE)

STUDY

-3-

--Sex differences remained steady, with males having less than a 1 percent advantage.

--Overall attitudes toward science were unchanged, but socio-science responsibility and the use of scientific methods were down.

National data on the use of computers, the influence of television, science enrollments, race and sex differences, science anxiety and science budgets were gathered and will be published during the next several months, Welch said.

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(AO,4,14,16;B1,11;CO,4,14,16;  
DO,4,14,16;EO,4,14,16)

UNIVERSITY OF MINNESOTA  
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APRIL 7, 1983

NEWS PEOPLE: For further information  
contact RALPH HEUSSNER, (612) 373-5830

PUBLIC FORUM WILL FOCUS  
ON ALLERGIES AND ENVIRONMENT

(FOR IMMEDIATE RELEASE)

A public forum on allergies and the environment will be held April 21 from 7 to 9 p.m. in the Mayo Auditorium at the University of Minnesota.

The program, sponsored by the Minnesota Chapter of the Asthma and Allergy Foundation of America, is geared to the general public. Admission is free.

A panel of experts will discuss the latest in research and treatment related to allergies and the environment. The panel will include Dr. G.A. DoPico, University of Wisconsin; Dr. J. Fink, Medical College of Wisconsin; Barbara Hughes, American Lung Association; and Laura Oatman, Minnesota Department of Health.

Dr. Malcolm Blumenthal of the University of Minnesota will serve as moderator.

Mayo Auditorium is adjacent to the main hospital building at 425 Delaware St. S.E. on the Minneapolis campus.

For more information, contact Blumenthal at (612) 373-4328.

-UNS-

(A0,3,23;B1,4;C0,3,23)

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NEWS PEOPLE: For further information  
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U OF M MEDICAL SCHOOL DEAN RESIGNS  
TO RETURN TO TEACHING, CLINICAL DUTIES

(FOR IMMEDIATE RELEASE)

Dr. N. L. Gault Jr., dean of the University of Minnesota Medical School since 1972, announced Friday (April 8) he will to resign from that post to return to teaching and patient care.

Gault told the university Board of Regents that he will remain as chief administrator of the school until a replacement is found. A search committee will be named by Dr. Neal Vanselow, vice president of health sciences.

"I have looked upon the job of dean as a doctor for healthy people -- students and faculty. It was a tremendous opportunity," Gault said. "However, I feel that I now want to prepare myself for another decade with different kinds of challenges and opportunities."

Following the appointment of a new dean, Gault said he plans to take a one-year sabbatical for retraining in geriatric medicine. He will then rejoin the Medical School faculty in the department of medicine.

Gault received his doctor of medicine degree from the university in 1951. He entered medical school in 1946 after serving for three years as an executive officer at a 1,000-bed United States Air Force Hospital in Fresno, Calif.

He joined the Medical School faculty in 1953, where he remained until 1967 when he became associate dean and professor of medicine at the University of Hawaii Medical School. He returned to Minnesota in 1972.

"While I have thoroughly enjoyed the experience, I believe that it is healthy for an institution to have a new dean with new ideas," he said. "The most satisfying thing for me during my career as dean was to be associated with an extremely talented faculty of teachers and scientists."

(MORE)

"Dean Gault has done an outstanding job as dean of one of the country's best and largest medical schools," Vanselow said. "His unique sensitivity to the needs of others has earned him the respect of faculty, practicing physicians and students whose lives he has touched. He will not be an easy person to replace."

In addition to his job as chief executive of the Medical School, which has more than 3,000 students in various health professional courses and 950 full-time faculty, Gault has been active in the field of international medical education.

He has served as a consultant to the Agency for International Development and as an adviser to medical colleges and hospitals in Korea, Lebanon, Japan, Turkey, Indonesia and South America. In recognition of his work in developing medical education in Japan, Gault received the Supreme Award of the Japan Medical Association in 1969. He was one of only two Americans to be so honored that year.

Gault has also held a leadership role in many professional and scientific societies, including the American Association of Medical Colleges, the Minnesota Medical Association and the Minnesota chapter of the Arthritis Foundation. He has served on the board of directors of the Minnesota Medical Foundation and the University of Minnesota Campus Club.

Gault, a native of Austin, Texas, is married to Dr. Sarah Jane Dickie Gault. They are the parents of three children and live in St. Paul.

-UNS-

(A0,1,23,24;B1,4;C0,1,23,24;E15;23;24)

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NEWS PEOPLE: For further information  
contact ELIZABETH PETRANGELO, (612) 373-7510

U OF M REGENTS WRESTLE  
WITH TUITION ISSUES

(FOR IMMEDIATE RELEASE)

The tough issue of tuition increases faced the University of Minnesota Board of Regents Friday (April 8) as it began weighing the pros and cons of carrying the current tuition policy to its logical conclusion.

Questions of enrollment decline, fairness to and competition for students and financial impact on the institution will figure prominently in the board's tuition discussions during the coming months.

Kenneth Keller, vice president for academic affairs, told the board that if expected tuition increases during the next four years are across-the-board, more students will be lost and university revenue will be lower than if the increases are applied college by college.

However, if future tuition increases are calculated by college, he said, "tuition increases for some students will be considerably lower than the average increase, but for some students, the increases will be considerably higher."

Quarterly tuition for university students differs from college to college within the institution. Current regents' policy calls for tuition to be adjusted gradually over the coming years so that all students pay a similar percentage of what it costs to educate them.

Education costs in certain colleges and professional schools, such as the Medical School or the Graduate School, are significantly higher than in such low-cost areas as lower division College of Liberal Arts.

Keller told the board it could consider using the extra revenue generated by differential tuition increases to beef up financial aid available to students hardest hit by rising costs.

(MORE)

Regent David Lebedoff said that if the current formula of tuition calculated by cost of education continues, large tuition increases in certain colleges could change the type of education available to students.

"The university has traditionally been a door that students could pass through to change their lot in life," he said. "A program like this will mean that poor students will be able to take one kind of class and not-so-poor students will be able to take another. That has enormous social implications."

University President C. Peter Magrath said that while the fiscal implications of across-the-board versus differential tuition increases are "not irrelevant ... they do need to be weighed against fairness and equity."

He said the board has several options, including putting the current cost-related tuition policy on hold, reversing it or slowing the pace at which adjustments from college to college are made.

Lebedoff cautioned the board to avoid "letting the tail wag the dog." Rather than using current tuition policy to predict future revenue and enrollment trends, he said, the board should determine which future consequences are most desirable and then calculate tuition policy.

Using the cost-related model without some modification would price professional schools at the university out of the market, Keller said. For a cost-related model to be workable, limits would have to be placed on professional school tuition.

Keller suggested letting the university's overall tuition rank among Big Ten schools dictate limits. Since the university's tuition is now the third highest in the Big Ten, tuition in professional schools should not be raised so that they are any higher than third in the Big Ten.

Keller also suggested that current tuition rates for out-of-state students be lowered from existing regents' policy, which places it at 2.7 times the cost of in-state tuition. Bringing it down to twice the rate would eliminate problems now faced by certain colleges and schools that now must charge more than other universities that draw from the same pool of potential students.

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APRIL 8, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
April 13-19

Wed., April 13--Paul Whitney Larson Gallery: Watercolors by Marija Skutans Netz. St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through April 22. Free.

Wed., April 13--Coffman Union Gallery: B.F.A. show: Sculptures and drawings by William Dobbs and drawings and paintings by John Goulet, Gallery 1. "Neo-plastic Paintings-Reliefs-Konstrukt" by James Kern, Gallery 2. 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Through April 13. Free.

Wed., April 13--University Gallery: "George Morrison: Entries in an Artist's Journal," through May 1. "Lars Sonck, 1870-1956: Finland's Romantic Architect," through May 29. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

Wed., April 13--Film: "An American in Paris" (1951). Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

Wed., April 13--University Film Society: "The Night of the Shooting Stars" (Italy, 1982). Bell Museum of Natural History aud. 7:30 and 9:30 p.m. \$3. Information: 373-5397.

Wed., April 13--University Film Society: "The Tree of Knowledge" (Denmark, 1982). 7:30 p.m. "Broken Sky" (Sweden, 1982). 9:15 p.m. 125 Willey Hall. \$3. Information: 373-5397.

Thurs., April 14--University Film Society: "The Night of the Shooting Stars" (Italy, 1982). Bell Museum Natural History aud. 7:30 and 9:30 p.m. \$3. Information: 373-5397.

Thurs., April 14--University Film Society: "Witch Hunt (Norway, 1981). 7:30 p.m. "The Farewell" (Finland/Sweden, 1982). 9:30 p.m. 125 Willey Hall. \$3. Information: 373-5397.

Fri., April 15--School of Music: Collegium Musicum. 19 Scott Hall. 1 p.m. Free.

Fri., April 15--Film: "Caddyshack." Theater-lecture hall, Coffman Union. 1:30, 7 and 9:10 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

Fri., April 15--University Community Video: 10th anniversary celebration featuring a balloon sculpture launch, refreshments, live contemporary music, a retrospective of videotapes and interactive video events. 425 Ontario St. S.E., Minneapolis. 5 p.m. Information: 376-3333.

Fri., April 15--University Film Society: "Repeat Dive" (Israel, 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3, \$2 matinee. Information: 373-5397.

Fri., April 15--Bijou film: "Casablanca" (1942). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

(OVER)



Fri., April 15--Reading: June Jordan, popular poet, essayist. 337 Coffman Union. 8 p.m. Free

Fri., April 15--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

Sat., April 16--University Film Society: "Repeat Dive" (Israel, 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3, \$2 matinee. Information: 373-5397.

Sat., April 16--Film: "Caddyshack." Theater-lecture hall, Coffman Union. 7 and 9:10 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

Sat., April 16--Concert: Classical and Greek folk music featuring clarinetist Peter Cokkinias, and pianist Richard Zgodava. 125 Willey Hall. 7:30 p.m. \$6, \$3.50 for U of M students with current fee statements. Information: 376-1307.

Sat., April 16--Bijou film: "Casablanca" (1942). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

Sat., April 16--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

Sun., April 17--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 3 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

Sun., April 17--University Film Society: "Repeat Dive" (Israel, 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3, \$2 matinee. Information: 373-5397.

Sun., April 17--Film: "Caddyshack." Theater-lecture hall, Coffman Union. 7 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

Sun., April 17--Dance band: Go Great Guns. Whole Coffeehouse, Coffman Union. 8 p.m. \$1.50.

Sun., April 17--School of Music: Faculty recital: Nancy Rosen, violin; Robert Jamieson, cello; Gwen Goldsmith, piano. Scott Hall aud. 8 p.m. Free.

Mon., April 18--University Film Society: "Repeat Dive" (Israel, 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Tues., April 19--University Film Society: "Asian-American Women." (U.S.A., 1981). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

UNION PACIFIC HEAD TO RECEIVE  
TOP U OF M HONOR

(FOR IMMEDIATE RELEASE)

William S. Cook, president and chief executive officer of the Union Pacific Corp., will receive an Outstanding Achievement Award from the University of Minnesota Wednesday (April 13).

The award, which is the highest honor the university gives its alumni who have achieved distinction in their fields, will be presented to Cook at the School of Management's annual Business Day dinner at the Radisson St. Paul Hotel.

Cook, a native of Duluth and a 1948 graduate of the university, began his career with Union Pacific in 1969 as vice president for finance. He is a director of the Federal Reserve Bank of New York, the Stauffer Chemical, Boise Cascade Corp. and Royal Group Inc.

He was the 1980 crusade chairman of the New York division of the American Cancer Society and is a member of the Columbia University Business School Advisory Council and the Consolidated Corporate Fund Committee of the Lincoln Center.

He began his career in finance in 1948 with General Electric, where he worked 14 years. In 1962 he joined the Pennsylvania Railroads, which merged with New York Central Railroads into Penn Central in 1968. Cook was vice president and comptroller for Penn Central for a brief period before taking a similar position at Ebasco Industries, a diversified investment company.

-UNS-

(A0, 12, 12a; B1; C0, 12, 12a; E12, 12a)

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NEWS PEOPLE: For more information  
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or GARY DEVANSKY, VA MEDICAL CENTER,  
(612) 725-6767, extension 6542

RESEARCH COULD LEAD TO APPROVAL OF  
TREATMENT FOR ALCOHOLISM

EMBARGOED FOR RELEASE UNTIL APRIL 13

New research findings on cyanamide, a drug that creates severe reactions to drinking without the side effects of existing drug therapy, may help clear the way for its approval by the Food and Drug Administration.

Although a similar drug, a citrated calcium salt called Temposil and Dipsan abroad, is already in use in Canada, Japan and the Netherlands, the drug has not been approved by the FDA because until now researchers did not know how it works within the body.

Findings on how cyanamide works were announced Wednesday (April 13) at the national meeting of the Federation of American Societies for Experimental Biology in Chicago by researchers from the Minneapolis Veterans Administration Medical Center and the University of Minnesota.

The researchers have made two major findings about cyanamide: It is metabolized by the body into a chemical called acetylcyanamide, which is excreted in the urine very quickly; and it could affect members of various ethnic groups very differently.

Cyanamide's pharmacological effects are already known to be quite like those of Antabuse, long available by prescription in this country. Both drugs block the enzyme that processes acetaldehyde, the body's main metabolite of all alcoholic beverages. This causes the alcohol chemical to build up in the body, making drinking very unpleasant. A drinker soon becomes severely distressed with flushing, headache, nausea, vomiting and difficulty breathing, creating an aversion to alcoholic beverages. The drugs therefore can serve as valuable adjuncts to psychotherapy and counseling.

(MORE)

But a key difference between cyanamide and Antabuse is the lack of serious side effects from the cyanamide, said Herbert Nagasawa, professor of medicinal chemistry at the University of Minnesota and principal scientist at the VA medical center. Cyanamide acts only on the relevant alcohol processing enzyme, but Antabuse also interferes with other enzymes, including the liver enzyme that metabolizes other medications and an enzyme involved in the body's normal adrenalin system. Both are potentially serious side effects.

Cyanamide's effect on alcohol in the body was discovered accidentally elsewhere, said Frances Shirota, the research chemist at the VA hospital who presented the results of the international study for the research team, which includes Nagasawa, Eugene Demaster and Chul-Hoon Kwon.

Calcium cyanamide, a mineral form of cyanamide, was being manufactured as a fertilizer. Workers in these plants soon discovered a peculiar effect of their job: Their after-work drink made them sick.

The general metabolism of cyanamide was discovered by the researchers in a series of tests on rats, rabbits and dogs. They synthesized metabolites until they found the one that matched the chemistry in the urine, uncovering a metabolic process called acetylation. It was known to occur with some organic drugs but was not expected with cyanamide, an inorganic substance much like potash. The resulting chemical, acetylcyanamide, turned out to be produced quickly -- within eight hours, depending upon the genetic makeup of the animal -- by the body enzyme acetyl-S-CoA dependent N-acetyl-transferase. Through urine samples from abroad they also discovered that people metabolized it in the same way.

Differences in the way ethnic groups process drugs are not so rare, Nagasawa said. At least three types of drugs -- one kind of antihypertensives, one kind of anti-tuberculous drug and most of the sulfa class of antibiotics -- about 15 to 20 drugs in all, are already known to have this effect, called genetic acetylation polymorphism.

In the case of cyanamide, the ethnic differences are dramatic enough to change

(MORE)

the effective dosage of the drug, Shirota said. Some 90 percent of people of Asian origin and some 75 percent of American Indians, for example, metabolize the drug very rapidly, but only 45 percent of blacks, Thais and Hindu Indians, 34 percent of Caucasians and 32 percent of Middle Eastern people do so. The others in these groups show very slow internal processing of the drug. Much higher dosages are needed for the rapid metabolizers and much lower ones for the slow metabolizers.

Once perfected and introduced into this country, cyanamide could encourage abstinence for anyone who wanted to give up drinking, Nagasawa said.

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(AO,4c,23,24;B1,4,12;CO,4c,23,24;  
DO,4c,23,24;EO,4c,23,24)

UNIVERSITY OF MINNESOTA  
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APRIL 11, 1983

MTR  
1247  
9:44p

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OR JAYNE MARECEK, (612) 376-9781

ATLANTA MAYOR ANDREW YOUNG TO DISCUSS  
WORLD DEVELOPMENT IN CARLSON LECTURE

(FOR IMMEDIATE RELEASE)

Atlanta mayor Andrew Young will discuss world development and peace April 22 as part of the Carlson Lecture Series of the University of Minnesota Hubert H. Humphrey Institute of Public Affairs.

The 51-year-old former U.N. ambassador will discuss his ideas for achieving world peace -- among them internationalizing the economy -- during the noon lecture in Northrop Auditorium on the east bank of the Minneapolis campus. Young's lecture is open to the public at no cost. KUOM-AM 770 will broadcast the speech live.

Young became mayor of Atlanta in January, making him one of 18 black mayors of major U.S. cities. He served as the Carter administration's U.N. ambassador from January 1977 through September 1979. During that time he was also a member of Jimmy Carter's cabinet and the National Security Council.

In 1972 Young became the first black Congressman from Georgia since Reconstruction. He was re-elected to that seat in 1974 and 1976. In 1976 he was chairman of the Democratic National Committee's national voter registration campaign.

Young was a close associate of Dr. Martin Luther King during the 1960s and participated in major civil rights activities, including the Birmingham Movement of 1963, which led to the Civil Rights Act of 1964. He has been a pastor in Alabama and Georgia, an executive of the Southern Christian Leadership Conference and chairman of the Atlanta Community Relations Commission.

The Carlson Lecture Series was established through a gift from Curtis L. Carlson, founder and chairman of the board of the Minneapolis-based Carlson Companies, to bring distinguished world leaders to the Humphrey Institute to speak on current topics of interest to the public.

Previous speakers have included U.N. Ambassador Jeane Kirkpatrick, Arizona Sen. Barry Goldwater and former Vice President Walter Mondale.

-UNS-

(A0,3,8,8c,13;B1,17;C0,3,8,8c,13;D3,8,8c)

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NEWS PEOPLE: For more information  
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U OF M TO DEDICATE NEW  
VETERINARY FACILITIES

(FOR IMMEDIATE RELEASE)

The nation's newest and possibly most modern veterinary care clinical facility will be dedicated April 22 through 24 in ceremonies on the University of Minnesota's St. Paul campus.

The annual college open house and public tour of the Animal Science/Veterinary Medicine building will be held April 24 from 10 a.m. to 4 p.m.

The three-story building houses clinics and other treatment facilities for large and small animals, as well as offices for faculty and staff. The new facilities provide more wards for large animals, operating space and laboratories.

The third floor of the building will be named the Lewis Hospital for Companion Animals in tribute to Dr. B. Robert Lewis, a veterinarian and former state senator who died in 1979. Lewis, who operated small animal clinics in Golden Valley and St. Louis Park, was Minnesota's first black state senator.

The university honors committee decided to name the facility for Lewis because, according to Dean Robert Dunlop, he was a "very humanitarian person, highly regarded as a legislator and a member of the veterinary profession."

The dedication ceremony will be held at 2 p.m. April 22. The "All College Reunion Day" with lectures, tours and a recognition dinner for alumni will be held April 23.

The open house is sponsored by the veterinary college student group.

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(A0,30;B1,3;C0,30;D30;E30)

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NEWS PEOPLE: For more information  
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ILLUSION MIXES WITH REALITY IN  
U OF M GRADUATE STUDENT'S ART

(FOR IMMEDIATE RELEASE)

An exhibition of paintings by University of Minnesota graduate student Mary Burke, whose work is included in the permanent Pillsbury Collection, will run from April 18 through May 4 at Gallery One in Coffman Union on the Minneapolis campus of the University of Minnesota.

The exhibition's theme, "Transformed Passages," pairs illusion with reality, taking an everyday object or space, a door, a window or a room, and creating an imaginary situation, transforming the realistic into something fanciful for the viewer.

In "Room for Dreaming," an acrylic work, Burke has taken an ordinary room and turned it into one with a mysterious, magical atmosphere.

In her oil on canvas work titled "His Chair," Burke has portrayed a more realistic setting, with strange things happening in the room in which the chair sits.

The exhibition is free and open to the public. A reception is scheduled for 7 to 9 p.m. on April 18 at Gallery One on the first floor of Coffman Union.

Gallery hours are 10 a.m. to 3 p.m. Monday, Wednesday, Thursday and Friday and 10 a.m. to 7 p.m. Tuesday.

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NEWS PEOPLE: For further information  
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U OF M PSYCHOLOGIST TO HEAD  
MENTAL HEALTH GROUP

(FOR IMMEDIATE RELEASE)

University of Minnesota psychology professor Norman Garmezy will chair a mental health research network recently formed to examine what part environment plays in the development of major mental illness.

The network is the third established through funding by the John D. and Catherine T. MacArthur Foundation of Chicago. It will bring together internationally known investigators in psychiatry, psychology, biology, genetics, epidemiology and sociology. Each of the networks is funded for five years at about \$1 million per year.

The new network will examine risk and protective factors in patients with schizophrenia, antisocial personality disorders and affective disorders such as depression and manic-depressive illnesses.

"Researchers, for example, find that particular environments constitute a risk factor for psychiatric disorder among those with a genetic tendency toward illness," said William Bevan, vice president of the foundation and director of its health program. "Yet despite genetic susceptibility, there are also children and adults who do not succumb. What factors in their environment protect them from mental illness and make them resilient is a question the network participants will give major attention."

The network includes record groups at Maudsley Hospital, London; the University of California, Irvine; the University of California, Los Angeles; Washington University, St. Louis; and Yale University, New Haven, Conn.

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NEWS PEOPLE: For further information  
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34TH ANNUAL CAMPUS CARNI WILL RAISE  
MONEY FOR CHILDREN'S HEART FUND

(FOR IMMEDIATE RELEASE)

More than 2,000 University of Minnesota students are putting together a three-day party in the hope of raising at least \$40,000 for charity next week.

Campus Carni, the nation's largest student-run fund-raiser, will be held April 21 through 23 in the University Field House on the Minneapolis campus. About 32 food and game booths and a variety of entertainment sponsored by 65 student organizations will be part of the 34th annual carnival.

The Children's Heart Fund, a private, non-profit corporation in Minneapolis, will receive the proceeds from this year's Campus Carni. The organization was established in 1969 to provide corrective heart surgery to indigent children from throughout the world. The corporation also sets up surgical units in developing countries and trains medical personnel in the United States and abroad.

Last year's carnival, attended by about 20,000 people, raised \$40,000 for the Children's Heart Fund. Each year's goal is to top the previous year's earnings.

Since 1949 thousands have attended the fund-raiser to watch students perform in dancelines and bands. The carnivals have earned more than a quarter of a million dollars for charity.

Tickets for the carnival are \$3 if purchased in advance at Dayton's, the MSA store in Coffman Union on the Minneapolis campus or at the Campus Carni office at 720 Washington Ave. S., Minneapolis. Tickets sold at the door will be \$3.75. Carnival hours are 7 p.m. to midnight April 21; 7 p.m. to 1 a.m. April 22 and 23.

For more information, contact the Campus Carni office at (612) 376-5533.

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(A0,2,7;B1,13;C0,2,7)

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NEWS PEOPLE: For more information  
contact PAUL DIENHART, (612) 373-7512

U OF M GUGGENHEIM FELLOW  
WILL RESEARCH CHINESE POETRY

(FOR IMMEDIATE RELEASE)

Pauline Ruth Yu, associate professor of humanities and East Asian studies at the University of Minnesota, has been awarded a Guggenheim Fellowship to write a book on Chinese poetry. She is the only Minnesotan to receive a 1983 Guggenheim award.

Yu will use her \$19,000 fellowship to supplement her sabbatical salary from July through the summer of 1984. She will spend the time doing the traveling and research for a book on imagery in Chinese poetry. Her book will start with the first anthology of Chinese poetry, published in the sixth century B.C., and will examine poetry through the T'ang Dynasty (A.D. 618 to 907).

For 1983, the John Simon Guggenheim Memorial Foundation awarded fellowships totaling \$5.5 million to 292 scholars, scientists and artists. The 59th annual competition had 3,571 applicants for the awards.

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(A0,8b,15;B1;C0,8b,15;D8b,15;E8b,15)

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APRIL 15, 1983

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NEWS PEOPLE: For more information  
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AWARD-WINNING WRITER PAUL FUSSELL  
TO DELIVER U OF M'S BEACH LECTURE

(FOR IMMEDIATE RELEASE)

Paul Fussell, contributing editor of Harper's and The New Republic magazines and an award-winning literary critic, will deliver the 25th annual Joseph Warren Beach Memorial Lecture April 20 at 8 p.m. in 2-650 Health Sciences Unit A at the University of Minnesota. Fussell's talk, "Writing in Wartime, the Uses of Innocence," is free and open to the public.

Fussell won a National Book Critics Award and a National Book Award for his 1975 work, "The Great War and Modern Memory," a study of how World War I changed our consciousness. Critic Lionel Trilling called it "one of the most deeply moving books I have read in a long time." Fussell is an English professor at the University of Pennsylvania.

Joseph Warren Beach was a professor of English at the University of Minnesota from 1907 until his retirement in 1948. The lecture series named in his honor has included such speakers as writers Robert Penn Warren, Mary McCarthy, Lionel Trilling and John Gardner. The lecture is sponsored by the university's department of English.

-UNS-

(A0,3;B1,8;C0,3)

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TELEPHONE: (612) 373-5193  
APRIL 15, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
April 20-26

**Wed., April 20--Paul Whitney Larson Gallery:** Watercolors by Marija Skutans Netz. St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through April 22. Free.

**Wed., April 20--Coffman Union Gallery:** MFA thesis exhibit: "Transformed Passages" by Mary Burke, Gallery 1. BFA exhibit: oil paintings and charcoal drawings by Charles Nordquist, Gallery 2. American Indian exhibit, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 4. Free.

**Wed., April 20--University Gallery:** "George Morrison: Entries in an Artist's Journal," through May 1. "Lars Sonck, 1870-1956: Finland's Romantic Architect," through May 29. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., April 20--Literary discussion:** Jessica Hagedorn. Theater-lecture hall, Coffman Union. 3:15 p.m. Free.

**Wed., April 20--Film:** "Singin' in the Rain" Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Wed., April 20--University Film Society:** "Come and Get It" (USA, 1936). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Thurs., April 21--University Film Society:** "Come and Get It" (USA, 1936). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Thurs., April 21--Theater production:** The Minneapolis Comedy All-Stars. The Theatre, St. Paul Student Center. 8 p.m. \$3, \$2 for students with current ID.

**Thurs., April 21--University Theatre:** "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Fri., April 22--Nash Gallery:** MFA thesis exhibits: Mike Bedard, prints; Vince Berg, paintings and drawings; John Ilg, paintings and drawings; Alis Olsen, photography; Linda Siemers, sculpture. Small press books and broadsides exhibit. Lower level, Willey Hall. 9 a.m.-4:30 p.m. Mon., Tues. and Fri.; 9 a.m.-7 p.m. Wed. and Thurs.; noon-4 p.m. Sat. and Sun. Through May 6. Free.

**Fri., April 22--Lecture-discussion:** Dance Theatre of Harlem. Theater-lecture hall, Coffman Union. Noon. Free.

**Fri., April 22--Film:** "Poltergeist." Theater-lecture hall, Coffman Union. 1:30, 7 and 9:20 p.m. \$1.

**Fri., April 22--University Film Society:** "Giant" (USA, 1956). 7:30 p.m. "Come and Get It" (USA, 1936). 11 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Fri., April 22--Bijou film:** "The Grapes of Wrath" (John Ford, 1940). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Fri., April 22--School of Music: University Symphony Orchestra, pops concert. Ballroom, Coffman Union. 8 p.m. Free.**

**Fri., April 22--Third Century Poetry and Prose series: Rudolfo Anaya and Simon Ortiz. 125 Willey Hall. 8 p.m. Free.**

**Fri., April 22--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.**

**Sat., April 23--Film: "Poltergeist." Theater-lecture hall, Coffman Union. 7 and 9:20 p.m. \$1.**

**Sat., April 23--University Film Society: "Giant" (USA, 1956). 7:30 p.m. "Come and Get It" (USA, 1936). 11 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.**

**Sat., April 23--Dance: Dance Theatre of Harlem. Northrop Aud. 8 p.m. \$7-\$14.50. Tickets and information at 105 Northrop, 373-2345, and Dayton's.**

**Sat., April 23--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.**

**Sun., April 24--Paul Whitney Larson Gallery: Department of Design student group show: "Quilts," an exhibition of design and technique. St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through May 13. Free.**

**Sun., April 24--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 3 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.**

**Sun., April 24--Film: "Poltergeist." Theater-lecture hall, Coffman Union. 7 p.m. \$1.**

**Sun., April 24--University Film Society: "Giant" (USA, 1956). Bell Museum of Natural History aud. 7:30 p.m. \$3. Information: 373-5397.**

**Sun., April 24--Concert: Civic Orchestra of Minneapolis. Great Hall, Coffman Union. 8 p.m. Free.**

**Sun., April 24--Dance: Dance Theatre of Harlem. Northrop Aud. 8 p.m. \$7-\$14.50. Tickets and information at 105 Northrop, 373-2345, and Dayton's.**

**Mon., April 25--Theater production: "Redword Song, A Readers Theatre," in conjunction with Indian Awareness Week. Coffman Union mall. Noon. Free.**

**Mon., April 25--University Film Society: "Giant" (USA, 1956). Bell Museum of Natural History aud. 7:30 p.m. \$3. Information: 373-5397.**

**Tues., April 26--Dance: Hoop dancer Brian Tibbets, in conjunction with Indian Awareness Week. Coffman Union mall. Noon. Free.**

**Tues., April 26--Video presentation: "Living Traditions," in conjunction with Indian Awareness Week. Theater-lecture hall, Coffman Union. Noon. Free.**

**Tues., April 26--University Film Society: "Marianne and Juliane" (Germany, 1981). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.**

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9/24/83

NEWS PEOPLE: For further information  
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'ORPHAN INVENTIONS' MAY NEED SAME  
TAX BOOST AS 'ORPHAN DRUGS'

(FOR IMMEDIATE RELEASE)

These are "orphan inventions": an indoor-outdoor cart for quadriplegics who must lie on their stomachs; a moving stool for people on crutches; and a paper money-handler that would enable the handicapped to make change as cashiers at ticket booths or as bank tellers.

These and other devices -- a simple mechanical arm to make eating smoother for spastics, an exercise simulator for paralyzed people and a cheap urban vehicle for the handicapped -- are in various stages of completion in the University of Minnesota's Design Lab, where mechanical rehab inventions for the handicapped are a four-year-old project of Professor Darrell Frohrib and his mechanical engineering students.

Like the "orphan drugs" recently adopted by national law, each device is of immense help, but only to a relatively few people. So profit-minded companies seldom want to manufacture and market them.

To encourage companies to invest time and money in these drugs, the federal government now allows a tax credit of 50 percent of expenses for clinical testing of drugs and devices for such rare diseases and conditions such as Huntington's disease, ALS (Lou Gehrig's disease) and muscular dystrophy, according to the January 1983 Orphan Drug Act.

"It doesn't sound as though mechanical devices for the handicapped would be covered under this law," said Stephen Scallen, professor of tax law at the university.

Each of Frohrib's inventions-in-progress would benefit perhaps only 300 to 30,000 handicapped people in the world. Only the paper money-handler might have a

(MORE)

broader market, he said. Frohrib's earlier invention -- low-pressure implantable valves to correct incontinence and impotence, done with several other researchers -- has resulted in a wide range of successful products for American Medical Systems, a high-tech firm in the Twin Cities.

Compounding the problem of the orphan inventions for the handicapped is Frohrib's desire to keep the devices low-tech and affordable -- unlike the \$50,000 wheelchair now on the market in Sweden -- and the fact that no one knows exactly how many people have which handicaps.

"There is no central clearinghouse for this information nationally or even statewide," Frohrib said, although the Rehabilitation Engineering Society of North America maintains a file of available devices. Often devices are very expensive or are prototypes offered to only a few handicapped people in local centers. Two such Twin Cities centers -- Courage Center and the Metropolitan Center for Independent Living -- now work closely with Frohrib on the needs of specific handicapped persons, as do a few local occupational therapists.

Handicapped people themselves are often the impetus for an invention, Frohrib said. "One quadriplegic came with some of his own welding done," he added.

The Design Lab, part of a course in mechanical engineering, meets throughout the year and involves 60 to 70 "near professional level" students in groups of three to five, Frohrib said. They build working models of the inventions with small amounts of aluminum, electrical components, plastic and other materials, usually donated or bought with small grants. Recently, students Brian Berling, Don Karg and Dan Weir were perfecting a small pneumatic system on the paper money-handler to lift bills better. The device is designed to be plugged in, possibly to an electric wheelchair, and to be activated by hand, foot or mouthstick, they explained.

Getting the orphan inventions onto the market -- preferably by starting a small company that would employ handicapped engineers and workers -- is one of Frohrib's dreams. "A good tax break and some sort of creative financing would probably be needed, like in the provisions of the Orphan Drug Act," he said. The market would

(MORE)



then be users, rehab agencies, occupational therapists and "fitter" agencies such as hospital equipment renters, he added.

"The idea might be worthy of commercial exploitation even without a tax deduction or credit," said law professor Scallen. "Insurance companies, veterans hospitals and health plans might offer the devices and reimburse people for them -- and medical supply companies might then be willing to manufacture them," added marketing professor Eric Berkowitz.

"High-tech is important, but simpler needs are important too," Frohrib said.

-UNS-

(A0,4,4e;B1,12;C0,4,4e;D0,4,4e;E0,4,4e)

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3/24/83

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

ARTHRITIS MEETING WILL GIVE PUBLIC  
A CHANCE TO QUIZ THE EXPERTS

(FOR IMMEDIATE RELEASE)

Experts on arthritis will discuss treatments and answer questions from the audience Saturday (April 23) at the annual meeting of the Minnesota Chapter of the Arthritis Foundation.

The session, which is open to the public, will begin at 2 p.m. in 2-650 Health Sciences Unit A on the Minneapolis campus of the University of Minnesota.

Following a 1 p.m. business meeting, there will be three concurrent one-hour information sessions, each of which will be repeated at 3 p.m.

In one session a team of three physicians -- an orthopedic surgeon, a specialist in physical medicine and a rheumatologist -- will answer and discuss questions from the audience. In another a dietitian and a registered nurse will talk about the relationship between diet and arthritis, with special attention to arthritis quackery and unproven remedies. The third session will deal with research being conducted in Minnesota.

The public may attend free of charge, but reservations are necessary. To make reservations, call the foundation at (612) 874-1201.

-UNS-

(A0,3,23,24;B1,4,8;C0,3,23,24)

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ENROLLMENT AT U OF M CONTINUES  
TO DECLINE SLIGHTLY

(FOR IMMEDIATE RELEASE)

A 1 percent drop in enrollment was reported at the University of Minnesota spring quarter with enrollment at the university's five campuses totaling 52,415 -- 566 fewer students than were enrolled last spring quarter.

The Twin Cities campus closely reflected the drop with a decline of slightly less than 1 percent. Enrollment on the system's largest campus totaled 42,451 for the spring quarter.

Two campuses -- Waseca and Duluth -- reported increases in enrollment. The 851 students at Waseca represented a 1.5 percent increase over spring of 1982. At Duluth enrollment rose by less than a percent to 6,732 students.

Of the decreases, Crookston reported the largest: 10.4 percent. The student population on that campus fell to 947 from 1,058 last spring quarter. At Morris enrollment fell by 5.9 percent to 1,434.

On the Twin Cities campus, enrollment gains by the Institute of Technology continued, with 120 more students reported this spring than last spring for an increase of 2.2 percent. The number of women in the institute rose by 17 percent over the same period last year.

The School of Management reported an increase of 7.1 percent or 99 students. With enrollment of 15,300, the College of Liberal Arts remains the largest single unit at the university despite a decline of 2.9 percent from last spring.

-UNS-

(A0,1;B1;C0,1;E15)

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APRIL 19, 1983

NEWS PEOPLE: For further information  
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U OF M TO COLLECT HAZARDOUS CHEMICALS  
FROM SCHOOL LABS ACROSS THE STATE

(FOR IMMEDIATE RELEASE)

In the country's only mass cleanup of hazardous chemicals from school laboratories, the University of Minnesota Wednesday (April 20) will begin collecting wastes from 74 schools throughout the state.

The project, which is in its second year, is expected to collect about 7,500 pounds of 300 to 400 different chemicals from 59 school districts, three state universities, five colleges and seven community colleges.

The cleanup will include a district-wide pickup at Forest Lake Wednesday, then regional pickups at Winona State University and Faribault High School May 4; at the University of Minnesota chemical shed May 5 and 6; at St. Cloud State University May 11; at the University of Minnesota's Duluth campus May 18; at Willmar Community College May 25; and at Mankato State University June 1.

"Safety is our first consideration," said Robert Silvagni, environmental engineer in the university's physical plant operations. Officials from school districts, colleges and state universities have received precise instructions on identifying, separating, packaging and labeling these chemical wastes.

The chemicals will be transported in metal drums within beds of vermiculite, in accordance with Department of Transportation and Environmental Protection Agency regulations. Workers picking up the chemicals will wear protective gear, including vapor masks, face shields, rubber boots and full rubber suits. Shock-sensitive chemicals such as picric acid -- which explode when dropped -- will not be accepted; instead, local officials will be advised to contact a bomb squad or the local sheriff's office for help in detonating these chemicals, Silvagni said. The project has been approved by the Minnesota Pollution Control Agency, he said.

(MORE)

"Once we've accumulated a semi-truck load from all sources, we'll ship the chemicals to a hazardous waste disposal site in Beatty, Nev., using our normal procedures for the university's wastes," Silvagni added. Until then -- in about a month -- the materials will be stored inside concrete buildings at the university's Agricultural Experiment Station in Rosemount, a Twin Cities suburb. The small percentage of the chemicals that will probably be useful to university science departments will be distributed to them. Other materials will be neutralized for safe local disposal.

"This will make school labs a safer operation," said David Keyes, a chemistry graduate student and coordinator of the project. Until this expert spring cleanup began last year, schools had "no safe, ecological and affordable way of dealing with the chemicals," he said. The few private sector companies that collect hazardous chemicals charge by the barrel, with rates geared to large companies that have huge volumes of only a very few kinds of chemicals. Schools with five pounds of one chemical, two ounces of another and so on, cannot afford this service, even if they can find it, Keyes explained.

Once the mass cleanup idea was proposed by Richard Clark, science consultant at the Minnesota Department of Education, the university was glad to lend its expertise, Keyes said. Before this project the university used to get many calls from schools every year to help them individually with their chemical wastes, added Stuart Fenton, chemistry professor and chairman of the committee that assesses the university's wastes.

Among the hundreds of chemicals to be collected are benzene and carbon tetrachloride (carcinogens), phosphorus (which ignites in air), various lead and arsenic compounds (heavy metal poisons), various mercury compounds (poisons), various cyanides (poisons) and corrosive materials such as hydrochloric acid and sulfuric acid, Keyes said.

The pickup service is offered at cost, he added, which is \$20 per gallon of chemical.

NOTE TO RADIO NEWS DIRECTORS:  
Taped comments by Arvonne Fraser will  
be available 4:30 p.m. April 20 to  
4:30 p.m. April 21 at (612) 376-8000.

UNIVERSITY OF MINNESOTA  
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APRIL 19, 1983

MTK  
11:17  
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contact LYNNA WILLIAMS, (612) 373-5699

POLICYMAKERS IGNORE CHANGING STATUS  
OF WOMEN, HHH RESEARCHER SAYS

(FOR IMMEDIATE RELEASE)

America's lawmakers are making public policy for a society that no longer exists when they ignore or overlook the changing economic role of women, a University of Minnesota researcher contends.

Despite the increasing numbers of women in the nation's work force, much of public policy still is based on the outdated "male-breadwinner-dependent-wife-and-children model," said Arvonne Fraser, a senior fellow at the Hubert H. Humphrey Institute of Public Affairs.

Such a model -- which overlooks the fact that nationally women now make up 43 percent of all employed persons -- "no longer fits our society, nor does it fit the diversity of women's lives," she said.

The changing status of women in the work force and in other areas of American economic life is documented in "A Statistical Look at the Economic Status of Women in Minnesota and the United States," the first publication of the Humphrey Institute's Women, Public Policy and Development Project.

Fraser, who is project director, believes that working women and the implications of their participation in the labor force will create major public policy debates in the 1980s and 1990s.

But, she said, those debates will not be confined to one issue; they will involve a wide range of social, economic and employment policies.

"Pay equity and employment benefits such as Social Security, medical care and pensions are only the tip of the iceberg," she said. "Child care and child support are two other questions for which there are no easy or simple answers. And the economic problems of displaced homemakers and older women will also be an increasing concern."

(MORE)

"Our society has been changing rapidly over the last two decades," Fraser said, and the project's report reveals the extent of some of those changes.

More women are working: Women now make up 43 percent of the total work force, up from 33 percent in 1960. In Minnesota, women aged 16 to 64 account for more than 60 percent of the labor force.

More than half the women in Minnesota with pre-school children and more than two-thirds of those with school-age children are in the labor force, the report shows. In fact, Fraser said, Minnesota women have higher employment rates than the national average, although a lower percentage of Minnesota women work full time year-round.

The statistical publication also shows that more and more women are contributing to the family support or are supporting children alone. Increasingly, poor families in the state are headed by women. According to the 1980 census, nearly one-fourth of Minnesota households are headed by women; 47.5 percent of those families with at least one child under 6 were below the poverty line.

A significant gap still exists, the publication also reports, between the earnings of Minnesota women and men. In 1982, women in the state earned 58.2 cents for every \$1 earned by men. Nationally, figures showed that women earned less than men in 1981 in every vocational area. In 1980, the median income for full-time female workers with college degrees was less than the median income for male high school dropouts.

The status of older women in Minnesota also is examined in the publication. Between 1970 and 1980, the number of women 85 and older in Minnesota increased by 70 percent, making that group the fastest growing age category in the state. Overall, the life expectancy for both men and women in Minnesota is higher than the national average.

Increasingly, Fraser said, women's organizations are shifting their attention to economic issues, in response to some of the trends shown in the report. And, she believes, as more and more women are "driven or drawn into the labor force, the debate over public policies affecting women and their families will escalate."

Copies of the report are available from the Humphrey Institute, 909 Social Science, 267 19th Avenue S., University of Minnesota, Minneapolis, MN 55455. The cost is \$1, prepaid, for three copies. Bulk rates are available on request.

UNIVERSITY OF MINNESOTA  
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APRIL 22, 1983

NEWS PEOPLE: For more information  
contact PAUL DIENHART, (612) 373-7512

MAYOR OF GARY, IND., TO SPEAK AT U OF M  
AFRO-AMERICAN, AFRICA CONFERENCE

(FOR IMMEDIATE RELEASE)

The mayor of Gary, Ind., a city that has long faced severe racial unrest and economic problems, will be the featured speaker at a three-day University of Minnesota conference on the "Economic Development of Afro-America and Africa." The conference will be free and open to the public.

Mayor Richard Hatcher of Gary will speak May 4 at 3:15 p.m. in 125 Willey Hall on the west bank of the Minneapolis campus. All other sessions of the conference will be in the West Bank Union auditorium on the lower level of Willey Hall. The conference will consider the role of U.S. economic policy in the development or underdevelopment of Afro-American and African communities.

May 4, from 9 a.m. to 12:30 p.m., speakers will discuss U.S. policies toward Africa. May 5, from 9 a.m. to noon, speakers, including a lawyer for the National Urban League and a staff member for the House small business committee, will discuss policies toward Afro-Americans. The afternoon session, from 2 to 4:30, will be "World Economy: Which Way Africa?" May 6, from 9 a.m. to 12:30 p.m., there will be an exploration of past and present links between Africans and Afro-Americans. The afternoon session, from 2 to 4:30, will be a discussion by four African graduate students at the university about their perceptions of Africans and Afro-Americans.

The conference is presented by the university's department of Afro-American and African Studies.

-UNS-

(A0,3,8,8c;B1,8;C0,3,8,8c)



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**'THE PELICAN' AND THREE CHAMBER PLAYS  
ARE 'U' THEATRE TRIBUTE TO STRINDBERG**

(FOR IMMEDIATE RELEASE)

August Strindberg's compelling psychological drama "The Pelican" will be the featured work in a three-week tribute to the Swedish playwright by the University Theatre May 2 through 22.

"The Pelican," which examines the illusions that prevent meaningful communication between individuals, is one of four "chamber plays" by Strindberg to be performed during the tribute.

Each of the four plays, which are being performed as a set for the first time in the United States, has a theme and a mood similar to the movements of a musical chamber piece.

The Arena Theatre, on the west bank of the University of Minnesota Minneapolis campus, will be the setting for "The Pelican," which will open May 6 and run through May 22. Curtain times are 8 p.m. for the Thursday, Friday and Saturday performances and 3 p.m. for the Sunday shows.

The three other plays, each to be done as workshop productions at the Experimental Theatre, are "Storm Weather," "The Burned House" and "The Ghost Sonata."

In "The Pelican," to be directed by graduate student Helene Mann, the characters are preoccupied with the pursuit of money, status and luxury objects and neglect the basic human needs. In the course of the play each character is stripped of his mask and forced to come to terms with what is underneath.

Joanna Goff, a graduate student from Ashland, Ore., will portray the mother in "The Pelican." She has been seen this year in a production of "Leonce and Lena" at the University Experimental Theatre.

(MORE)

David Conner, a junior from Bloomington who appeared in the University production of "Scapino!" last fall, will play the son Frederick.

Jeff Slinkard, a junior from New Prague, and Janet Luby, a senior from St. Louis Park, will play the son-in-law Axel and the daughter Gerda.

Each of the workshop plays will be staged once a week for three weeks. "Storm Weather" will be staged at 8 p.m. May 2 and 10 and at 5:30 p.m. May 18. "The Burned House" will be performed at 8 p.m. May 3 and 16 and at 5:30 p.m. May 11. Curtain for "The Ghost Sonata" will be at 5:30 p.m. May 4 and at 8 p.m. May 9 and 17.

For "The Pelican" tickets will be \$5 for the public and \$4 for students and senior citizens. University faculty and staff may attend Thursday and Sunday performances for \$4. Group rates are available for 25 or more persons. For ticket information, call (612) 373-2337.

Admission to the workshop productions of the three other plays is by donation.

-UNS-

(A0,2,2e;B1,13;C0,2,2e)

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

U OF M GRADUATE HONORED BY REAGAN  
FOR PEACE CORPS WORK IN MALAYSIA

(FOR IMMEDIATE RELEASE)

Joan LeClair of Minneapolis was one of six persons who this week received presidential citations naming them Outstanding Peace Corps Volunteers of 1983.

LeClair, 41, earned her master's degree in speech therapy and speech pathology from the University of Minnesota in 1978. She received the presidential award for her work in establishing a national speech therapy program in Malaysia.

On her own initiative, LeClair organized a national program for Malaysia's Ministry of Social Welfare to train speech therapists. "Joan worked literally day and night and weekends for two months to plan and design the course," said Gary Brenneman, the Peace Corps director for Malaysia, when he nominated LeClair for the award.

LeClair's mother, Mrs. Harriet LeClair, Oak Grove, Minneapolis, accepted the award for her daughter in a ceremony in the White House Rose Garden April 18. LeClair has been working for the Peace Corps in Malaysia since 1981. She is scheduled to return to the United States in August.

The Peace Corps has 5,200 volunteers in more than 60 countries.

-UNS-

(A0,12;B1;C0,12)

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APRIL 22, 1983

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UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS

April 27-May 3

**Wed., April 27--Nash Gallery:** MFA thesis exhibits: Mike Bedard, prints; Vince Berg, paintings and drawings; John Ilg, paintings and drawings; Alis Olsen, photography; Linda Siemers, sculpture. Small press books and broadsides exhibit. Lower level, Willey Hall. 9 a.m.-4 p.m. Mon., Tues. and Fri.; 9 a.m.-9 p.m. Wed. and Thurs.; noon-4 p.m. Sat. and Sun. Through May 6. Free.

**Wed., April 27--Paul Whitney Larson Gallery:** Department of Design student group show: "Quilts," an exhibition of design and technique. St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through May 13. Free.

**Wed., April 27--Coffman Union Gallery:** MFA thesis exhibit: "Transformed Passages" by Mary Burke, Gallery 1. BFA exhibit: oil paintings and charcoal drawings by Charles Nordquist, Gallery 2. American Indian exhibit, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 4. Free.

**Wed., April 27--University Gallery:** "George Morrison: Entries in an Artist's Journal," through May 1. "Lars Sonck, 1870-1956: Finland's Romantic Architect," through May 29. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., April 27--Video presentation:** "The 7th International Indian Treaty Conference" and "Guatemala Refugee Camps in Mexico and Nicaragua." Theater-lecture hall, Coffman Union. Noon-2 p.m. Free.

**Wed., April 27--Film:** "The Pirate" (1948). Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Wed., April 27--University Film Society:** "Giant" (USA, 1956). Bell Museum of Natural History aud. 7:30 p.m. \$3. Information: 373-5397.

**Thurs., April 27--University Film Society:** "Giant" (USA, 1956). Bell Museum of Natural History aud. 7:30 p.m. \$3. Information: 373-5397.

**Thurs., April 27--University Film Society:** "Behind the Brick Wall" (Hungary, 1979) and "Philemon and Baucis" (Hungary, 1978). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

**Thurs., April 27--University Theatre:** "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Fri., April 29--Film:** "M\*A\*S\*H." Theater-lecture hall, Coffman Union. 1:30, 7 and 9:20 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

**Fri., April 29--University Film Society:** "Marianne and Juliane" (W. Germany, 1981). 5:30, 7:30 and 9:30 p.m. Bell Museum of Natural History aud. \$3, \$2 matinee. Information: 373-5397.

(OVER)

Fri., April 29--Whole Coffeehouse: Bill Murray, comedian, Sweet Grass Band and Bill Miller and the Native Sons Band. In conjunction with Indian Awareness Week. Coffman Union. 7:30 p.m.

Fri., April 29--Bijou film: "North by Northwest" (Alfred Hitchcock, 1959). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

Fri., April 29--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

Sat., April 30--University Film Society: "Marianne and Juliane" (W. Germany, 1981). 5:30, 7:30 and 9:30 p.m. Bell Museum of Natural History aud. \$3, \$2 matinee. Information: 373-5397.

Sat., April 30--Film: "M\*A\*S\*H." Theater-lecture hall, Coffman Union. 7 and 9:20 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

Sat., April 30--Bijou film: "North by Northwest" (Alfred Hitchcock, 1959). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

Sat., April 30--School of Music: Faculty recital: Shirley Thomson, violin; Michael Santoro, piano. Scott Hall aud. 8 p.m. Free.

Sat., April 30--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

Sun., May 1--School of Music: Concert Band II and Jazz Ensemble II. Northrop Aud. 3 p.m. Free.

Sun., May 1--University Theatre: "Lysistrata." Stoll Thrust Theatre, Rarig Center. 3 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

Sun., May 1--University Film Society: "Marianne and Juliane" (W. Germany, 1981). 5:30, 7:30 and 9:30 p.m. Bell Museum of Natural History aud. \$3, \$2 matinee. Information: 373-5397.

Sun., May 1--Film: "M\*A\*S\*H." Theater-lecture hall, Coffman Union. 7 p.m. \$2.50, \$1.50 for U of M students with current fee statements.

Sun., May 1--Dance band: Insoc, heavy electronic dance and pop. Whole Coffeehouse, Coffman Union. 8 p.m. \$1.50.

Mon., May 2--University Film Society: "Marianne and Juliane" (W. Germany, 1981). 7:30 and 9:30 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

Mon., May 2--University Film Society: "A Touch of Zen" (Hong Kong, Taiwan, 1975). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

Tues., May 3--University Film Society: "Australian Lesbian Films." 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

UNIVERSITY OF MINNESOTA  
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APRIL 22, 1983

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NEWS PEOPLE: For more information  
contact DAVID C. BOLIN, (612) 376-3955  
or 376-3577

U OF M COLLEGE OF EDUCATION RANKS SEVENTH  
AMONG NATION'S MOST PRODUCTIVE INSTITUTIONS

(FOR IMMEDIATE RELEASE)

The University of Minnesota College of Education is ranked seventh among the top 25 higher education institutions in two combined areas of educational research productivity: total productivity and faculty productivity.

The rankings appear in the current issue of American Educational Research Journal in an article by University of Illinois professor Maurice Eash.

Eash compiled and analyzed data on contributions to American Educational Research Association (AERA) annual meetings and to 14 leading educational research journals from 1975 through 1981. In these two categories, Minnesota ranked eighth and second respectively.

Eash next divided the number of AERA presentations and articles published by the number of each institution's full-time-equivalent faculty to obtain a faculty productivity index in each category of contribution.

The resulting indexes were then ranked, and Eash then summed the four separate rankings for each institution and ranked the totals to produce the list of the 25 highest producing institutions, in which Minnesota ranked seventh.

In the same table of rankings, he also shows that the university ranks seventh in a National Science Foundation summary of research and development expenditures of the 50 universities that receive the most federal funds -- indicating that most colleges productive in educational research are linked with universities that are major recipients of federal research support.

To obtain an indicator of change in institutional productivity over time, Eash carried out a separate tabulation that compared the number of AERA program contributions in 1975-76 with those of 1980-81. On this measure, Minnesota ranked 22nd in the nation, with a 71 percent increase in the number of contributions between the two years being compared.

-UNS-

(A0, 14, 15; B1, 11; C0, 14, 15; D14, 15; E14, 15)

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151  
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APRIL 25, 1983

NEWS PEOPLE: For more information  
contact JEANNE HANSON, (612) 373-7517

DEVICE WOULD PROTECT NATION'S ELECTRICAL  
SYSTEM FROM NATURAL INTERFERENCE, PERHAPS EMP

(FOR IMMEDIATE RELEASE)

A device to protect the country's interconnected electrical power and communication systems from rare but potentially massive power blackouts is being developed by researchers at the University of Minnesota and several power companies.

The device, which is in prototype form, uses a tiny, high-speed switch to block geomagnetically induced power surges that can trigger electrical blackouts. Working with university electrical engineering professor Vern Albertson are researchers at Minnesota Power of Duluth, Commonwealth Associates of Jackson, Mich., and Phoenix Electric Corp. of Boston through funding by the Electric Power Research Institute of Palo Alto, Calif.

Albertson and another research team are just beginning to try to adapt the device to block electromagnetic pulse (EMP) phenomena, the low-frequency aftershock of a nuclear blast detonated high in the atmosphere.

The nation's power grid is affected by vast electromagnetic disturbances -- created by nature and potentially created by man -- in the upper atmosphere, Albertson said. The disturbances begin primarily on the unquiet sun, which emits streams of charged particles through its solar flares and other solar phenomena. These particles create the aurora borealis or northern lights, which splash some 9 trillion kilowatt hours of loose electricity across the sky every year, creating electromagnetic disturbances.

Similar disturbances would be created by EMP, Albertson said. The country's entire electrical communications system -- and everything attached to it from telephones to computers -- would black out.

(MORE)

Regional blackouts from natural geomagnetic disturbances are rare but potentially quite serious, Albertson said. A large geomagnetic storm last July 13 and 14 caused blackouts in Sweden, but not in Canada and the northern United States where the power systems were not operating at peak loads and therefore could handle the disturbance. A blackout spreads only when the system is at peak electrical capacity at the same time that one or more key transformers or transmission lines "tripout," creating a cascading or domino effect over the entire system.

Areas as far south as New York and Pennsylvania are vulnerable to these disturbances, Albertson said. But Canada, Scandinavia and the northern tier of the United States are at the greatest risk because they are closer to the North Pole where the charged particles circle.

Other vulnerabilities occur in parts of the country with igneous rock geology, which transmits current badly and so increases the voltage. And certain times of the year -- April, May, September and October -- are known peaks for geomagnetic storms because of earth's angle vis-a-vis the sun at those times. But the storms can occur at any time, Albertson said.

The southern United States is probably safe from this kind of blackout, even though it is electrically connected to the rest of the country and to Canada and Mexico, because "tap-off points" using automatic circuit breakers would prevent the spread of the electrical disturbance. Electrical systems are interconnected so that power companies can share power, build fewer plants and conveniently shut down facilities for repair or maintenance, Albertson said.

Blackouts come most commonly from phenomena other than the sun, he said. Lightning strikes, the most typical cause, usually can be rendered harmless by automatic circuit breakers, which open, allow lights to flicker and then close again. Tornadoes and wind storms often knock down power lines. And the unexpected outage of major power plants or a flaw in the transmission system can also be the cause. The massive East Coast blackout of 1965 was the result of such a flaw.

The sun's interference with electrical power systems happens in a different



way. During electromagnetic storms on the sun's surface a vast wind of charged particles is sent streaming out into the earth's upper atmosphere. The particles are trapped by our planet's magnetic field, which exists because at its core the planet is essentially an iron magnet. Circling the poles -- and visible at night as shimmering curtains of northern lights -- the electrically charged particles also create a difference in electric charge, called electric potential, at the earth's surface.

This electrical potential can be as strong as five volts per mile between two electrical transformers grounded to the earth for both safety and operating purposes. If the transformers connecting transmission lines are 200 miles apart, for example, the five volts are multiplied into 1,000 volts. Transformers must have this multiplying function in order to translate electricity from power plant to power line and from power line to factory, office and home, all of which usually use different voltages. Transformers attached to long transmission lines are the ones at risk, Albertson said.

The strong geomagnetically induced current then flows up through the transformers, causing the electrical problems. Tripouts and possible blackouts must be prevented by blocking the current within the transformer without interfering with other operations, which is the function of the new device.

-UNS-

(A0,4;B1,12;CO,4;DO,4;EO,4;I4)

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1072  
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1141

NEWS PEOPLE: For further information  
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U OF M ANTI-DRUNK DRIVING CAMPAIGN  
WINS TWO NATIONAL AWARDS

(FOR IMMEDIATE RELEASE)

A radio public service announcement about a victim of drunk driving and an "I-Love-Sober-Drivers" bumper sticker developed at the University of Minnesota have won two of eight national Alcoholism Communications Marketing Achievement Awards.

The awards, called "Markies," were presented at the recent meeting of the National Council on Alcoholism in Houston. Both were produced for the Grand Rapids, Minn., Drinking and Driving Project, sponsored by the Charles K. Blandin Foundation, which also placed new Burma Shave-type signs around the town to combat drunk driving.

James Schaefer, director of the university's Office of Alcohol and other Drug Abuse Programming, which developed the campaign, accepted the awards.

-UNS-

(A0,12,12a;B1)

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APRIL 25, 1983

NEWS PEOPLE: For further information  
contact ELIZABETH PETRANGELO, (612) 373-7510

U OF M FINANCE VP  
TO TAKE BROWN U POST

(FOR IMMEDIATE RELEASE)

Frederick M. Bohen, University of Minnesota vice president for finance and operations, has accepted the position of senior vice president for finance and administration at Brown University in Providence, R.I.

Bohen has agreed to take over the Brown post by Sept. 1 and will remain at Minnesota for the next several months while the 1983-84 budget is being prepared. Bohen has been vice president at the University of Minnesota since October 1980 and has had responsibility for an annual budget of \$850 million, construction and design of university buildings, purchasing, data processing and other auxiliary services.

During his tenure, he organized and completed a bond sale to finance the construction of the new \$125 million University Hospitals replacement building, which is scheduled for completion in 1986.

At Brown, Bohen will oversee budget and financial planning, including investments, physical plant and resident services, personnel, telecommunications, real estate management, purchasing and insurance, and will represent Brown's interest in selected areas of public affairs.

Bohen said he accepted the post "after a lot of soul-searching" because of its "very broad internal and external responsibilities."

"I leave the University of Minnesota very reluctantly," Bohen said. "It is an excellent university with splendid leadership that is coping courageously and effectively with hard times."

"Whenever an institution attracts first-rate individuals, there is a risk of losing them. Such is the case with Fred Bohen who has provided superlative leadership and who has accomplished a great deal in the time that he has been at the

(MORE)

university," said university President C. Peter Magrath. "Naturally, I wish him every success in his new position even though I regret that he will be leaving us."

David Lilly, special consultant to university President C. Peter Magrath, will take over as acting vice president for finance and operations when Bohem leaves and will serve until a permanent replacement is found. Lilly is currently on a six-month leave from the deanship of the university's School of Management, and is chairing a task force on Minnesota higher education and the economy.

Before coming to the University of Minnesota, Bohem was assistant secretary for management and budget in the Department of Health, Education and Welfare. He has also been senior program associate with the Carnegie Council on Policy Studies in Higher Education, director of news and public affairs for WNET-TV in New York, executive assistant to McGeorge Bundy while Bundy was president of the Ford Foundation, and staff assistant to President Lyndon Johnson.

-UNS-

(A0,1,15;B1,10;C0,1,15;E15)

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NEWS PEOPLE: For further information  
contact LYNNA WILLIAMS (612) 373-5699

U OF M RANKED SEVENTH IN  
NATION IN PRIVATE SUPPORT

(FOR IMMEDIATE RELEASE)

The University of Minnesota ranked seventh among the nation's higher education institutions in the amount of private support given by alumni, corporations and other sources in 1981-82.

Donors gave the university \$54.9 million in 1981-82, an increase of \$5 million over 1980-81.

The ranking of the 20 institutions in the United States receiving the highest total of voluntary support is part of an annual survey conducted by the Council for Financial Aid to Education and was released this week.

Of the top 10 universities ranked, the University of Minnesota is one of only two public institutions included. The University of California at Los Angeles was fourth in the rankings.

The University of Minnesota has been included in the top 10 each year since 1973-74 and in the top 20 for the past 10 years.

"Setting an institutional record for private gifts is cause for great joy -- especially after the university suffered a record cutback in state appropriations last year," said university President C. Peter Magrath. "Naturally, the regents, faculty and I are grateful for such generosity. We are also honored by the continuing confidence that our many benefactors place in this outstanding institution."

Overall, the survey of 1,101 private and public colleges and universities found support for those institutions increased by almost 15 percent in 1981-82, to reach an estimated \$4.86 billion.

Part of the increase in overall support nationally was due to \$77 million in

(MORE)

RANKINGS

-2-

bequests to Harvard University and \$38 million to Washington University in St. Louis from the estate of Edward Mallinckrodt Jr., an alumnus of both schools.

Voluntary support overall increased in every category, including 23.9 percent among alumni. Support from corporations was up 23.4 percent.

For the University of Minnesota, support from corporations, non-alumni and other sources in 1981-82 increased over the previous year. Corporate donations increased from \$7 million to \$9.2 million and non-alumni donations increased from \$10.18 million to \$13.14 million.

Donations from foundations and from alumni both declined in 1981-82, although the actual number of persons making annual gifts increased. In the past three years, the number of individual donors has grown from 16,500 to nearly 25,000.

About 14.5 percent of the university's alumni made donations during 1981-82, compared to about 13.5 percent nationally.

Gifts to the university last year included \$5 million to the College of Agriculture for a new Crop Management Center from the estate of Redwood Falls farmer Parker Sanders and a \$2.9 million gift from the estate of Eldon Siehl to establish a chair in nursing honoring his wife, Cora. Gifts also established chairs in the colleges of Law, Education and Agriculture.

There was continued corporate support to the Center for Microelectronic and Information Sciences from 3M and Calma.

Among foundation gifts were \$1 million from the McKnight Foundation to the School of Management to foster faculty development and \$400,000 from the Exxon Educational Foundation for faculty and graduate student assistance in the Institute of Technology.

-UNS-

(A0, 12, 12a, 15; B1; C0, 12, 12a, 15)

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NEWS PEOPLE: For further information  
contact RALPH HEUSSNER, (612) 373-5830

MEMO TO NEWS PEOPLE

Fetal Alcohol Syndrome (FAS) ranks as one of the three leading causes of mental retardation, yet it may be the most preventable cause of birth defects.

The Program in Maternal and Child Health of the University of Minnesota will host a one-day conference on FAS May 6 at the Spring Hill Conference Center in Wayzata.

Experts will review the current state of knowledge about the developmental risks to young children and families posed by alcohol consumption during pregnancy.

Reporters are welcome to attend all or part of the program.

Dr. Robert ten Bensel, professor and director of the Program in Maternal and Child Health, will discuss "Biological Relationships Between Alcohol and the Fetus: State of the Art" at 8:45 a.m.

Dr. Judy Brady, conference coordinator, will follow at 9:30 a.m. with a presentation on the impact of alcohol consumption on early development.

The program is sponsored by the university, the Office of Alcohol and Other Drug Abuse Programming, the March of Dimes and the Minnesota Institute.

If you are interested in attending the meeting, contact Brady at 373-8066.

-UNS-

(A0,3,23,24;B1,4,8;C0,3,23,24)

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NEWS PEOPLE: For further information  
contact LYNNA WILLIAMS, (612) 373-5699

MEMO TO NEWS PEOPLE

A day-long conference at the University of Minnesota Saturday (April 30) will explore the personal and political issues surrounding women and food.

The conference, "Hungry Bodies, Hungry Hearts: Personal and Political Perspectives on Women and Food," is the 10th Annual Woman Power Conference sponsored by the Minnesota Women's Center at the university.

The opening panel discussion will be at 9 a.m., followed by workshops at 10:45 a.m. and 1:15 p.m. The conference will be held at the Student Center, 2017 Buford Ave., on the St. Paul campus.

The workshops will focus on personal perspectives about breaking addictions to food and will look at global perspectives on women and world hunger.

Speakers include Liz Aronica, a therapist and director of Interplay, and Martha Boesing, a writer and artistic director of the women's theater At the Foot of the Mountain.

-UNS-

(A0,3,36;B1,8;C0,3,36)



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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

SUMMER ARTS YOUTH PROGRAM  
SET FOR QUADNA MOUNTAIN

(FOR IMMEDIATE RELEASE)

A pilot program to allow young people to study writing and visual arts in a week-long residential setting will be held July 3 through 9 at Quadna Mountain Resort near Grand Rapids, Minn.

The University of Minnesota's Summer Arts Youth Program is designed for 15- to 18-year-olds who have shown motivation and ability in either writing or visual arts. The program features two components: a writing workshop and a visual arts workshop, each of which will be taught by two professional artists.

The writing workshop will be led by Margaret Hasse and Jim Moore, both published poets. Hasse also writes plays and has been a director of the Writers in the Schools program. She has extensive experience working with young people. Moore has been a visiting professor at the University of Minnesota and has conducted many writing workshops for young people. He is a recipient of a Bush Foundation Writing Fellowship.

Judith Johnson Roode and David Feinberg will teach the visual arts workshop. Roode is on the faculty of the Minneapolis College of Art and Design, has taught at the University of Minnesota and recently won a Ford Foundation faculty grant. Feinberg is a faculty member of the University of Minnesota studio arts department. He has traveled widely in Europe and recently taught at Trinity College in Dublin, Ireland. Both Roode and Feinberg exhibit their work extensively.

Each workshop costs \$380, which includes room, board, materials and instruction. Some limited financial assistance will be available. For more information, contact the Summer Arts Study Center, 320 Wesbrook Hall, 77 Pleasant St. S.E., University of Minnesota, Minneapolis, MN 55455 or (612) 373-4947.

-UNS-

(A0,2,2a;B1,8;C0,2,2a;  
D0,2,2a;E2,2a)

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APRIL 28, 1983

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NEWS PEOPLE: For further information  
contact J. PAUL BLAKE, (612) 373-2126  
MARGARET MICHAELSON, (612) 941-7908  
or U CHINA CENTER (612) 376-2593

U OF M CHINESE SCHOLARS TO PROVIDE  
'AN INSIDE LOOK AT CHINA'

(FOR IMMEDIATE RELEASE)

Four University of Minnesota Chinese scholars will speak about various aspects of life in modern China May 10 at 7:30 p.m. in room 370 Anderson Hall on the west bank of the Minneapolis campus.

Zheng Shengtian will talk about "Faces of China from an Artist's Viewpoint"; Qin Zhaiyan will discuss "Technology in China Today"; Shu Yiyi will discuss "China's Modern Medicine"; and Zhou Hongren will outline "Recent Changes in China."

Cost for the program, which is sponsored by the U.S.-China People's Friendship Association (USCPFA) and the University of Minnesota China Center, is \$1.50. USCPFA members will be admitted free. Refreshments will be provided.

-UNS-

(A0,2,2c,8b;B1,8,13;C0,2,2c,8b)

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NEWS PEOPLE: For further information  
contact PAUL DIENHART (612 373-7512)

#### SCHEDULE CHANGE

Mayor Richard Hatcher of Gary, Ind., has canceled his appearance as keynote speaker at the May 4 session of a University of Minnesota conference on "Economic Development of Afro-America and Africa." He will be replaced by Golar Butcher, a professor of law at Howard University and a former assistant administrator of the U.S. Agency for International Development.

Butcher will speak on the history of U.S. economic involvement in Africa at 3:15 p.m., May 4, in 125 Willey Hall on the west bank of the Minneapolis campus. All other sessions of the May 4, 5 and 6 conference will be in the West Bank Union auditorium on the lower level of Willey Hall. The conference will consider the role of U.S. economic policy in the development or underdevelopment of Afro-American and African communities.

Details on the program can be obtained from the conference sponsor, the university's department of Afro-American and African studies, at (612) 373-0143.

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(A0,3,8,8c;B1,8;C0,3,8,8c)

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TELEPHONE: (612) 373-5193  
APRIL 29, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
May 4-10

**Wed., May 4--Bell Museum:** "Taking a Closer Look: High Magnification Nature Photography with a Biological Perspective," by Bruce Edinger, ground floor gallery. 9 a.m.-5 p.m. Tues.-Sat.; 1-5 p.m. Sun. Through May 30. Free.

**Wed., May 4--Nash Gallery:** MFA thesis exhibits: Mike Bedard, prints; Vince Berg, paintings and drawings; John Ilg, paintings and drawings; Alis Olsen, photography; Linda Siemers, sculpture. Small press books and broadsides exhibit. Lower level, Willey Hall. 9 a.m.-4 p.m. Mon., Tues. and Fri.; 9 a.m.-9 p.m. Wed. and Thurs.; noon-4 p.m. Sat. and Sun. Through May 6. Free.

**Wed., May 4--Paul Whitney Larson Gallery:** Design department student group show: "Quilting - A Practical Resolution and Usage of Color and Design Theory." St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through May 13. Free.

**Wed., May 4--Coffman Union Gallery:** MFA thesis exhibit: "Transformed Passages" by Mary Burke, Gallery 1. BFA exhibit: oil paintings and charcoal drawings by Charles Nordquist, Gallery 2. American Indian exhibit, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 4. Free.

**Wed., May 4--Art sale:** Chicano/Latino art and craft sale. River terrace, Coffman Union. 11 a.m.-2 p.m.

**Wed., May 4--University Gallery:** "Lars Sonck, 1870-1956: Finland's Romantic Architect." Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Through May 29. Free.

**Wed., May 4--University Theatre:** "The Ghost Sonata," a workshop production. Experimental Theatre, Rarig Center. 5:30 p.m. Donation. Information: 373-2337.

**Wed., May 4--Film:** "Summer Stock" (1950). Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Wed., May 4--University Film Society:** "Eijanaika ('What the hell')," (Japan, 1981). Bell Museum of Natural History aud. 7:30 p.m. \$3. Information: 373-5397.

**Wed., May 4--Third Century Poetry and Prose series:** Endesha Ida Mae Holland reading "From the Mississippi Delta." Fireplace room, West Bank Union. 8 p.m. Free.

**Thurs., May 5--Jazz festival:** A special festival of clinics, concerts and small combo performances. Northrop Aud. All day. For times of events call 373-3431. Free.

**Thurs., May 5--University Gallery:** "Danish Literature." Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Through May 29. Free.

**Thurs., May 5--University Film Society:** "A Distant Cry From Spring." (Japan, 1980). Bell Museum of Natural History aud. 7:30 and 9:45 p.m. \$3. Information: 373-5397.

(OVER)

**Fri., May 6--Jazz festival:** A special festival of clinics, concerts and small combo performances. Northrop Aud. All day. For times of events call 373-3431. Free.

**Fri. May 6--University Film Society:** "A Distant Cry From Spring." (Japan, 1980). Bell Museum of Natural History aud. 5, 7:30 and 9:45 p.m. \$3, \$2 matinee. Information: 373-5397.

**Fri., May 6--Films:** "Airplane" and "Airplane II." 1:30, 7 and 8:45 p.m. Theater-lecture hall, Coffman Union. \$3, \$2 for U of M students with current fee statements. \$1 matinee.

**Fri., May 6--Bijou film:** "Citizen Kane" (1941). West Bank Union aud. 7:30 and 9:45 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Fri., May 6--Concert:** Jazz Ensemble II and IV. Northrop aud. 8 p.m. Free.

**Fri., May 6--Dance:** "Dance Feast: A Festival of Experiment" by Terpsichore Productions. The Theatre, St. Paul Student Center. 8 p.m. \$5, \$4 for students and senior citizens. Information: 373-1051.

**Fri., May 6--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sat., May 7--Jazz festival:** A special festival of clinics, concerts and small combo performances. Northrop Aud. All day. For times of events call 373-3431. Free.

**Sat., May 7--University Film Society:** "A Distant Cry From Spring." (Japan, 1980). Bell Museum of Natural History aud. 5, 7:30 and 9:45 p.m. \$3, \$2 matinee. Information: 373-5397.

**Sat., May 7--Films:** "Airplane" and "Airplane II." 7 and 8:45 p.m. Theater-lecture hall, Coffman Union. \$3, \$2 for U of M students with current fee statements.

**Sat., May 7--Bijou film:** "Citizen Kane" (1941). West Bank Union aud. 7:30 and 9:45 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Sat., May 7--Concert:** Jazz Ensemble I and III. Northrop Aud. 8 p.m. Free.

**Sat., May 7--Dance:** "Dance Feast: A Festival of Experiment" by Terpsichore Productions. The Theatre, St. Paul Student Center. 8 p.m. \$5, \$4 for students and senior citizens. Information: 373-1051.

**Sat., May 7--Third Century Poetry and Prose series:** Treasa O'Driscoll reading from "The Spirit of Celtic Ireland in Story, Poem and Song." 125 Willey Hall. 8 p.m. \$3, \$2 for U of M students with current fee statements.

**Sat., May 7--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sun., May 8--Concert:** University Wind Ensemble. Northrop Aud. 3 p.m. Free.

**Sun., May 8--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 3 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sun., May 8--University Film Society:** "A Distant Cry From Spring." (Japan, 1980). Bell Museum of Natural History aud. 5, 7:30 and 9:45 p.m. \$3, \$2 matinee. Information: 373-5397.

**Sun., May 8--Films:** "Airplane" and "Airplane II." 7 and 8:45 p.m. Theater-lecture hall, Coffman Union. \$3, \$2 for U of M students with current fee statements.

**Sun., May 8--Dance band:** Limited Warranty, original dance music. Whole Coffee-house, Coffman Union. 8 p.m. \$1.50.

**Mon., May 9--Nash Gallery:** MFA thesis exhibits: Robert Cochran, paintings and drawings; Tom Durham, sculpture; Dana Larson, paper and clay; Christy Reo, photography. BFA exhibits: Carol Bush, ceramics; Anne Elias, sculpture; Jane Feicht, sculpture. Lower level, Willey Hall. 9 a.m.-4 p.m. Mon., Tues. and Fri.; 9 a.m.-9 p.m. Wed. and Thurs.; noon-4 p.m. Sat. and Sun. Through May 20. Free.

**Mon., May 9--Coffman Union Gallery:** MFA exhibit: drawings and ceramics by Andrena Wingate, Gallery 1. BFA exhibit: acrylics, watercolors and drawings by Joan Porter, Gallery 2. "Samurai and the American West," steel sculpture by Harry Koyama, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 25. Free.

**Mon., May 9--University Film Society:** "A Distant Cry From Spring." (Japan, 1980). Bell Museum of Natural History aud. 7:30 and 9:45 p.m. \$3. Information: 373-5397.

**Mon., May 9--University Theatre:** "The Ghost Sonata," a workshop production. Experimental Theatre, Rarig Center. 8 p.m. Donation. Information: 373-2337.

**Tues., May 10--University Film Society:** "Not a Love Story" (USA). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

-UNS-

(A0;B1;F2)

UNIVERSITY OF MINNESOTA  
NEWS SERVICE, 6 MORRILL HALL  
100 CHURCH ST. S.E.  
MINNEAPOLIS, MINNESOTA 55455  
MAY 3, 1983

MT12  
N47  
9:00 P

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

U OF M CONFERENCE WILL FOCUS  
ON WOMEN IN LABOR

(FOR IMMEDIATE RELEASE)

Joyce Miller, vice president of the Amalgamated Clothing and Textile Workers union and a member of the AFL-CIO executive council, will give a keynote address at a University of Minnesota conference called "The Sex/Gender Division of Labor: Feminist Perspectives" May 13 through 15.

The conference, which will begin at 7:30 p.m. May 13 at the Earle Brown Center on the St. Paul campus of the university, will include several panel discussions on the role of women in the labor force. Management styles of women, how public policy affects women workers, female-identified occupations and the history of women in American labor will be among the topics discussed during the three-day conference. Other panels will look at rural women, health care delivery systems, women inventors and homemakers. One panel will deal with working women in Minneapolis, focusing on such topics as rural women's search for work in Minneapolis from 1900 through 1920 and women's work-related decisions in present-day Minneapolis.

Joan Grove, Minnesota's secretary of state, will make the welcoming remarks at the May 13 session. Nina Rothchild, commissioner of employee relations for the state, will follow with a discussion of the economic status of women. Miller's keynote address is next on the schedule. The May 13 session is free and open to the public.

Registration for remainder of the conference is \$10. Free child care will be provided for the entire conference at the Commonwealth Terrace Cooperative, 1250 Fifield Ave., St. Paul. Snacks and lunches will be provided for the children.

The conference is being sponsored by the the Minnesota Humanities Commission, the Minneapolis College of Art and Design, the university women's studies program and several other university units.

For information on registration, hotel accommodations and conference schedule, contact Lori Graven, Program Coordinator, Department of Conferences, 315 Pillsbury Drive S.E., University of Minnesota, Minneapolis, MN 55455.

-UNS-

(A0,3,12,36;B1,8)

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MAY 3, 1983

DATE  
TIME  
GROUP

NEWS PEOPLE: For further information  
contact J. PAUL BLAKE, (612) 373-5193

U OF M MINNEAPOLIS CAMPUS  
TO GET CLEANUP IN 'PROJECT PRIDE'

(FOR IMMEDIATE RELEASE)

Scores of students, faculty and staff of the University of Minnesota will drop their pencils and pick up brooms and rakes Saturday (May 7) in an effort to beautify the Minneapolis campus.

Saturday has been designated "Project Pride Day" and organizers of this first-time event hope several hundred people will turn out for the cleanup. Volunteers will gather at an information booth at Northrop Mall to get their assignments from 8 a.m. to 3 p.m. The cleanup will involve raking, sweeping and clearing various information kiosks around campus.

"Project Pride attempts to serve several purposes, including giving the campus a badly needed facelift and also encouraging individuals in the university community to take pride in the institution," said Wally Caryl, coordinator of the department of emergency management, one of the program sponsors.

Staff cutbacks of 20 percent in physical plant operations in the past few years prompted the cleanup, according to organizers.

Organizers, including the Student Organization Development Center, hope to make the project an annual event.

-UNS-

(A0,7;B1;C0,7)



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MAY 3, 1983

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

CEREMONY WILL HONOR  
BLACK U OF M GRADS

(FOR IMMEDIATE RELEASE)

Black students graduating from the University of Minnesota can participate in the annual Black Graduation and Awards Ceremony May 12 at 6:30 p.m. in the Great Hall of Coffman Union on the Minneapolis campus.

Municipal Court Judge Pamela Alexander of Hennepin County will be the keynote speaker at the ceremony, which is sponsored by the university's Black Learning Resource Center.

Awards will be presented to students, staff, faculty and others who have contributed to the welfare of black students at the university. Scholastic achievement awards will also be presented to students who have maintained a grade point average of 3.0 or better.

Guest soloist at the ceremony will be Thomas Ruffin and refreshments will be served following the ceremony.

Black students who want to participate should contact the Black Learning Resource Center, 323 Walter Library, 117 Pleasant St. S.E., University of Minnesota, Minneapolis, MN 55455 or (612) 373-7947.

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(A0,7,8,8c;B1,17;C0,7,8,8c)

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MAY 3, 1983

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MAY 11  
9 5 49

NEWS PEOPLE: For further information  
contact JEANNE HANSON, (612) 373-7517

PULSING OF DYING STARS  
UNLOCKING SECRETS FOR ASTRONOMERS

(FOR IMMEDIATE RELEASE)

Pulsars are dying stars of great power. Each drums its distinctive beat outward to the universe, some pulsing as slowly as one beat every four seconds, one throbbing as fast as 600 beats per second, but most ranging at about two to seven pulses per second.

When first discovered some 15 years ago, these stars were thought to be conscious conveyers of mysterious messages. The truth is perhaps even stranger.

A pulsar begins in a supernova explosion, the most violent star death and the fate of only the largest stars. When such stars have exhausted their nuclear fuel, they collapse under their own gravity.

The accelerating collapse creates a tremendous explosion, blowing some of the star outward into space. The core then crashes more deeply inward, creating the densest kind of star in the universe. A star that once had several times the mass of our sun becomes only slightly bigger than a small asteroid, perhaps five to 10 miles across. The almost unimaginable gravity created on the pulsar's surface would increase the weight of an average-sized person to some 100 trillion pounds -- about the weight of Mount Everest.

When the star collapses, the laws of physics must remain in force but take strange turns, according to John Dickey, astronomer at the University of Minnesota. Angular momentum -- the same force that makes bicycles and toy tops more stable as they move faster -- must be conserved. The result is that the star spins faster and faster as it collapses, beginning at a few hundred spins per second.

The other relevant physical law -- the conservation of magnetic flux, the strength of the star's magnetic field -- is also intensified on a pulsar. Its

(MORE)

magnetic field becomes some 200 trillion times stronger than that at the earth's surface.

Then, much as some electric power plants on the earth create electricity by rotating a strong magnet, the pulsar itself becomes an awesome electromagnetic generator. Its pulses are the evidence of this natural electricity. With each spin, a vast beam emerging from the two poles of the star sweeps over everything in its path -- including Earth -- like a vast lighthouse light.

Gradually, the intense pulsating draws energy from the rotation, slowing the pulsar down. By the time the pulses are about four seconds apart, the star's beam is too weak to be detected by Earth-bound telescopes. The wound-down corpses of these stars might well litter the universe.

-UNS-

(A0,4,4a;B1,12;C0,4,4a)

UNIVERSITY OF MINNESOTA  
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MAY 3, 1983

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NEWS PEOPLE: For further information  
contact JEANNE HANSON, (612) 373-7517

MEMO TO NEWS PEOPLE

To hear two pulsars, which are among the most exotic kinds of stars known, call the University of Minnesota's Starwatch tape at (612) 376-5587. The tape, made at the National Radio Astronomy Observation's Greenbank, W. Va., facility, first features pulsar 0329, its beat of 1.5 pulses per second reaching us from about 8,500 light-years away, then pulsar 0833, pulating at 11 pulses per second from some 1,600 light-years away.

Pulsars are stars that previously exploded, then collapsed until they became dense rotating magnets, generating tremendous electromagnetic beams. Each time the star rotates, everything in its path receives a beam. On the tape, listeners hear the actual rotation of the star, as detected by the radio telescope. If human ears could hear radio waves, this is what we would hear.

-UNS-

(A0,4,4a;B1,12;C0,4,4a)

UNIVERSITY OF MINNESOTA  
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MAY 4, 1983

NEWS PEOPLE: For further information  
contact LYNNA WILLIAMS (612) 373-2126

U OF M HAS NEW POSITION TO AID  
STUDENT ATHLETES ACADEMICALLY

(FOR IMMEDIATE RELEASE)

The University of Minnesota is recruiting -- not an athlete -- but an assistant director of athletics to work on academics with some 600 men and women athletes.

A search committee is seeking applicants for a new position in intercollegiate athletics at the university, assistant director of athletics for academic counseling.

The creation of the position is intended to strengthen the existing athlete counseling program and to broaden it, said Nils Hasselmo, vice president for administration and planning.

"We want to create the strongest possible expectation on the part of the athletes that they are going to be involved in a meaningful academic program," Hasselmo said. He said that while many athletes at the university already have those expectations and do well, "too many do not seem to get as good an education as they can and should get."

Through the new assistant director, the university wants to develop a system in which counselors are in close contact with athletes from recruitment to graduation, Hasselmo said.

The counseling program exists to serve any athlete who might benefit, he said, not only those who may have academic difficulties. It is intended to be mainly a preventive, rather than remedial, program, he said.

The duties of the new assistant director will include ensuring compliance with all rules governing eligibility and financial aid; monitoring and reporting on the academic performance and progress of athletes; ensuring the effective use of an athlete tutoring program and study hall; and working with the coaching staff to

(MORE)

evaluate prospective recruits to ensure that they are placed in programs that meet their needs.

The person selected also will be responsible for determining if there is a need to establish programs to advise athletes in such areas as drug use, nutrition, sex education and dealing with professional agents and the media, Hasselmo said.

The decision to make the new assistant director responsible for academic counseling in both men's and women's intercollegiate athletics was, in part, a step toward closer association between the two departments, Hasselmo said.

Qualifications sought in an applicant include an M.A. or Ph.D. in counseling psychology, student personnel or a related field; a strong commitment to intercollegiate athletics and academic values; and experience in a Division I athletic program.

The closing date for applications is June 10. Applications may be sent to John Clark, 200 Morrill Hall, 100 Church St. S.E., Minneapolis, MN 55455.

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(AO, 1, 15; B1; CO, 1, 15;  
E15; F15)

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MAY 4, 1983

NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM, (612) 373-7514

U OF M MACPHAIL CENTER OFFERING  
SCHOLARSHIPS FOR ADULTS, CHILDREN

(FOR IMMEDIATE RELEASE)

Scholarships for study at the University of Minnesota MacPhail Center for the Performing Arts in Minneapolis will be offered for the first time next year.

Part of the university since 1966, MacPhail is a community-based center devoted primarily to the study of music for approximately 3,000 students of all ages. Classes in dance and photography also are offered at the 75-year-old center.

Joanna Cortright, acting director, said the center expects to provide 20 scholarships that will cover study during the winter and spring quarters of 1984. The approximate value of each scholarship is \$130. That amount covers about 50 percent of the tuition for two quarters of study.

Presentation of the scholarships will be based on financial need and talent, Cortright said. They will be available to children as young as 6 and to adults. In order to receive one of these first scholarships, a student must have studied at the center for at least one year.

"We realize that MacPhail has become a school mostly for the middle class," Cortright said, "and we have had a hard time addressing the needs of the broader community. This is our initial foray into addressing that need. We would like to eventually have a financial aid arrangement that is based solely on need for the student who has never studied at MacPhail, and then on talent."

Funds for the scholarships came from private gifts and a benefit concert and master class staged this spring.

Students interested in applying for a scholarship should contact the MacPhail Center office after Aug. 15. Auditions will be conducted in October.

The center is at 1128 LaSalle Ave., Minneapolis, MN 55403. Call (612) 373-1925 for more information.

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(A0,2,2b,2d;B1,13;C0,2,2b,2d;F11,13)

MTR  
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UNIVERSITY OF MINNESOTA  
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MAY 4, 1983

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

TWIN CITIES DECLARE  
HONG KONG WEEK

(FOR IMMEDIATE RELEASE)

The mayors of both Twin Cities have proclaimed May 8 through 14 "Hong Kong Week" in recognition of a series of lectures, exhibitions and cultural events planned by a group of students from Hong Kong.

The events will begin with a four-day symposium on housing and land use, health care, economics, religion, customs and the history of Hong Kong. Sessions will be held May 9 through 12 from 2 to 5 p.m. in the West Bank Union on the Minneapolis campus of the University of Minnesota.

Movies about the British city will begin at 7:30 p.m. May 2, 8 and 9 in 125 Willey Hall on the west bank of the Minneapolis campus. On May 2 "A Touch of Zen" will be shown; on May 8 and 9 "Father and Son" will be shown, followed by "The Spooky Bunch."

Hong Kong night will be May 13 from 7:30 to 10 p.m. in Nicholson Hall on the Minneapolis campus and will feature music, dance, a martial arts demonstration and Chinese food.

The events are sponsored by the Minnesota Hong Kong Student Association, several University of Minnesota organizations and Augsburg College.

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(A0,3,7,8b;B1,13;C0,8;C0,3,7,8b)



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MAY 4, 1983

NEWS PEOPLE: For further information  
contact PAUL DIENHART (612) 373-7512

SEVEN FACULTY MEMBERS  
TO RECEIVE U OF M AWARDS

(FOR IMMEDIATE RELEASE)

Seven University of Minnesota faculty members will receive the 1983 Horace T. Morse-Amoco Foundation Award for their contributions to undergraduate education.

Recipients of the award are selected in university-wide competition by a faculty-student subcommittee of the university senate committee on educational policy. Winners are judged on their contributions to teaching and advising, curriculum development and leadership in teaching.

The award carries a \$1,000 gift and a limited-edition sculpture designed to symbolize excellence in teaching. The sculpture was created by the late Katherine E. Nash, professor emeritus of studio arts and a recipient of the Morse-Amoco award. The awards will be presented at the commencement ceremonies of the winners' respective colleges.

The award is named for the former dean of the General College and is made possible through a grant from the Amoco Foundation. This year's recipients bring to 116 the number of Morse-Amoco award winners during the past 18 years.

The 1983 recipients are:

--Russell S. Adams Jr., professor of soil science in the College of Agriculture, who is an expert in pesticide residue chemistry and an active supporter of undergraduate research.

--James L. Bowyer, professor of forest products in the College of Forestry, who is co-author of a highly praised textbook on wood products and creator of the unique products management specialization in the forest products curriculum.

--John M. Dolan, associate professor of philosophy in the College of Liberal Arts, who is recognized for his contributions to undergraduate curriculum

(MORE)

development in philosophy and his co-editorship of The Thoreau Quarterly.

--Dennis R. Hower, professor of science, business and mathematics in the General College, who is the author of textbooks and curriculum material on law for undergraduates.

--Mark A. Luker, associate professor of mathematical sciences in the College of Letters and Science, Duluth, who is considered the computer science authority on the Duluth campus and is known nationally in the field of computer use in university education.

--Paul C. Rosenblatt, professor of family social science in the College of Home Economics, who is considered a pioneer in the study of grief and is the author of a textbook on that subject.

--James B. Van Alstine, assistant professor of geology in the Division of Science and Mathematics, Morris, who is the primary force behind the increase in quality and popularity of geology as a major on the Morris campus.

-UNS-

(A0,15;B1;C0,15;E15)

NOTE TO RADIO NEWS DIRECTORS: A radio report on this study will be available on the University of Minnesota Newslines from 4:30 p.m. May 6 through 4:30 p.m. May 9 at (612) 376-8000.  
(FOR RELEASE ANY TIME)

Feature story from the University of Minnesota News Service, 6 Morrill Hall 100 Church St. S.E. Minneapolis, Minnesota 55455 Telephone: (612) 373-7518  
May 5, 1983

DON'T EXPECT OUTER SPACE VISITORS  
TO LOOK LIKE THE PEOPLE NEXT DOOR

By Robert Pendleton  
University News Service

For years science fiction films have cast human beings in the starring roles of extraterrestrials, Superman being the most famous. But members of the scientific community say that if life exists at all beyond Earth, we probably won't see humanoids when we get off a space craft on another world.

Scientists studying the possibility of extraterrestrial life theorize that organisms on other worlds will not be replicas of organisms that have evolved on Earth. The evolutionary process, they say, is too random and complex for that to happen, even if environmental factors similar to those on Earth exist on other planets.

Daryl Karns, University of Minnesota graduate student in ecology and behavioral biology, said that while we may not find exact replicas of Earth life on some distant planet, we may find organisms similar in general theme. "For example," Karns said, "dolphins and sharks, which are mammals and fish (respectively), look very similar in external appearance. Both of them have adapted to moving at high speed through a dense medium. They have streamlined body shapes: Their head, mouth and sense organs are up at the front of the body. However, if you look at them closely you will see that they are not very close in detail."

Therefore, if extraterrestrial life had to evolve under environmental conditions similar to dolphins or sharks, living and moving through a dense medium such as water, it might develop along similar -- but not identical -- themes. And as the physical conditions on other worlds deviated from those found on Earth, one would expect to find increasingly strange organisms.

The study of life beyond earth, exobiology, is a scientific discipline that

(MORE)

really has no subject. No concrete evidence that life has evolved elsewhere has been discovered. Some scientists feel that life is so hard to get off the ground -- from the early pre-biotic primordial state to the level of biological micro-organisms that can reproduce -- that life itself in any form might be extremely rare on other worlds. And there are those scientists who argue that life might be relatively abundant, but intelligent life forms with which we can communicate might be exceedingly rare.

Discussion of extraterrestrials often centers on the possibility of intelligent -- technologically advanced -- lifeforms, organisms with which we might someday communicate. Karns said this type of speculation is rather farfetched. But if intelligence of the quality and quantity human beings possess is found, communication will most likely take place through the media of the laws of physics and mathematics, the universal constants that scientists speculate any intelligence would have in order to become a space-faring civilization or a civilization capable of sending out radio messages.

Because of the lack of concrete evidence supporting the existence of extraterrestrial life, science fiction writers have had a field day speculating about the varying life forms that we someday might come in contact with. One problem these writers have is that they must struggle to define the unknown. The only data they have on extraterrestrials is that which they conjure up from their own imaginations combined with the knowledge they have of life on Earth. Understandably their creations come out with human values and forms.

"One must come to the conclusion -- and it's not profound -- that the aliens are us," said Karns. "They do reflect our hopes and fears and aspirations as a group, our own socioeconomic context, our own values, our own philosophies."

In the film "Close Encounters of the Third Kind" we see aliens that look like what many people imagine human beings will look like in the distant future. "Big brained, atrophied bodies, cerebral processes have taken over and we have become technologically dependent, which means our bodies will atrophy," said Karns. "There

(MORE)

is no reason to believe that. There is no necessary link between increasing technology and our own biological forms. But, that is a common stereotype you see in novels about the future."

While the debate rages on in the world's scientific community concerning the issue of extraterrestrial life, science fiction will continue to reap the benefits of an increasingly technological society. "One could say that science fiction in a way is a folklore for our times," Karns said. "Good science fiction -- like all good fiction -- deals with universal issues that are of concern to all of us, human values, the nature of good and evil and so on. At the same time it takes these issues out of the realm of little villages, dwarfs and witches and puts them into a futuristic setting where technology often dominates the landscape. The science fiction genre gives the writer tremendous freedom to deal with interesting questions."

For now Karns theorizes that our first contact with extraterrestrial life -- if it is out there -- will be indirect through radio communication.

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(AO,4;B1;CO,4;DO,4;EO,1,4)

UNIVERSITY OF MINNESOTA  
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MAY 5, 1983

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

SCHEDULE CHANGE

The guest soloist previously announced for the University of Minnesota Black Graduation and Awards Ceremony May 12 has been replaced. The new soloist will be Ron Raylor.

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(A8,8c;B1,17;C8,8c)

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TELEPHONE: (612) 373-5193  
MAY 6, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
May 11-17

**Wed., May 11--Bell Museum:** "Taking a Closer Look: High Magnification Nature Photography with a Biological Perspective," by Bruce Edinger, ground floor gallery. 9 a.m.-5 p.m. Tues.-Sat.; 1-5 p.m. Sun. Through May 30. Free.

**Wed., May 11--Nash Gallery:** MFA thesis exhibits: Robert Cochran, paintings and drawings; Tom Durham, sculpture; Dana Larson, paper and clay; Christy Reoh, photography. BFA exhibits: Carol Bush, ceramics; Anne Elias, sculpture; Jane Feicht, sculpture. Lower level, Willey Hall. 9 a.m.-4 p.m. Mon., Tues. and Fri.; 9 a.m.-9 p.m. Wed. and Thurs.; noon-4 p.m. Sat. and Sun. Through May 20. Free.

**Wed., May 11--Paul Whitney Larson Gallery:** Design department student group show: "Quilting - A Practical Resolution and Usage of Color and Design Theory." St. Paul Student Center. 9 a.m.-6 p.m. Mon.-Fri.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through May 13. Free.

**Wed., May 11--Coffman Union Gallery:** MFA exhibit: drawings and ceramics by Andrena Wingate, Gallery 1. BFA exhibit: acrylics, watercolors and drawings by Joan Porter, Gallery 2. "Samurai and the American West," steel sculpture by Harry Koyama, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 25. Free.

**Wed., May 11--University Gallery:** "Lars Sonck, 1870-1956: Finland's Romantic Architect." "Danish Literature." Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Through May 29. Free.

**Wed., May 11--University Theatre:** "The Burned House," a workshop production. Experimental Theatre, Rarig Center. 5:30 p.m. Donation. Information: 373-2337.

**Wed., May 11--Film:** "Brigadoon" (1954). Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Wed., May 11--University Film Society:** "A Distant Cry of Spring" (Japan, 1980). Bell Museum of Natural History aud. 7:30 and 9:45 p.m. \$3. Information: 373-5397.

**Thurs., May 12--University Film Society:** "A Distant Cry From Spring." (Japan, 1980). Bell Museum of Natural History aud. 7:30 and 9:45 p.m. \$3. Information: 373-5397.

**Thurs., May 12--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Fri., May 13--Films:** "Mr. Bill Shorts," "School Daze" and "Hardware Wars." 1:30, 7 and 9:10 p.m. Theater-lecture hall, Coffman Union. \$1.

**Fri., May 13--Bijou film:** "Citizen Kane" (1941). West Bank Union aud. 7:30 and 9:45 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Fri. May 13--University Film Society:** "A Bad Son" (France, 1980). 7:30 p.m. "The Coast of Love" (France, 1982). 9:30 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

(OVER)

**Fri., May 13--Dance:** Minnesota Jazz Dance. The Theatre, St. Paul Student Center. 8 p.m. \$6, \$4 for U of M students and senior citizens. Information: 373-1051.

**Fri., May 13--School of Music:** University Opera Theatre. Scott Hall aud. 8 p.m. Ticket information: 376-8742.

**Fri., May 13--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Fri., May 13--Film:** "Rock 'n Roll High School." Theater-lecture hall, Coffman Union. 11 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Sat., May 14--Films:** "Mr. Bill Shorts," "School Daze" and "Hardware Wars." 7 and 9:10 p.m. Theater-lecture hall, Coffman Union. \$1.

**Sat., May 14--Bijou film:** "Citizen Kane" (1941). West Bank Union aud. 7:30 and 9:45 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Sat., May 14--Film and poetry reading:** "Poetry in Motion" (Canada). Poetry readings by Jim Carroll and John Giorno. 175 Willey Hall. 7:30 p.m. \$5, \$4 for U of M students, FITC and UFS members.

**Sat., May 14--University Film Society:** "The Bit Between the Teeth" (France, 1979). 7:30 p.m. "A Dirty Business" (France, 1981). 9:15 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Sat., May 14--Dance:** Minnesota Jazz Dance. The Theatre, St. Paul Student Center. 8 p.m. \$6, \$4 for U of M students and senior citizens. Information: 373-1051.

**Sat., May 14--School of Music:** University Opera Theatre. Scott Hall aud. 8 p.m. Ticket information: 376-8742.

**Sat., May 14--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sat., May 14--Film:** "Rock 'n Roll High School." Theater-lecture hall, Coffman Union. 11 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Sun., May 15--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 3 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sun., May 15--School of Music:** Faculty recital: Connie Arrau, piano; Gwen Perun, piano. Scott Hall aud. 4 p.m. Free.

**Sun., May 15--Films:** "Mr. Bill Shorts," "School Daze" and "Hardware Wars." 7 p.m. Theater-lecture hall, Coffman Union. \$1.

**Sun., May 15--University Film Society:** "A Bad Son" (France, 1980). 7:30 p.m. (The Police War" (France, 1979). Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Sun., May 15--Dance:** Minnesota Jazz Dance. The Theatre, St. Paul Student Center. 8 p.m. \$6, \$4 for U of M students and senior citizens. Information: 373-1051. 373-5397.



**Sun., May 15--Dance band:** Safety Last, rockabilly. Whole Coffeehouse, Coffman Union. 8 p.m. \$1.50.

**Mon., May 16--Bazaar:** Traditional Hmong, Lao and Vietnamese dancing, Asian crafts and ethnic food bazaar. Coffman Union mall. 11 a.m.-1 p.m. Free.

**Mon., May 16--University Film Society:** "All in One Night" (France, Belgium, 1982). 7:30 p.m. "Smic, Smac, Smoc" (France, 1971). 9:15 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Mon., May 16--Metropolitan Opera:** "La Boheme." Northrop Aud. 8 p.m. \$9-\$39. Tickets at 105 Northrop, 373-2345, Dayton's and Orchestra Hall.

**Tues., May 17--Film:** "Monkey King Makes Havoc" (China). Theater-lecture hall, Coffman Union. 7 p.m. Free.

**Tues., May 17--University Film Society:** "All in One Night" (France, Belgium, 1982). 125 Willey Hall. 7:30 p.m. \$3. Information: 373-5397.

**Tues., May 17--Metropolitan Opera:** "Macbeth." Northrop Aud. 8 p.m. \$9-\$39. Tickets at 105 Northrop, 373-2345, Dayton's and Orchestra Hall.

**Tues., May 17--University Theatre:** "The Ghost Sonata," a workshop production. Experimental Theatre, Rarig Center. 8 p.m. Donation. Information: 373-2337.

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(A0;B1;F2)

UNIVERSITY OF MINNESOTA  
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MAY 6, 1983

NEWS PEOPLE: For further information  
contact PAUL DIENHART (612) 373-7512

ST. THOMAS'S WHALEN TO GET  
U OF M JOURNALISM AWARD

(FOR IMMEDIATE RELEASE)

The Rev. James W. Whalen, chairman of the journalism department at the College of St. Thomas since 1959, will receive the Award for Excellence from the University of Minnesota Journalism Alumni Society May 25 at The Hotel Saint Paul.

Archbishop John R. Roach will be guest speaker at the 7 p.m. awards dinner. His 8 p.m. speech will include observations on press coverage of the recent National Conference of Catholic Bishops' resolution against nuclear arms. Roach is president of the conference.

The annual dinner is held jointly with Sigma Delta Chi, the Society of Professional Journalists, which will present the Page One Awards for the best work of newspapers and radio and television stations.

In March, Whalen received the Professor of the Year Award from the College of St. Thomas. He previously received the Minnesota Press Club's Distinguished Teaching Award. More than 350 students have earned journalism degrees since Whalen joined the St. Thomas faculty. His course on mass communication is one of the most popular courses at St. Thomas. He also teaches newswriting, editing, press law and history, critical writing, persuasion and journalism ethics. He is known for helping to place his students in jobs in journalism.

Whalen earned a bachelor's degree in journalism from the University of Minnesota in 1948 and a master's degree in 1962.

In addition to his work at St. Thomas, Whalen has been pastor for nearly 23 years at the St. Agatha parish in Coates, about 20 miles south of the Twin Cities.

For more information about the awards dinner, call the Minnesota Alumni Association at (612) 373-2466.

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(A0,20;B1,14;C0,20)

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MAY 6, 1983

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NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM (612) 373-7414

EX-LABOR SECRETARY MARSHALL TO DISCUSS  
YOUTH EMPLOYMENT IN U OF M LECTURE

(FOR IMMEDIATE RELEASE)

Ray Marshall, who served in the Carter administration as secretary of labor, will lecture on youth employment May 26 at the University of Minnesota.

Marshall, a professor of economics and public affairs at the University of Texas in Austin, will speak on "Youth Employment/Unemployment/Underemployment: A Continuing Dilemma," at 4 p.m. in 33 McNeal Hall on the St. Paul campus.

As secretary of labor, Marshall administered 24,000 employees and oversaw an annual budget of \$29 billion. While in that post he served on numerous boards and committees including the Interagency Council for Youth Unemployment, the President's Committee on Urban Development and Neighborhood Revitalization, the President's Commission on the Coal Industry, the Domestic Policy Council and the East-West Foreign Trade Board.

Marshall graduated from Millsaps College in 1949 and earned a doctoral degree from the University of California, Berkeley, in 1954. In 1955 he was a Fulbright Scholar to Finland and he attended Harvard University on a fellowship in 1960. He holds several honorary degrees including one from Rutgers University and one from the University of Maryland.

A prolific writer, Marshall's books include "Illegal Immigration: Challenge to the U.S.," published by the Economic Policy Council of the United Nations Association in 1981, and "Employment Discrimination: The Impact of Legal and Administrative Remedies."

Marshall's talk is being sponsored by the Center for Youth Development and Research in the College of Home Economics for the Gisela Konopka Lectureships. The lectureship was established to honor Konopka, a former professor of social work known for her work with youth.

An informal reception will follow Marshall's talk in the McNeal Hall lobby at 1985 Buford Ave. on the St. Paul campus.

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(A0,3,12,12a,12b;B1,8;C0,3,12,12a,12b)

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

MEMO TO NEWS PEOPLE

Updates on budget priorities, action on a proposal to refinance the University Hospital renewal project and an agreement on a hotel development project will face the University of Minnesota Board of Regents Thursday and Friday (May 12 and 13).

During three committee meetings, regents will hear recommendations from several colleges and units on funding reductions as the board works toward approving a budget plan in July. At the committee of the whole meeting Friday at 8:30 a.m. in 238 Morrill Hall, President C. Peter Magrath, finance vice president Fred Bohlen and Nils Hasselmo, vice president for administration and planning, will describe what has happened so far in the planning process and outline program and service priorities for the university.

Frank Wilderson, vice president for student affairs, will outline proposed budget cuts in student services Thursday at 3 p.m. in 238 Morrill Hall. How colleges have proposed meeting their budget-cutting targets will be presented by Kenneth Keller, academic vice president, at 3 p.m. Thursday in 300 Morrill Hall.

The committee of the whole will be asked to act on a plan to re-enter the bond market to trim interest rates on some of the \$156 million in tax-exempt bonds sold last December to finance the University Hospitals replacement building. Such refinancing could greatly reduce the hospitals' debt service and patient costs.

An agreement with Maddux Properties to build a hotel on the east bank of the Minneapolis campus will be up for action at the physical plant and investments committee meeting at 1:30 p.m. Thursday in 238 Morrill Hall.

The schedule of meetings and a sample of agenda items follows:

--Faculty and staff affairs committee, 1:30 p.m. Thursday, 300 Morrill Hall.

Review of early retirement and "buy-out" options.

--Physical plant and investments committee, 1:30 p.m. 238 Morrill Hall. The

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MAY 6, 1983

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NEWS PEOPLE: For further information  
contact PAUL DIENHART (612) 373-7512

PUBLIC HEALTH PIONEER  
TO BE HONORED BY U OF M

(FOR IMMEDIATE RELEASE)

Wesley E. Gilbertson, a pioneer in the field of public health and environmental engineering, will receive the University of Minnesota Outstanding Achievement Award May 9 at the noon luncheon of the Conference of State Sanitary Engineers at the Marriott Hotel, Bloomington.

The award is the highest honor given to former students who have achieved distinction in their fields.

During World War II, Gilbertson helped direct a malaria control program that evolved into the national Communicable Disease Center in Atlanta, Ga. He also worked on the dengue fever control program that helped protect U.S. military strength in the Pacific.

After the war he became executive officer of the Communicable Disease Center. Gilbertson helped supervise construction of hospitals and health centers during the Korean War. As assistant chief of the National Program of the Public Health Service in Washington D.C., he was involved in the early stages of the national pollution control program. He also served as chief of the Office of Solid Wastes and director of the Bureau of Environmental Health.

Gilbertson was an adviser to the World Health Organization (WHO) on advanced treatment of wastes and chaired a WHO committee that planned environmental health programs.

In 1936, Gilbertson was one of the first engineers to enroll in a new university program for public health workers. He received a master's degree in public health from the university in 1939.

The university's Outstanding Achievement Award cites his 40-year career in public health and environmental health, his pioneering work in communicable disease control, environmental protection and solid waste disposal and his leadership in the WHO.

Gilbertson, 69, is retired and lives in Sun City, Ariz.

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(A0,23,29;B1;C0,23,29;E23,29)

Note to Newspeople: Piven and Cloward will be available for interviews between 11 a.m. and 3 p.m. To schedule an interview, contact Fran Guminga at the School of Social Work. Her number is (612) 373-9786.

UNIVERSITY OF MINNESOTA  
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NEWS PEOPLE: For further information contact PAUL DIENHART, (612) 373-7512

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REAGAN CRITICS TO DISCUSS  
SOCIAL REFORM IN U OF M LECTURE

(FOR IMMEDIATE RELEASE)

Two outspoken critics of the Reagan administration's social policies will discuss their political strategies May 19 from 4 to 5:30 p.m. in the Coffman Union Theater at the University of Minnesota. The talk, "A Radical Vision: A New Political Base for Social Justice," by Richard A. Cloward and Frances Fox Piven, is free and open to the public.

Their recent book, "The New Class War: Reagan's Attack on the Welfare State and Its Consequences," has started a national debate among social scientists. Piven, a professor of political science at the City College of New York, and Cloward, a professor of social work at Columbia University, maintain that Reagan's social program is doomed to failure. They support such radical programs as a guaranteed annual income.

Their writings are credited with prompting the formation of the National Welfare Rights Organization, a social protest movement of welfare recipients. In the late 1950s, Cloward helped organize Mobilization for Youth in New York City, which became a model for Robert Kennedy's War on Poverty. To bring about change, Cloward and Piven advocate "strategies of disruption" like mass turnouts at welfare hearings.

Their talk is the William R. Hodson Memorial Lecture, sponsored by the university's School of Social Work.

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(A0,3,13;B1,8;C0,3,13)

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

U OF M BUILDING TO BE RENAMED  
TO HONOR LATE PRESIDENT MOOS

(FOR IMMEDIATE RELEASE)

The building that houses the University of Minnesota School of Dentistry and several health sciences departments will be renamed Friday (May 13) in honor of former university president Malcolm Moos, who died in 1982 .

The 20-story building, now known as Health Sciences Unit A, was completed in 1975. The building's name will be changed to Malcolm Moos Health Sciences Tower during a 2 p.m. ceremony in auditorium 2-650 of that building, which is on the east bank of the Minneapolis campus. The public may attend both the ceremony and the reception that will follow.

The ceremony will be attended by Moos's widow, Mrs. Tracy Moos, and their children. Dr. Malcolm Moos Jr. will speak on the family's behalf. The university will be represented by President C. Peter Magrath, Board of Regents Chair Wenda Moore and Regent Lauris Krenik. Neal Vanselow, vice president for health sciences, and Lyle French, Vanselow's immediate predecessor, will also take part in the ceremony.

Moos, the tenth president of the university, was the only native Minnesotan and only University of Minnesota graduate to hold that position. As president from 1967 until 1974, Moos oversaw the university during a time of campus unrest and dramatic changes in higher education.

During his long career, he served in the Eisenhower and Kennedy administrations and was a political scientist, a journalist and an author.

Moos died of an apparent heart attack at age 65 in his cabin at Ten Mile Lake in northern Minnesota on Jan. 28, 1982.

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MAY 10, 1983

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

U OF M RADIO COURSE  
WINS NATIONAL AWARD

(FOR IMMEDIATE RELEASE)

Journal and Memoir Writing, a University of Minnesota radio independent study course, has won a major award from the National University Continuing Education Association (NUCEA).

The course was developed by Patricia Hampl, an assistant professor of English, in conjunction with the department of independent study and radio station KUOM. The Meritorius Independent Study Award for a University Credit Course was presented at the NUCEA national conference in Reno, Nev., in April.

The practical writing course considers the benefits of keeping a notebook, writing from memory and developing habits of attention and observation. Readings of selected journals and memoirs are taken from Virginia Woolf, Mary McCarthy, Jean-Paul Sartre and Vladimir Nabokov. The radio programs include informal lectures by Hampl, interviews with other diarists and memoirists and discussions between Hampl and Steve Benson, a KUOM radio producer and writer.

Patricia Hampl, noted Minnesota writer, published her first book, "Woman Before an Aquarium," in 1978. In 1981 her memoir, "A Romantic Education," won a Houghton Mifflin Literary Fellowship. Hampl's poems, short stories and essays have appeared in various magazines, including The New Yorker, The American Poetry Review, Paris Review and the Kenyon Review. In 1982 a selection of her journal writings appeared in the anthology "Ariadne's Thread." A new book, "Resort and Other Poems," will soon be published.

Journal and Memoir Writing is offered for credit through independent study at the University of Minnesota. For further information contact Independent Study, 45 Westbrook Hall, 77 Pleasant St. S.E., University of Minnesota, Minneapolis, MN 55455, or (612) 376-4925.

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(A0,12,15;B1;C0,15;E15)



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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

WRITING WORKSHOPS OFFERED  
AT SUMMER ARTS STUDY CENTER

(FOR IMMEDIATE RELEASE)

The University of Minnesota's Summer Arts Study Center will offer more than a dozen week-long workshops in writing and book arts June 19 through Aug. 13 at Quadna Mountain resort.

The workshops will cover several types of writing, including journals and diaries, poetry, fiction, nonfiction, essays, children's literature, children's book illustration and bookmaking. In addition, some workshops will help people build the skills and discipline needed for all kinds of writing.

Two new instructors will participate in the 1983 season. Confronting the Empty Page, with Jill Breckenridge, will explore the use of the inner voice and creative approaches to fluent writing June 19 through 25; and Carol Bly, author of "Letters From the Country," will teach Idea and Persuasion: Writing Personal Essays. Participants will learn how to write in the versatile essay form that is used to comment on life.

There will be other familiar writers at the Quadna writing program, including poet Michael Dennis Browne, who will teach a poetry writing workshop and a new workshop designed for teachers of writing called Poetry in the Schools. Alan Burns will teach a fiction writing workshop; Phebe Hanson will return to teach Journals and Diaries; Marion Dane Bauer will teach Writing Fiction for Young People; and Arlene Rossen Cardozo will teach Writing and Marketing the Nonfiction Book.

Poet Natalie Goldberg will teach Writing: From the Raw to the Cooked, and will be the writer-in-residence at a new unstructured workshop for writers called Writers' Community. In this workshop, participants will work on their writing in a supportive community and design their own curriculum and schedule. In the related

(MORE)

WORKSHOPS

-2-

area of book arts, the Summer Arts Study Center features a new workshop taught by the renowned children's book illustrator and writer Uri Shulevitz, called The Art of the Picture Book. In addition, Nancy Hands will return to teach Introduction to Children's Book Illustration and master printer Gerald Lange will teach The Art and Craft of the Book.

For further information, contact Summer Arts Study Center, 320 Wesbrook Hall, 77 Pleasant St. S.E., Minneapolis, MN 55455 or (612) 373-4947.

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NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM, (612) 373-7514  
or NANCY GIROUARD, (612) 376-9780

JEHAN SADAT TO GIVE NEXT  
CARLSON LECTURE AT U OF M

(FOR IMMEDIATE RELEASE)

Jehan Sadat, wife of the late Egyptian president Anwar Sadat, will speak on world peace at noon May 23 in Northrop Auditorium in Minneapolis as part of the Carlson Lecture Series of the University of Minnesota Hubert H. Humphrey Institute of Public Affairs.

KUOM 770 AM will broadcast the speech live.

Since her husband's assassination, Sadat has emerged as a humanitarian leader of Egypt. During the wars of 1967 and 1973, Mrs. Sadat visited troops in the combat zone and made daily visits to the wounded and won widespread admiration from the Egyptian people.

In an interview with Morley Safer for CBS's "60 Minutes," she said: "I'm always thinking about the poverty and thinking at the same time about peace. All the money in our country, just preparing for war. If we could spend it here inside the country, we could do a lot for the people. I promise them, and I will do something for them."

The daughter of an Egyptian physician, Sadat met Anwar El-Sadat just after his release from prison for his opposition to King Farouk's government. When the couple married, Anwar Sadat and Gamal Nasser were battling to establish Egypt as a free and independent republic.

The mother of four children, Sadat favors considerable change in her country's family laws. She is also known as a champion of the physically handicapped.

The Carlson Lecture series was established by the Humphrey Institute about two years ago with a gift from Curtis L. Carlson, founder and chairman of the board of

(MORE)

SADAT

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the Minneapolis-based Carlson Companies. Several reknowned speakers have already participated in the program, which was set up to bring distinguished national and international leaders to the institute to talk about current topics of interest to the public. Among them have been Sen. Barry Goldwater, R-Ariz., former Vice President Walter Mondale, Vermont Gov. Richard Snelling, Coretta Scott King, U.N. Ambassador Jeane Kirkpatrick and Mayor Andrew Young of Atlanta.

For more information about the Carlson lecture call (612) 376-9789.

Sadat also is scheduled to speak for the Continuum Center at 8 p.m. the same day in Dayton's 8th floor auditorium in downtown Minneapolis. For more information about that talk, call Michael LaBrosse at (612) 370-4801.

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(A0,3,39;B1,8;C0,3,39;D0,3,39;F18,18q;22)

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NEWS PEOPLE: For further information  
contact PAUL DIENHART, (612) 373-7512

WHITE HOUSE REPORTER HELEN THOMAS WILL  
SPEAK AT U OF M IMMIGRATION CONFERENCE

(FOR IMMEDIATE RELEASE)

Helen Thomas, United Press International's White House bureau chief, will be the featured speaker at an international conference on the immigration of Arabic-speaking people to the United States before World War II to be held June 3 and 4 in St. Paul.

Thomas will speak about her Lebanese heritage at a 6:30 p.m. dinner June 3 at The Hotel St. Paul. Thomas began covering the White House in 1961, and was the first woman officer of the National Press Club and the White House Correspondents Association. In 1976 she was named by the World Almanac as one of the 25 most influential women in America. Reservations for the dinner are \$25.

The conference at St. Paul's Landmark Center will include exhibits, panel discussions and more than 25 speakers from around the world. Language loyalty, family and community history, ethnic identity and the role of women in Middle Eastern immigration are some of the topics to be addressed. More than 100,000 Arabic-speaking people came to the United States between 1880 and 1941. The conference also will hold a commemoration of the 100th anniversary of the birth of the Lebanese poet and novelist Kahlil Gibran.

The conference is open to the public, and registration is \$8; \$4 for students and senior citizens. For more information on the dinner and conference, contact the University of Minnesota's Immigration History Research Center (IHRC) at (612) 373-5581.

The conference and dinner are sponsored by the university's IHRC through a grant from the Minnesota Humanities Commission. It is the first Philip K. Hitti symposium, named after the late Princeton University professor who was the leading U.S. authority on the cultures of the Middle East. His papers are housed at the IHRC.

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(A0,3;B1,8;C0,3;F18,18q)

(FOR RELEASE ANYTIME)

Feature story from the  
University of Minnesota  
News Service, 6 Morrill Hall  
100 Church St. S.E.  
Minneapolis, Minnesota 55455  
Telephone: (612) 373-2466  
May 12, 1983

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TRANSPLANTS: A NEW CATCH-22?

By Chuck Benda  
University News Service

The Jamie Fiske story is heartwarming and it has a happy ending. But, it underscores a tremendous moral and ethical problem that has arisen as medical technology has advanced: The high cost of liver transplants and other complex life-saving procedures exceeds the ability of most individuals to pay, even when medical insurance covers part of the expense.

The minimum cost of a liver transplant is \$100,000 and can go as high as \$175,000. These figures are from Dr. John Najarian, chief of surgery at University of Minnesota Hospitals, where Jamie's story got its happy ending last November when a successful liver transplant focused national attention on the 11-month-old Massachusetts girl.

The policy at the university, which is similar to the policy at all major transplant centers, is to refuse to perform a liver transplant -- or any other transplant -- on an out-of-state patient who cannot demonstrate the ability to pay. Minnesotans who are unable to pay are eligible for state assistance. The only way that the University Hospitals could recover the costs of expensive procedures would be to pass them along to other patients -- a practice the hospital administration considers unfair since many of these patients have already accumulated a tremendous financial burden.

"I think what we're seeing here is a very dramatic example of a tremendous dilemma that's facing society in the United States," said Neal Vanselow, the university's vice president for health sciences. "I don't think we would feel comfortable no matter what position we took."

"If we just took all these patients (for liver transplants) and passed the cost on to other people who were unfortunate enough to be in the hospital in a given year

(MORE)

and had their bills increased because of it, we wouldn't feel right," Vanselow said. "At the same time, I don't think anybody feels comfortable with the current policy. This is kind of a no-win situation. No matter what you do, you're not doing as much as you would like to."

It is not an easy decision to make, to refuse treatment to non-Minnesotans who cannot pay, but it is, according to Vanselow, a decision that has been agreed to by the Board of Regents, the university administration, the hospitals administration and the doctors at the hospitals. It applies not only to liver transplants, but to heart transplants, to bone marrow transplants, and, in effect, to almost every form of care the hospitals provide. It becomes a question of the greater good. If the bills aren't paid, eventually University Hospitals would be unable to help anyone.

A common misconception, according to Najarian, is that the high cost of a liver transplant has been inflated by exorbitant surgeon's fees. But, there are no surgeons' fees included in the cost of a liver transplant, he said.

Roughly, about 40 percent of the cost of a liver transplant is for hospitalization -- room and board, so to speak; the other 60 percent goes for lab work, supplies, X-rays, operating room time, consultations and other expenses, Najarian said. These costs should come down some as the transplant procedure is refined, he said, but the cost is still going to be high.

"You need very intensive nursing care for these patients," since many require special treatment because anti-rejection drugs increase their susceptibility to infection, Vanselow said.

Society may have reached a point at which medical technology has advanced beyond society's ability and willingness to pay, Vanselow said. "There is tremendous concern in this country about the rising costs of medical care," he said. "The health care industry is now about 10 percent of the gross national product. It's been rising in recent years very significantly. I think there are two questions that need to be answered: What percent of the wealth of this country do we want to devote to health care? And how should we spend it?"

(MORE)

"Should we spend large amounts to save single individuals through liver transplants or artificial hearts," he asked, "or would we be better off -- let's take the \$175,000 liver transplant for example -- buying 175,000 doses of some kind of vaccine at \$1 a dose and immunizing 175,000 children?"

"I'm not sure the medical profession can make these kinds of decisions alone," Vanselow said. "I think we can develop the procedures. We can decide medically who is or is not a candidate for these procedures, but I think society is going to have to tell us how much of their money they want spent for health care, and then, how they want it spent."

Najarian agrees, and he adds one major criterion for making these decisions: the quality of life. "Our bottom line has always been quality of life. If you can't achieve quality of life, then it's not worth doing," he said. "If you can achieve quality of life, then it has to be paid for. The public must make a decision on whether it's willing to pay the price for the transplants, and for whom and where is the money going to come from?"

At University Hospitals steps have been taken to help potential organ transplant patients who cannot pay the costs of a transplant. First, it will do the necessary tests to determine if a candidate is suitable for a transplant even if the candidate does not have the ability to pay for the transplant, since administrators think it would be wrong to let the candidate go through the process of raising the money only to discover that the operation won't work.

Second, the university has representatives in the hospitals' business office who will help the patients by working with their home state's medical assistance office and other agencies to find ways to cover the bill. And third, a transplant fund has been established at the University Medical Foundation from private donations. Many people have made donations to the fund, but at this point it is not large enough to make a significant contribution to solving the problem.

One possible solution is national catastrophic health insurance, through which the federal government would pay for these procedures. Through 1975 legislation, the federal government pays for kidney transplants for those unable to pay. But still it is up to society to pay.

As medical technology continues to advance, the premise of the television series "The Six Million Dollar Man" is not far off. One day we may very well literally be able to pick up a man and put him back together. But what moral and ethical questions will have to be answered? Who will get to be the six-million-dollar man? Who will decide? And who will pay?

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MAY 13, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
May 18-24

**Wed., May 18--Bell Museum:** "Taking a Closer Look: High Magnification Nature Photography with a Biological Perspective," by Bruce Edinger, ground floor gallery. 9 a.m.-5 p.m. Tues.-Sat.; 1-5 p.m. Sun. Through May 30. Free.

**Wed., May 18--Nash Gallery:** MFA thesis exhibits: Robert Cochran, paintings and drawings; Tom Durham, sculpture; Dana Larson, paper and clay; Christy Reoh, photography. BFA exhibits: Carol Bush, ceramics; Anne Elias, sculpture; Jane Feicht, sculpture. Lower level, Willey Hall. 9 a.m.-4 p.m. Mon., Tues. and Fri.; 9 a.m.-9 p.m. Wed. and Thurs.; noon-4 p.m. Sat. and Sun. Through May 20. Free.

**Wed., May 18--Coffman Union Gallery:** MFA exhibit: drawings and ceramics by Andrena Wingate, Gallery 1. BFA exhibit: acrylics, watercolors and drawings by Joan Porter, Gallery 2. "Samurai and the American West," steel sculpture by Harry Koyama, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 25. Free.

**Wed., May 18--Bazaar:** Asian crafts and ethnic foods bazaar. Part of Asian/Pacific American Heritage Week. Coffman Union mall. 11 a.m.-1 p.m. Free.

**Wed., May 18--University Gallery:** "Lars Sonck, 1870-1956: Finland's Romantic Architect;" "Danish Literature," through May 29. "Music and the Pursuit of Happiness in the Eighteenth Century," through June 26. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., May 18--Lecture-demonstration:** "Maria Cheng - Chinese American Choreographer." Theater-lecture hall, Coffman Union. 12:15 p.m. Free.

**Wed., May 18--Film:** "Invitation to the Dance." Theater-lecture hall, Coffman Union. 7:30 p.m. \$2, \$1.50 for U of M students with current fee statements.

**Wed., May 18--University Film Society:** "The Coast of Love" (France, 1982). 7:30 p.m. "Smic, Smac, Smoc" (France, 1971). 9:15 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Wed., May 18--School of Music:** Brass Choir concert. Great Hall, Coffman Union. 8 p.m. Free.

**Thurs., May 19--Film-discussion:** "Jade Snow Wong." Part of Asian/Pacific American Heritage Week. 320 Coffman Union. 12:15 p.m. Free.

**Thurs., May 19--Films:** Films on Vietnam. Part of Asian/Pacific American Heritage Week. Theater-lecture hall, Coffman Union. 7:30 p.m. Free.

**Thurs., May 19--University Film Society:** "A Dirty Business" (France, 1981). 7:30 p.m. "The Bit Between the Teeth" (France, 1979). 9:30 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Thurs., May 19--Metropolitan Opera:** "Lucia di Lammermoor." Northrop Aud. 7:30 p.m. \$9-\$39. Tickets at 105 Northrop, 373-2345, Dayton's and Orchestra Hall.

(OVER)

**Thurs., May 19--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Fri., May 20--Bazaar:** Asian crafts and ethnic foods bazaar. Coffman Union mall. 11 a.m.-1 p.m. Free.

**Fri., May 20--Concert:** Asian American bands, contemporary music. Coffman Union mall. Noon. Free.

**Fri., May 20--Metropolitan Opera:** "Der Rosenkavalier." Northrop Aud. 7:30 p.m. \$9-\$39. Tickets at 105 Northrop, 373-2345, Dayton's and Orchestra Hall.

**Fri., May 20--Poetry reading:** Paul Metcalf with Keith Queensen. Mississippi room, Coffman Union. 8 p.m. Free.

**Fri., May 20--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sat., May 21--Metropolitan Opera:** "Adriana Lecouvreur." Northrop Aud. 1:30 p.m. \$9-\$39. Tickets at 105 Northrop, 373-2345, Dayton's and Orchestra Hall.

**Sat., May 21--Metropolitan Opera:** "La Forza Del Destino." Northrop Aud. 8 p.m. \$9-\$39. Tickets at 105 Northrop, 373-2345, Dayton's and Orchestra Hall.

**Sat., May 21--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 8 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

**Sun., May 22--University Theatre:** "The Pelican" by August Strindberg. Arena Theatre, Rarig Center. 3 p.m. \$5, \$4 for students and senior citizens. Tickets and reservations: 373-2337.

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UNIVERSITY OF MINNESOTA  
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NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM, (612) 373-7514

WOOD COLLAGE ARTIST, OTHERS TO BE  
HONORED IN RETIREMENT CEREMONY

(FOR IMMEDIATE RELEASE)

George Morrison, a University of Minnesota studio arts professor known throughout the country for his wood collages, is among 56 faculty and 124 staff members who will be honored at a retirement ceremony at 1:30 p.m. Wednesday (May 18) on the River Terrace of Coffman Union on the Minneapolis campus.

Morrison, 64, came to the university in 1970 on a dual appointment to the departments of American Indian studies and studio arts. He became a full professor of studio arts in 1972.

A Chippewa, Morrison was among a group of artists asked in 1979 to participate in the first Indian arts exhibition ever staged in Cuba. His paintings hang in collections throughout the United States and the world, including the Bezalel National Museum in Israel.

After his retirement Morrison and his wife, Hazel Belvo, plan to move to the North Shore of Lake Superior near the area where Morrison grew up.

Others to be honored Wednesday include:

--George Warp, who served as director of the university's public administration center, now the Hubert H. Humphrey Institute of Public Affairs, from 1952 to 1968. On the faculty since 1948, Warp spent 1957 through 1962 helping to establish a government-wide training program for public administrators in Korea.

During his career Warp served as president of the Minnesota Government-College Council and on the board of directors of the Senior Citizens Centers of Greater Minneapolis, a United Way agency.

--George Hage, 68, known to hundreds of journalism students who have enrolled in his classes since 1946. Known for his expertise in the literary aspects of

(MORE)

journalism, Hage was one of three recipients of a distinguished teaching award this spring from the College of Liberal Arts.

--Edith Mucke, 68, who influenced thousands of Minnesota women who took classes through Continuing Education for Women. She has served as director of the program for the last nine years.

--Jay Sautter, a professor of veterinary medicine since 1944 who received the University of Minnesota Award for Contributions to Education in 1964. He served as chairman of the pathobiology department from 1950 to 1965. During his career he taught as a visiting professor in Peru, Colombia, the Dominican Republic, Thailand and Nigeria.

--Louis Safer, who chaired the art and music department of General College until it was combined into a division about five years ago. His portrait of the poet John Berryman is part of the permanent collection of the National Portrait Gallery of the Smithsonian Institution in Washington. Safer joined the faculty in 1950.

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contact PAT KASZUBA, (612) 373-7516

NEW BOND ISSUE MAY SHAVE \$40 MILLION  
OFF U OF M HOSPITAL COSTS

(FOR IMMEDIATE RELEASE)

Falling interest rates can save the University of Minnesota up to \$40 million on its hospital renewal project, a university vice president told the Board of Regents Friday (May 13).

The regents voted unanimously to refinance \$156 million worth of hospital revenue bonds issued last December in order to save \$35 million to \$40 million on the 30-year bond issue. The board's action should decrease by \$7 the \$83 daily rate for a room in the 432-bed University Hospitals replacement building, which is scheduled to be completed in early 1986.

"I don't think there's any question that what we're doing is improving the bottom-line impact on hospital operations," said Frederick M. Bohlen, vice president for finance and operations, who recommended the board's action. "We're putting in place a brand-new, first-class medical facility and doing it at a lower net charge per patient.

"Since December the long, deep national and regional recession has apparently bottomed out and signs of economic recovery have generated continued improvement in the stock market and bond markets," he said. He said he hopes the university can enter the bond market within two weeks.

The refinancing is basically a substitution of a new, lower-interest bond for an existing bond issue. After the new bonds are issued and all refinancing costs have been paid, the proceeds will be placed in an escrow account and invested until the bonds are redeemed by purchasers. Interest on the existing issue ranged from 6.75 percent to 11 percent; rates on the new issue will range from 6.5 percent to 9.25 percent.

Construction on the first floor of the building began late last year and is expected to be occupied by the therapeutic radiology department early next year.

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NEWS PEOPLE: For further information  
contact MAUREEN SMITH, (612) 373-7507

U OF M REGENTS HEAR PROPOSALS  
FOR ACADEMIC PROGRAM CUTS

(FOR IMMEDIATE RELEASE)

A progress report on academic planning and program priorities at the University of Minnesota was presented to the Board of Regents Thursday and Friday (May 12 and 13).

Preliminary plans were presented from nine colleges on the Twin Cities campus, from the Morris and Crookston campuses and from the School of Medicine at Duluth. Academic vice president Kenneth Keller explained that these 12 plans are the ones on which substantial agreement has been reached between the collegiate units and the central administration.

Plans from some major units, including the Twin Cities campus College of Liberal Arts and Institute of Technology and the Duluth and Waseca campuses, are still being negotiated and will be presented to the regents in June.

Some of the Twin Cities campus changes outlined in the plans that were presented are as follows:

--Reducing the entering size in the School of Dentistry from 135 to 104 for the fall of 1984 and not filling five vacant faculty positions;

--Eliminating the undergraduate major in dance and the undergraduate major and graduate program in school health in the College of Education;

--Reducing student numbers in the two baccalaureate degree programs in the General College and phasing out the legal assistant certificate program; and

--Reducing the state funding for the James Ford Bell Museum of Natural History and asking the museum to seek private support.

The physical education major on the Morris campus is also targeted for elimination.

(MORE)

The proposal to cut the class size in dentistry is based on strong national evidence of an oversupply of dentists and a significant decline in the number of applicants, health sciences vice president Neal Vanselow told the regents.

No dollar amounts have yet been assigned to any of the proposed cuts. A budget plan, incorporating some of the cuts, will be presented to the board for information in June and action in July.

Many of the proposed changes represent long-range plans that will not lead to any immediate financial savings. In some cases, programs and positions have been designated for cuts, but the positions are held by tenured faculty members.

Tenured faculty members in programs slated for elimination or reduction will be offered early retirements or buy-outs, but the savings will depend on how many of these faculty members choose to accept the offers. "The whole thrust of this is voluntary," Keller said. In any case, the savings would not be immediate because the terms of a buy-out might, for example, be that a faculty member's salary would be paid for two years.

In addition to identifying programs and positions for cuts, some of the collegiate plans propose other ways of saving state money. The College of Biological Sciences will encourage faculty members to move from 12-month to 9-month appointments and find their own support for the summer, and to use some portion of their research grants to pay part of their salaries.

The College of Education is proposing that its summer courses be "inloaded," which means that summer teaching would become part of a faculty member's regular load. A faculty member would still teach three quarters out of four, but one of the three might be the summer. At present, faculty members who teach in the summer do so in addition to teaching for the whole academic year and receive additional pay.

Although the academic program priorities are intended to set a direction for the university, the extent of the retrenchment will depend on the legislative appropriation. The Minnesota House and Senate have each passed their own version of an appropriation bill, and a difference of almost \$16 million will have to be resolved in conference committee. The biggest difference is that the House bill calls for faculty and staff salary increases of 5 percent a year and the Senate bill calls for increases of only 3 percent a year.

Harry Sieben, speaker of the House, came to the regents' meeting to preside at a swearing-in ceremony for newly elected regent Wally Hilke and re-elected regents David Lebedoff, Charles McGuiggan and Wenda Moore. "The best investment I've made in my public life has been supporting the University of Minnesota," Sieben said.

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

U OF M ENGINEER WILL TALK ABOUT  
HIS NEW TRANSPORTATION SYSTEMS

(FOR IMMEDIATE RELEASE)

The concept and design of new systems of personal rapid transit will be discussed by J. Edward Anderson at 4 p.m. Friday (May 20) in 325 Coffman Union on the east bank of the Minneapolis campus of the University of Minnesota.

Anderson, a University of Minnesota mechanical engineering professor, recently filed for patents for components for a new transportation system that will move people in small, private vehicles along guideways narrow enough to fit on a highway median.

Anderson's presentation will be followed by a discussion.

For more information, contact Kyle Fairchild at (612) 373-2178.

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U OF M'S NEW LAW JOURNAL  
WILL LOOK AT SEX INEQUALITY

(FOR IMMEDIATE RELEASE)

A new law journal focusing on gender inequality will be published this month by students of the University of Minnesota Law School. The journal is thought to be the first of its kind in the country.

Editor Jane Binder of Minneapolis said the new journal differs from most because it will include articles with philosophical and sociological perspectives rather than presenting articles that merely explain what the law is.

Faculty adviser Professor Catharine MacKinnon said the journal, *Law & Inequality: A Journal of Theory and Practice*, also is unique because it is the first law school journal that has dedicated the first two issues solely to inequality and, specifically, to gender inequality. Problems of inequality in race and class will be included in the composition of some articles since they are most relevant to social policy, she said.

"One of the most important purposes of this journal is its educational mission as part of the law school," MacKinnon said. "Like the *Minnesota Law Review* (the law school's other journal) it provides an opportunity for students to write, edit and work closely with law as it is developing and to contribute their perspectives to developing legal literature."

A staff of approximately 35 second- and third-year law students has been putting the journal together since last May, Binder said. Each detail of writing is checked and double-checked for accuracy, which gives the law students practical experience toward their futures as attorneys.

MacKinnon said she is particularly hopeful that this journal will provide students with the latitude to think critically and creatively and to challenge

(MORE)

themselves and their readers to be innovative in the ways they think about legal issues.

The first issue will include four articles written by writers from outside the law school and an argument section, a note and a book review all written by students. A chapter on abortion from a previously published book, "Right Wing Women" by Andrea Dworkin, also will be included.

Titles of the articles are: "Equal Rights in Retrospect," "An Economic Analysis of Title 7 of the Civil Rights Act," "The Public Expression of Lesbian/Gay Personhood" and "On Merit." The book review will deal with "Rape in Marriage" by Dianna E.H. Russell.

Anticipating that the journal may be controversial, Binder said she thinks it will appeal especially to lawyers -- particularly women lawyers. But, she said, people from various walks of life have subscribed. Subscriptions were solicited through other legal publications and in women's studies departments at other universities. A press run of about 1,000 copies was ordered for the first issue.

"We have a lot of innovative ideas in our articles that practicing lawyers could use in writing a brief," Binder said. "The journal could help lawyers think beyond legalese and in a broader perspective."

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HAWAII SENATOR PART OF  
U OF M ASIAN-AMERICAN WEEK

(FOR IMMEDIATE RELEASE)

Sen. Spark Matsunaga, D-Hawaii, will visit the Twin Cities May 28 to speak at a dinner culminating the University of Minnesota's Asian/Pacific American Heritage Week.

Matsunaga will talk about the extent of Asian/Pacific Americans' involvement in politics at the federal and state levels and why Asian Americans should be more actively involved. The dinner, open to the public, will be a Chinese banquet from 7 to 9 p.m. at Hunan Garden, 380 Cedar St., St. Paul. Cost is \$15; \$12 for students.

The week-long festival is being sponsored by the Asian/Pacific American Learning Center, the Asian American Student Center and the Coffman Union Program Council of the university.

Matsunaga graduated from the University of Hawaii with a bachelor of education degree in 1941 and from Harvard Law School in 1951. Wounded twice in battle, he served as a company executive officer and company commander in the U.S. Army from 1941 to 1945. During his Army stint, he was assigned to the Military Intelligence Service Language School at Fort Snelling and helped relocate to the Midwest Japanese-Americans who had been in detention camps.

Matsunaga was elected to the U.S. House of Representatives for seven consecutive terms from 1962 until 1976, when he was elected to the U.S. Senate. He is co-chair of the Asian American Democratic Caucus of the Democratic National Committee.

Reservations for the dinner may be made by calling the Asian/Pacific American Learning Resource Center at (612) 373-7917 by May 25.

Other Heritage Week events scheduled for the Minneapolis campus this week include a free showing of documentary films on Vietnam from 7:30 to 9 p.m. Thursday (May 19) in the Theatre Lecture Hall of Coffman Union and an Asian craft and ethnic food festival from 11 a.m. to 1 p.m. Friday (May 20) in Coffman Union.

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MEMO TO NEWS PEOPLE

The North Star Ballroom, where the arms control forum will be held Wednesday, will be equipped with a camera platform and mult boxes for direct sound feed to the platform. A press section will be provided and signs will designate its location. Members of the media must show press identification to sit in the press section.

Parking for the media will be available at hooded meters on the left-hand side of Buford Street, between Cleveland and Eckles across from the St. Paul Student Center and on lower Buford Street by North Hall. To get to the parking areas, take Gortner south from Larpenteur to Buford, then go west on Buford.

Thursday (May 26) the Humphrey Institute will sponsor a seminar, "U.S.-Soviet Trade: Problems and Prospects," with Soviet and American delegates from 3:30 to 5 p.m. at the Sheraton-Ritz Hotel in downtown Minneapolis. It will be moderated by Bill Dietrich, the governor's special trade representative.

American panelists include Richard Clark, MTS Systems; Barney Saunders, Cargill; and Peter Weiss, an international trade consultant with Weiss, Dawid, Fross and Lehrman.

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(A0,3,13;B1,8)

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NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM, (612) 373-7514

AMERICANS, SOVIETS WILL DISCUSS  
ARMS CONTROL AT HHH INSTITUTE FORUM

(FOR IMMEDIATE RELEASE)

A public forum on nuclear arms control featuring Soviet and American panelists is being sponsored by the University of Minnesota Hubert H. Humphrey Institute of Public Affairs Wednesday (May 25) on the St. Paul campus.

Former New York Times editor and Moscow correspondent Harrison Salisbury will moderate the 90-minute panel discussion "Nuclear Arms Control: Soviet-American Perspectives" at noon in the North Star Ballroom of the St. Paul Student Center, 2017 Buford Ave.

Panelists include three Soviet delegates and Ruth Adams, editor of Bulletin of the Atomic Scientists, and Marcus Raskin, co-founder and senior fellow of the Washington-based Institute for Policy Studies. Another American panelist, who will be named later, is expected to participate.

Questions likely to be raised by Salisbury include: What is the official Soviet position on arms control? How does the U.S.S.R. view the nuclear freeze movement in the United States? What are the implications of the freeze/disarmament issue for the United States? Does either the United States or Russia consider a nuclear war winnable?

More than half of the session will be devoted to questions from the audience. In the event of an overflow audience, the theater in the lower level lobby of the center will be equipped with closed circuit television.

KTCA-TV, channel 2, will broadcast the forum on "Turning Point" from 7:30 to 9 p.m. Thursday (May 26).

The forum was scheduled because the Soviet delegation will be in Minnesota that week for the Minneapolis Conference on U.S.-U.S.S.R. relations.

The forum is free and open to the public. Parking is available in lot 101 at Commonwealth and Cleveland avenues on the St. Paul campus and in the State Fairgrounds lot. Persons with questions about parking may call (612) 373-1051.

For more information about the forum, call Nancy Girouard at (612) 376-9780 or Jayne Maracek at (612) 376-9781 at the Humphrey Institute.

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(A0,3,13;B1,8;C0,3,13;D0,3,13;F22)

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7,000 U OF M STUDENTS  
MAY GO THROUGH COMMENCEMENT

(FOR IMMEDIATE RELEASE)

Lt. Gov. Marlene Johnson will be among the speakers at commencement exercises for more than 7,000 graduates of the University of Minnesota, Twin Cities, which began this month and will continue for 18 schools and colleges during the next several weeks.

Johnson will deliver the commencement address at the School of Management's graduation exercises June 12. Other speakers will include professor emeritus Mulford Q. Sibley, who will address College of Liberal Arts graduates June 5, and university President C. Peter Magrath and his wife, Diane, who will speak at the 75th anniversary commencement of the department of mortuary science June 10.

Since spring commencement is the only graduation ceremony for some colleges and schools, students who have completed their studies in those units any time during the year may participate.

The Law School, which is on the semester system rather than the quarter system like most units in the university, graduated 220 students in a May 14 ceremony at which U.S. District Judge Miles Lord delivered the commencement address.

Other commencement dates and locations are as follows:

June 1 -- Institute of Technology, 7 p.m., Northrop Auditorium.

June 3 -- College of Home Economics, 7 p.m. Willey Hall Auditorium.

-- Medical School, 2:30 p.m., Northrop Auditorium.

June 4 -- College of Forestry, 5:30 p.m., St. Paul Student Center Theater.

-- General College, 2 p.m., Willey Hall Auditorium.

-- University College, 1:30 p.m., Coffman Union Great Hall.

(MORE)

COMMENCEMENT

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June 5 -- College of Liberal Arts, 1 p.m., Northrop Auditorium.

June 7 -- College of Agriculture, 7 p.m., Northrop Auditorium.

June 9 -- College of Education, 7:30 p.m., Northrop Auditorium.

June 10 -- School of Dentistry, 7:30 p.m., Northrop Auditorium.

-- Mortuary Science, 7:30 p.m. Coffman Union Great Hall.

June 11 -- College of Biological Sciences, 7:30 p.m., St. Paul Student Center,  
North Star Ballroom.

-- Graduate School, 7 p.m., Northrop Auditorium.

-- School of Nursing, 2 p.m., Mayo Auditorium.

-- School of Pharmacy, 2 p.m., Willey Hall Auditorium.

-- School of Public Health, 7 p.m., Phillips-Wangensteen Building.

-- College of Veterinary Medicine, 2 p.m., Northrop Auditorium.

June 12 -- School of Management, 2 p.m., Northrop Auditorium.

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(AO, 1, 7; B1; CO, 1, 7)

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U OF M BAND ALUMNI TO GATHER  
FOR CONCERTS JUNE 5

(FOR IMMEDIATE RELEASE)

Former members of University of Minnesota bands will gather June 5 to perform and to a kick off the newly established Friends of the University Bands Endowment Fund, which will be used for scholarships and staffing needs.

Concerts will be on the mall in front of Northrop Auditorium on the Minneapolis campus from 2 to 4 p.m. Beginning at 7:30 p.m. the university's current Wind Ensemble, Jazz Ensemble, Alumni Band and 300-piece Marching Band will perform in Northrop Auditorium. The concerts are open to the public at no charge.

Anyone with university band memorabilia -- photographs, programs or recordings -- is asked to bring it along to the concerts.

The person who can claim the title of oldest band alumnus will be named band director for the reunion. A dance and reception will be held for all band alumni at Coffman Union following the concert.

For more information, contact Arlene Bennett at (612) 376-5341.

-UNS-

(A0,2,2d;B1,13;C0,2,2d;F13)



UNIVERSITY OF MINNESOTA  
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MAY 20, 1983

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GAHP

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
May 25-31

**Wed., May 25--Bell Museum:** "Taking a Closer Look: High Magnification Nature Photography with a Biological Perspective," by Bruce Edinger, ground floor gallery. 9 a.m.-5 p.m. Tues.-Sat.; 1-5 p.m. Sun. Through May 30. Free.

**Wed., May 25--Paul Whitney Larson Gallery:** "In Focus Outdoors," Cooperative Outdoor Adventure's first annual outdoor photography exhibit. St. Paul Student Center. 9 a.m.-6 p.m. Mon., Tues. and Thurs.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through June 3. Free.

**Wed., May 25--Coffman Union Gallery:** MFA exhibit: drawings and ceramics by Andrena Wingate, Gallery 1. BFA exhibit: acrylics, watercolors and drawings by Joan Porter, Gallery 2. "Samurai and the American West," steel sculpture by Harry Koyama, Gallery 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through May 25. Free.

**Wed., May 25--University Art Museum:** "Lars Sonck, 1870-1956: Finland's Romantic Architect;" "Danish Literature," through May 29. "Music and the Pursuit of Happiness in the Eighteenth Century," through June 26. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., May 25--Concert:** Patrice and Louis Kotva. St. Paul Student Center lawn. Noon. Free.

**Wed., May 25--Lecture-demonstration:** N6, a Japanese traditional theatre of music, dance and drama featuring master teacher Akira Matsui. Theater-lecture hall, Coffman Union. 3:15 p.m. Free.

**Wed., May 25--Dance concert:** U of M student dance concert. The Theatre, St. Paul Student Center. 8 p.m. \$3, \$2 for U of M students and senior citizens. Reservations: 373-3224.

**Wed., May 25--School of Music:** University Symphonic Chorus and the Civic Orchestra of Minneapolis concert. Northrop Aud. 8 p.m. Free.

**Wed., May 25--School of Music:** University Symphony Orchestra concert. St Paul Student Center ballroom. 8 p.m. Free.

**Thurs., May 26--Goldstein Gallery:** "Design Faculty Exhibition": Richard Abell; Harold Alexander; Marian-Ortloff Bagley; Timothy Blade; Charlene Burningham; Eugene Larkin; Joseph Ordos; Roger Peterson; Mary Stieglitz-Witte. 241 McNeal Hall. 8 a.m.-4 p.m. Mon-Fri. Through June 24. Free.

**Thurs., May 26--University Art Museum:** "Images of the American Worker 1930-1940." Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Through July 10. Free.

**Thurs., May 26--Film-discussion:** "If There Were No Blacks, You Would Have to Invent Them." John Burton, discussion leader. 320 Coffman Union. 12:15 p.m. Free.

(OVER)

**Thurs., May 26--Dance concert:** U of M student dance concert. The Theatre, St. Paul Student Center. 8 p.m. \$3, \$2 for U of M students and senior citizens. Reservations: 373-3224..

**Thurs., May 26--School of Music:** University Symphony Orchestra concert. Northrop Aud. 8 p.m. Free.

**Fri., May 27--Bijou film:** "Some Like It Hot" (Billy Wilder, 1959). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Sat., May 28--Bijou film:** "Some Like It Hot" (Billy Wilder, 1959). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Tues., May 31--Coffman Union Gallery:** "Studio Arts Graduating Seniors Exhibit." Galleries 1, 2 and 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through June 10: Free.

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(A0;B1;F2)

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MAY 24, 1983

MTL  
N 417  
904P

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

FEDERAL JUDGE WILL RECEIVE  
TOP U OF M ALUMNI HONOR

(FOR IMMEDIATE RELEASE)

U.S. District Judge Diana Murphy of Minneapolis will receive an Outstanding Achievement Award from the University of Minnesota June 6.

The award, the highest honor the university gives its alumni who have achieved distinction in their fields, will be presented to Murphy at the Minnesota Alumni Association's annual meeting, which will begin at 6 p.m. at the Minneapolis Hilton Hotel.

Murphy graduated from the university in 1954 with a major in Middle European studies. She received a Fulbright Scholarship, which she used to study history at Johannes Gutenberg University in Mainz, Germany. She returned to the University of Minnesota in 1955 for graduate study in history.

Murphy decided to study law in 1971 and received her law degree magna cum laude three years later. While at the university Law School, she was editor of the Law Review in 1973-74. She joined the firm of Lindquist and Vennum as a law clerk and became an associate in the firm in 1974. She was appointed to a Hennepin County municipal judgeship in 1976, became a Hennepin County district judge in 1978 and in February 1980 she was appointed to the U.S. district court for Minnesota.

She is active on several boards and committees, including the Minnesota Civil Liberties Union, the Minneapolis League of Women Voters and the Urban Coalition of Minneapolis. Murphy is currently national president of the Minnesota Alumni Association.

-UNS-

(AO, 11; B1, 6; CO, 11; E11)

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MINNEAPOLIS, MINNESOTA 55455  
MAY 24, 1983

MTR  
N47  
904P

NEWS PEOPLE: For further information  
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ANIMAL-HUMAN BOND FOCUS OF  
U OF M CONFERENCE IN JUNE

(FOR IMMEDIATE RELEASE)

Animals -- how our lives are changed by them and how we affect their lives -- will be the subject of a national conference on the animal-human bond sponsored by the University of Minnesota June 13 and 14 at the Radisson South Hotel in Minneapolis.

More than 100 nationally and internationally known health professionals and community leaders will present recent research findings on the contribution of animals to the quality of life, a relatively new area of study. The major focus of the research to be presented centers on the interaction between companion animals and people and on the management, behavior and well-being of farm animals.

More than 500 people from health professions, humane societies, nursing homes, agencies that deal with aging, universities and animal control agencies are expected to attend the conference.

"How-to" sessions and workshops on improving the behavior of pets and the quality of companionship and using pets in therapy in long-term care facilities will also be part of the conference.

The fee for the conference is \$80 if registration materials are mailed before June 6; after June 6, the fee is \$100. Registration materials -- including information on hotels -- can be obtained from James O. Hanson, 414A Veterinary Hospitals, 1352 Boyd Ave., University of Minnesota, St. Paul, MN 55108.

The conference is being sponsored by the university's Center for the Study of Human-Animal Relationships in their Environment (CENSHARE) and the School of Public Health.

-UNS-

(A0,3,6,30;B1,3,8,16;C0,3,6,30;D0,6,30)

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NEWS SERVICE, 6 MORRILL HALL  
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MAY 24, 1983

DATE  
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9 04P

NEWS PEOPLE: For further information  
contact RALPH HEUSSNER, (612) 373-5830

U OF M DOCTOR HEADS  
NATIONAL RADIOLOGY GROUP

(FOR IMMEDIATE RELEASE)

Seymour Levitt, professor and chairman of the department of therapeutic radiology at the University of Minnesota, has been elected president of the American Radium Society (ARS), an 800-member organization of scientists and clinicians involved in cancer research and education.

Levitt, who has served as president-elect for the past year, was named to the top office during the society's annual meeting in Savannah, Ga., recently.

Levitt described the ARS as the oldest group for the study of cancer in the United States.

Before coming to the university in 1970, Levitt was chairman of the division of radiotherapy and oncology at the Medical College of Virginia.

Levitt, a resident of Edina, Minn., is an active member of several state and national professional organizations and has written more than 100 scientific papers and four textbooks.

-UNS-

(A0, 12, 12a, 24; B1, 4; E24)

UNIVERSITY OF MINNESOTA  
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MAY 25, 1983

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NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM, (612) 373-7514

TWO 'U' MUSEUM EXHIBITS FOCUS  
ON HISTORY OF AMERICAN WORKERS

(FOR IMMEDIATE RELEASE)

Workers and their labor are the focus of two exhibitions in University Art Museum (formerly University Gallery) in Northrop Auditorium on the Minneapolis campus of the University of Minnesota.

"Building a New World: Black Labor Photographs" depicts the history of black labor in the United States from Reconstruction to the present. Approximately 50 black-and-white photographs show the black workers' struggle for equality in the labor market. Photographs taken during the 1930s indicate an awareness of the plight of black workers during the Depression. The exhibition runs through June 12.

"Images of the American Worker, 1930-1940" also focuses on the Depression. This exhibition includes an overview of the decade and portrays the worker as a hero and as an average citizen. The exhibition, which runs through July 10, includes paintings, prints, sculpture, photographs and posters.

The exhibitions are free and open to the public. Museum hours are 11 a.m. to 4 p.m. Monday, Tuesday, Wednesday and Friday; 11 a.m. to 8 p.m. Thursday; and 2 to 5 p.m. Sunday.

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(A0,2,2a,8c;B1,13;C0,2,2a,8c)

UNIVERSITY OF MINNESOTA  
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100 CHURCH ST. S.E.  
MINNEAPOLIS, MINNESOTA 55455  
MAY 25, 1983

NEWS PEOPLE: For further information  
contact PAUL DIENHART, (612) 373-7512

NEW MAGAZINE LOOKS AT HOW WE WORK  
AND WHAT HAPPENS WHEN WE DON'T

(FOR IMMEDIATE RELEASE)

Work is the center of our lives. We spend our childhoods dreaming of the work that will occupy our adult years. We enter traditional jobs and watch them change, we take it upon ourselves to bring change to the workplace, and sometimes, we have change thrust upon us.

A new magazine called "Work in Progress, a Minnesota Perspective" explores some of the dreams and realities surrounding work and unemployment in Minnesota. Members of a University of Minnesota magazine production class talked with children, workers and the unemployed in the Twin Cities and on the Iron Range about their experiences and feelings regarding work.

"Work in Progress" attempts to examine work as a personal experience -- from the dedication of the professional musician to the philosophy of the popcorn entrepreneur, from the growing despair of the unemployed to the growing confidence of women building professional networks. What is it like to be a miner on the Iron Range when the mines close? How do people train for work, how do they make the transition from one job to another? How are child-care facilities, job-sharing, flexible hours and flexible benefits improving and humanizing the work place? The magazine tells the stories, in words and pictures, of Minnesota people whose lives have brought them face to face with these questions.

"Work in Progress" was planned, researched, designed, written and photographed by journalism students at the University of Minnesota. Camera-ready pages were produced in the School of Journalism and Mass Communication graphics laboratory.

Production costs were paid through a fund established in memory of Milton Kaplan, president of King Features Syndicate until his death in 1972. Kaplan was a

(MORE)

1943 journalism graduate of the University of Minnesota. Previous publications made possible by this fund are: "Closing the Circle, The Indian in Minneapolis: A New Era"; "The Discerning Eye, Minnesota Innovators"; "Minnesota's Mississippi"; "Age, A Minnesota Perspective"; "Liberal Arts, Making the Grade?"; "...And a Time to Die"; and "Survivors, Political Refugees in the Twin Cities."

Copies of "Work in Progress" may be obtained by sending \$1.50 per copy plus 50 cents for postage and handling to Student Publications, School of Journalism and Mass Communication, 111 Murphy Hall, 206 Church St. S.E., University of Minnesota, Minneapolis, MN 55455.

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(A0,7,20;B1,14;C0,7,20;D20;E20)



(FOR RELEASE ANY TIME)

Feature story from the  
University of Minnesota  
News Service, 6 Morrill Hall  
100 Church St. S.E.  
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Telephone: (612) 373-7514  
May 25, 1983

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JAP

THE ONLY EXCESS THAT BODY WRAPS TRIM  
IS IN YOUR BANK ACCOUNT

By Judith Raunig-Graham  
University News Service

Persons tired of dieting may be attracted by advertisements suggesting a "body wrap" as a quick way to trim down, but professors at the University of Minnesota say they are worthless and could even be harmful.

"You lose from your pocketbook," said Arthur Leon of the university's Laboratory of Physiological Hygiene. "It just dehydrates a person. The only way to lose weight is to wrap something around your mouth."

The typical pitch from firms that advertise body wraps is that the process breaks down "cellulite" and that a person can lose from five to 15 inches on the first visit. The process varies slightly from one firm to another, but generally the client is wrapped in elastic bandages that have been dipped in mineral oil and then sits wrapped in plastic for about an hour. The price for one session runs about \$30.

Leon, director of research in applied physiology and nutrition in the laboratory, said effectiveness claims for the body wrap process have no scientific validity. Furthermore, he said, the wraps could be dangerous for a person suffering from a heart condition or high blood pressure.

The process could be harmful to some persons, Leon said, because the wrap raises the body temperature, causing a loss of perspiration. The loss of perspiration reduces the blood volume, putting additional strain on the heart, which has to beat faster to circulate the remaining blood more quickly to the tissues.

Leon said anyone who contemplates undergoing such a wrap process should check with a physician first, since in the worst instance, a heart attack or stroke could be the result.

(MORE)

Leon, a member of the American Institute of Nutrition and the American Physiological Society, also debunked the claim that the process is based on the principle of isometric exercise. "It has nothing to do with isometrics, which are muscular contractions," he said. "Isometrics build muscles so they would actually increase your dimension or add inches."

Leon suggested that this fad appeals to people who are looking for a quick "cure" for overweight. "The only way to lose weight and inches is through proper eating habits and exercise," he said. "Everybody is looking for something magic, rather than taking responsibility for their own health."

Some body wrap firms apply cream to particularly fat areas of the body, claiming that the cream attacks fat cells, but Leon said the cream is probably a common chemical, perhaps with added lanolin and vitamins. "There is no known substance that would be absorbed by the body and attack fat," he said. "You have to burn 3,500 calories to burn one pound of fat or decrease food intake."

Professor Joanne Slavin, of the department of food science and nutrition, pointed out that the use of the term cellulite (the orange peel look) also has been questioned because there is no evidence that it exists. It is simply fat, she said.

Women store fat differently than men, Slavin said, and they put fat on in their legs and thighs, but the fat cells do not contain toxins as some of the body wrap salons claim.

"Most women are about 25 percent body fat," Slavin said. "A range they would want to get down to is 20 percent or lower, and the only effective way to do that is to exercise."

"It's really important to understand that it is body composition and not body weight that is important," Slavin continued. "What happens to a lot of people is that they exercise, but they don't lose weight because they are converting fat to muscle. Muscle weighs more than fat."

Slavin agreed with Leon that there is no scientific evidence that the body wrap could work. "Whenever you see these schemes that say they'll melt fat away, it's very questionable. It's just water loss you sweat off. The problem is when you tell people that exercise is the way to go, you lose about 90 percent of your audience so these 'get-thin-quick' schemes sell well."

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MAY 27, 1983

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UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
June 1-7

**Wed., June 1--Goldstein Gallery:** "Design Faculty Exhibition": Richard Abell; Harold Alexander; Marian-Ortloff Bagley; Timothy Blade; Charlene Burningham; Eugene Larkin; Joseph Ordos; Roger Peterson; Mary Stieglitz-Witte. 241 McNeal Hall. 8 a.m.-4 p.m. Mon-Fri. Through June 24. Free.

**Wed., June 1--Paul Whitney Larson Gallery:** "In Focus Outdoors," Cooperative Outdoor Adventure's first annual outdoor photography exhibit. St. Paul Student Center. 9 a.m.-6 p.m. Mon., Tues. and Thurs.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through June 3. Free.

**Wed., June 1--Coffman Union Gallery:** "Annual Studio Arts Graduating Seniors Exhibit." Galleries 1, 2 and 3. Galleries 1 and 2: 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Gallery 3: 7 a.m.-10 p.m. Mon.-Fri. Through June 10. Free.

**Wed., June 1--University Art Museum:** "Music and the Pursuit of Happiness in the Eighteenth Century," through June 26. "Images of the American Worker 1930-1940," through July 10. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., June 1--Concert:** Ann Reed. St. Paul Student Center lawn. Noon. Free.

**Wed., June 1--University Film Society:** "The Yin and the Yankee" (U.S.A., 1982). 7:30 p.m. "God's Gift" (Upper Volta, 1982). 9 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Thurs., June 2--University Film Society:** "Apprehension" (E. Germany, 1982). 7:30 p.m. "Measure for Measure" (Bulgaria, 1982). 9 p.m. Bell Museum of Natural History aud. \$3. Information: 373-5397.

**Thurs., June 2--School of Music:** University Chamber Orchestra concert. Scott Hall aud. 8 p.m. Free.

**Fri., June 3--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Fri., June 3--Bijou film:** "It Happened One Night" (Frank Capra, 1934). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Fri., June 3--Concert:** Jim Post and Randy Sabien. The Theatre, St. Paul Student Center. 8 p.m. \$3, free to U of M students with current fee statements. Reservations: 373-1051.

**Sat., June 4--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Sat., June 4--Bijou film:** "It Happened One Night" (Frank Capra, 1934). West Bank Union aud. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Sun., June 5--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

(OVER)

Sun., June 5--School of Music: University Marching Band, Wind Ensemble, Jazz Ensemble I and Alumni Band concert. Northrop Aud. 7:30 p.m. Free.

Mon., June 6--Paul Whitney Larson Gallery: "Variations on a Theme," photographs by Steve Kenow; renderings by Marti Kenow. Paul Student Center. 9 a.m.-6 p.m. Mon., Tues. and Thurs.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through July 15. Free.

Mon., June 6--University Film Society: "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Tues, June 7--University Film Society: "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

-UNS-

(A0;B1;F2)

UNIVERSITY OF MINNESOTA  
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MAY 27, 1983

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NEWS PEOPLE: For further information  
contact RALPH HEUSSNER, (612) 373-5830

YOUNG DIABETICS NEEDED  
FOR U OF MINNESOTA STUDY

(FOR IMMEDIATE RELEASE)

A national study on controlling diabetes and its complications is seeking local 16- and 17-year-old diabetics to participate.

Jose Barbosa, associate professor of medicine at the University of Minnesota, is one of 21 principal investigators in the study, which is aimed at determining the best method of blood-sugar control to prevent complications that lead to eye and kidney problems. To volunteer for the study, call Barbosa at 373-8707.

Diabetes is the leading cause of blindness and the third leading cause of death by disease in the United States. There are an estimated 5 million diagnosed diabetics in the United States and about the same number currently undiagnosed.

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(A0,23,24;B1,4)

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JUNE 2, 1983

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NEWS PEOPLE: For further information  
contact JEANNE HANSON, (612) 373-7517

U OF M STUDY NEEDS TWINS  
BORN IN STATE 1936-55

(FOR IMMEDIATE RELEASE)

Same-sex twins born in Minnesota between 1936 and 1955 may participate in the Minnesota Twins Study, for which a University of Minnesota research group plans to create a registry of the 12,000-some sets of twins born in this state during those years.

Twins who register will be sent a short biographical questionnaire, and then will be invited to participate in psychological and related studies, some of which will include payments. Subjects will receive the computerized results of a series of personality and interest tests.

To register, contact the Minnesota Twins Study, Box 392 Mayo, University of Minnesota, Minneapolis, MN 55455 or (612) 373-5038.

-UNS-

(A0,4,6;B1,16;C0,4,6)

UNIVERSITY OF MINNESOTA  
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JUNE 2, 1983

MTR  
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9A9Z

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

PHYSICIST TO RECEIVE  
U OF M HONORARY DEGREE

(FOR IMMEDIATE RELEASE)

A physicist whose pioneering work in the 1920s was so advanced that scientists did not begin to appreciate its impact for decades will receive an honorary doctor of science degree from the University of Minnesota at the Graduate School commencement June 11 at 7 p.m.

Joseph Valasek is recognized internationally for his discovery of ferroelectricity -- the spontaneous and reversible electric polarization of crystalline substances -- which went unheralded for years. "He was so far ahead of his time that the world was not prepared to utilize the discovery and it took some years to appreciate its importance," wrote Alfred O.C. Nier, regents' professor emeritus of physics, in supporting Valasek for the honorary degree. Nier called Valasek's work one of the "most important, if not the most important, discoveries in physical science ever made at the University of Minnesota."

Valasek's discoveries have had a number of important applications -- from sonar detectors to laser technology and computer elements -- and may have a broad impact on the future of communications technology, according to Allen M. Goldman, professor of physics.

Valasek, 86, was born in Cleveland, and earned a bachelor of science degree from the Case Institute of Technology in 1917. He earned his master's degree and doctorate in physics from the University of Minnesota in 1920 and 1921, respectively. He joined the university faculty as an assistant professor in 1922 and retired in 1965 as a full professor.

An honorary degree is the highest award given by the University of Minnesota in recognition of excellence. Valasek's honorary degree is the 61st awarded by the university since 1925.

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(A0, 4, 4h; B1, 12; C0, 4, 4h; E4)

(FOR RELEASE ANY TIME)

Feature story from the  
University of Minnesota  
News Service, 6 Morrill Hall  
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June 2, 1983

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THESE MANAGEMENT STUDENTS MAY CROSS  
'MAIN STREET' TO GET TO WALL STREET

By Judith Raunig-Graham  
University News Service

When business students at the University of Minnesota enroll in classes they are likely to find themselves studying the poet T.S. Eliot instead of working with a computer.

Students who earn a bachelor's degree from the School of Management are now required to make liberal arts courses 50 percent of their total program. The majority of their other coursework is still in business, but the change represents a major shift.

"We're not educating people just to fit a slot in a company," said Julie Carson, director of the undergraduate program. "We want them to fit into their community and the society in which they're living."

In the past students were allowed to choose about 22 percent of their course work from any college, but most chose classes within the School of Management. Two years ago that changed. Now they must take no more than 40 percent of their courses there.

The shift toward more liberal arts in the curriculum reflects a renaissance of interest in the liberal arts nationally, Carson said. She believes top-level management has begun to shy away from specialization. An opinion survey that included responses from chief executive officers and recruiters in Twin Cities firms influenced the faculty's decision to emphasize the liberal arts.

"There are two things liberal arts classes offer in general: skills and a content that helps one form judgments," Carson said. "A history course is not only research, but provides perspectives to help one make decisions. It multiplies the aspects of any situation because you realize so much can be brought to any

(MORE)



situation."

In order to graduate, the business students are now required to take 19 courses in the liberal arts. Only students who have attained standing as juniors are admitted to the program. After admission they must take two expository writing courses and two performance courses from the speech, rhetoric or theater arts departments.

Three courses in literature and artistic expression and three in international studies also are required. Typical courses might be Survey of American Literature, 1900-1945, in which students are likely to study the writing of Sinclair Lewis, including "Main Street," and International Communication, a journalism course.

The students must also take a laboratory science course and another science course that promotes an understanding of how science improves one's standard of living.

Platform Performance, offered through the theater arts department, has been one of the most popular courses students are now required to take. The course emphasizes an interpretation of literature and was developed specifically for the management students by Professor Virginia Fredricks. In this class students read aloud, individually and in groups.

"The main advantage of the course is that it enables students to broaden their literary background and come into contact with people who are creative artists," Fredricks said. "It requires a stretching of the imagination and students also become comfortable in working with other people and in releasing a range of emotional responses."

Carson believes the university may have the only business curriculum in the country in which students are required to take such a class. And she thinks it helps them on several levels. They must learn to analyze material and the way they deliver it, she said.

Fredricks said that student evaluations of the course have been overwhelmingly positive. One student wrote: "I'm more confident with myself in general and

(MORE)

especially in speaking before people. I feel I learned some essential tools for conveying my thoughts and opinions to others. These are tools that will come in handy in my business career."

Another student said, "If you can acquire good communication skills, you've got it made. Remaining calm and being able to represent your views is essential in the business world and everywhere."

It is too early to tell what effect the curricular change will have on students' abilities to get jobs since this year's graduating class is composed of the first students to finish the new program, Carson said.

"It's difficult to say whether the curriculum has much to do with the job market," Carson said. "But the management training plus the liberal arts makes students leaders. The combination may not make a difference at the entry level, but it will 10 years down the line.

"One of the difficulties in justifying the liberal arts is that they're not immediately applicable," Carson continued, "but you see the result of the broad liberal arts when you get into discussions with people."

One Twin Cities executive who strongly favors the revision is Ron Hubbs, founder and chairman of St. Paul Companies. A member of the program's advisory board, Hubbs said he believes business students should have a grounding in the liberal arts because a manager learns early that he or she needs a broad perspective.

"You cannot examine problems looking down a tunnel," Hubbs said. "You have to become a generalist. Certainly, a liberal arts student or one who has been exposed to the liberal arts will have a much better understanding of these problems, which is necessary to carry out responsibility."

Another advocate of the change is Chris Johnson, director of corporate relations for Medtronics in Minneapolis. A member of the business community for 10 years, Johnson said she thinks the benefits of the liberal arts come because of the development of problem-solving skills and of writing and communication skills.

"Increasingly in business we find that factors impacting on the company may change and the experience of having worked in different disciplines and being knowledgeable about different disciplines can help one respond to changing situations," Johnson said.

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JUNE 6, 1983

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U OF M ARCHITECTURE STUDENT WINS  
DESIGN AWARD FOR LAKEFRONT COMPLEX

(FOR IMMEDIATE RELEASE)

A design for a lakefront museum -- complete with retail stores, restaurant, garden, health spa, theater and marina -- has won a University of Minnesota architecture student a \$1,000 national prize and \$500 for the School of Architecture.

The award, second place in a national contest sponsored by the Association of Collegiate Schools of Architecture and the American Wood Council, was made recently in Washington to Norman Barrientos, a 23-year-old architecture student from Madison, Wisc., for his design for a Lake Michigan site. Contest requirements were that the design be energy efficient and use wood, according to Stephen Weeks, assistant professor of architecture and Barrientos's instructor in the design course in which the project was developed.

Contest judges were architects Frank Gehry of California, Stanley Tigerman of Chicago and Robert A.M. Stern of New York.

-UNS-

(A0,37;B1,12;C0,37)

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JUNE 6, 1983

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NEWS PEOPLE: For further information  
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'U' THEATRE STAGES 'FLORODORA'  
ON MISSISSIPPI RIVER SHOWBOAT

(FOR IMMEDIATE RELEASE)

"Florodora," a lighthearted musical comedy combining romance, the South Seas, heroes and villains, will be the University Theatre's 1983 Showboat production June 14 through Aug. 21 at the University of Minnesota.

The play, to be directed and choreographed by Robert Moulton, opened in New York in 1899 after a successful London run. It takes place on the South Seas island of Florodora, where a much sought-after perfume is made, and in an English castle.

Gilfain, a villainous magnate, is attempting to cheat the heroine, Dolores, out of her inheritance: the secret formula for the perfume and the deed to the island. His machinations are foiled by Dolores with the help of her fiance, his aunt and a comic phrenologist, who helps dash the villain's plot by reading the bumps on people's heads.

The Showboat is docked on the Mississippi River at the east bank of the University of Minnesota campus; the landing is south of the Washington Avenue Bridge on East River Road, below the University Hospitals.

Curtain times will be 8 p.m. for the Tuesday, Wednesday, Thursday and Friday shows; 7 and 10 p.m. Saturdays and 7 p.m. Sundays. There will be Sunday matinees at 2 p.m. on June 26, July 10 and 24 and Aug. 21.

Marie Jeannotte, a graduate student from Medina, N.D., will play Dolores. She appeared in "The Belle of New York" on the Showboat last year and was seen this fall in "The Mikado."

Graduate student Warren G. Green, of St. Louis Park, will play the evil Cyrus Gilfain. He was in the 1980 Showboat production, "Charlie's Aunt," and has also appeared in "Macbeth" at the Palace Theatre.

(MORE)

The role of the hero, Frank Abercoed, is played by John Catania, a graduate student from New Berlin, Wis. He has appeared in "The Mikado" and "Billy Budd" at the university.

Laurel Fardella, a graduate student from Bethel Park, Pa., will portray the aunt, Lady Holyrood. She has appeared in "Lysistrata" and the "The Mikado" at the university.

Anthony Tweedlepunch, the phrenologist, will be played by Tom Whalen. He has been in the Minnesota Opera Workshop production of "Kismet" and in "The Mikado" at the university and is a graduate student from Grand Forks, N.D.

Tickets are \$6 for the public and \$5 for students and senior citizens at all performances. University staff and faculty may attend the shows on Thursday, late Saturday and Sunday for \$5.

Group rates are available for 25 or more persons. For ticket information call (612) 373-2337.

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(A0,2,2e;B1,13;C0,2,2e)

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JUNE 7, 1983

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NEWS PEOPLE: For further information  
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MEMO TO NEWS PEOPLE

A press conference Sunday (June 12) and a press luncheon Monday will kick off the two-day University of Minnesota conference on the animal-human bond, which begins Monday at the Radisson South Hotel in Bloomington.

A stroke victim and the cat she lives with in a St. Paul nursing home, a legally blind woman who recently won a championship for obedience training her dalmatian, and a lamb that is used to teach children about farm animals will be at the press conference to illustrate aspects of research on relationships between people and animals. The press conference will begin at 3:30 p.m. in Atrium II at the hotel.

Dr. R. K. Anderson, director of veterinary public health at the university, will be at the press briefing to talk about the conference and about the Center for the Study of Human-Animal Relationships in their Environment (CENSHARE).

The press luncheon, which will be in Veranda VII at 12:30 p.m., will include brief talks by five researchers on the conference program. Space is limited, so if you want to attend, call James O. Hanson at (612) 373-1154 by noon Friday. Researchers at the luncheon will be:

--Robert ten Bensel, University of Minnesota, who will talk about abused children and their pets and will provide an overview of this relatively new area of study, which examines how animals affect our quality of life.

--A.H. Kidd, Mills College, Oakland, Calif., who will talk about how the personalities of horse-, turtle-, snake- and bird-owners differ.

--Benjamin L. Hart, University of California at Davis, who has compiled a quantitative list of the the traits of breeds of dogs.

--Karen DePauw, Washington State University, who will discuss therapeutic horseback riding for the handicapped.

(OVER)

--Ron Kilgour, Ruakura Agriculture Research Center, New Zealand, who will talk about the treatment and well-being of farm animals.

Dr. Stanley Diesch, conference chairman and director of CENSHARE, will also be at the luncheon to provide an overview of the conference and current research.

News people are also invited to a wine and cheese reception at the hotel's poolside Garden Court at 6 p.m. Monday.

More than 100 nationally and internationally known health professionals and community leaders will present research findings during the conference. The major focus of the research centers on the interaction between companion animals and people and on the management, behavior and well-being of farm animals.

More than 500 people from health professions, humane societies, nursing homes, agencies that deal with aging, universities and animal control centers are expected to attend this national conference.

How-to sessions and workshops on improving the behavior of pets and the quality of companionship and the use of pets in nursing homes will also be part of the conference.

-UNS-

(A0,6,30;B1,3,16;C0,6,30;D6,30;E4,6,30)

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PUBLIC HEALTH NURSE  
HONORED BY U OF M

(FOR IMMEDIATE RELEASE)

A pioneer in public health nursing with the World Health Organization (WHO) and the U.S. Public Health Service will be given an Outstanding Achievement Award from the University of Minnesota Saturday (June 11).

The award, the highest honor the university gives its alumni who have achieved distinction in their fields, will be presented to Doris Roberts during the School of Public Health's commencement, which will begin at 7 p.m.

Roberts, who received a master of public health degree from the university in 1958, worked with the U.S. Public Health Service from 1945 until 1975, when she retired as chief of nursing practice in the division of nursing.

She is internationally recognized as a leader in public health research, education and service. She began her association with WHO in 1961 and has continued her work with the Geneva-based organization.

Roberts, a resident of Chevy Chase, Md., earned a Ph.D. in epidemiology from the University of North Carolina, Chapel Hill, in 1967.

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(A0,29;B1,4;C0,29;D29;E29)



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JUNE 8, 1983

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NEW EVIDENCE SHOWS YELLOW RAIN  
CONTAMINATION IN SOUTHEAST ASIANS  
PRODUCED BY MAN, NOT BEES

(FOR IMMEDIATE RELEASE)

"Unfakable evidence" that Hmong people in Southeast Asia have been victims of a toxin known as yellow rain has been disclosed by the only researcher who has studied samples of human tissue from that area.

The evidence of the chemical tricothecene -- commonly called yellow rain because of its appearance as it falls from airplanes -- has been detected in the heart, liver, kidney, stomach, esophagus, large intestine, blood and urine of Southeast Asians by University of Minnesota plant pathologist Chester Mirocha.

Mirocha said his findings constitute "unfakable evidence" that the toxin -- previously detected on leaves in areas of Laos, Vietnam and Kampuchea (Cambodia) -- cannot be of natural origin. The results "leave no doubt in my mind that the Hmong people of Southeast Asia must have been the victims of chemical attack," he said.

The suggestion recently made at a national meeting of scientists that yellow rain comes from bee excrement is "ridiculous, and even absurd," Mirocha said. Although his analyses of the human tissue results will not be published until January in the Journal of the Association of Official Analytical Chemists, Mirocha said he wants to refute the bee theory now.

The claim that bees could be responsible for the toxin was set forth at the national meeting of the American Association for the Advancement of Science in Detroit on May 31 by Harvard biochemist Matthew Meselson. He theorized that bees might have excreted pollen onto leaves, which were then colonized by a fungus, and combined with the fungus to produce the toxin. Meselson's theory was reported in the New York Times and elsewhere.

But Mirocha, who Science magazine called "the nation's most skilled analyzer

(MORE)

of the tricothecien family of toxins," said no human being could assimilate, metabolize and retain this much toxin from natural sources. Any food contaminated in this way would be inedible. And human tissues, unlike leaves, cannot conceivably have been "spiked" with toxin; the body tissues studied contained four different and rare metabolites -- results of the body's processing of the toxin -- not the toxin itself.

Concentrations were, in parts per million, 4.02 in heart tissue, 2.55 in kidney tissue and 1.2 in liver tissue, in one example of contamination, Mirocha said. In all, he studied blood, urine and organ samples from four Hmong persons who are still living and about 10 who are dead.

"There is no hard scientific data to support such a hypothesis (as Meselson's)," Mirocha said. "To cover a village with yellow (pollen) spots, it would take 10,000 bees dive-bombing an area and excreting all at once." And still, no tricothecene would be produced.

Furthermore, Mirocha said, the only fungus that can create this kind of tricothecene toxin is fusarium -- and it cannot grow under the conditions required in the bee hypothesis. On large, damp pollen deposits upon leaves fusarium would lose out ecologically to more aggressive fungi such as penicillium and aspergillus and would not be able to create the toxin. Only two of the samples that show toxins contain any pollen at all, Mirocha said.

In fact, added Bruce Jarvis, a chemist at the University of Maryland who has studied leaf samples contaminated with yellow rain, the fusarium fungus is not even present on Meselson's bee pollen in significant concentrations, as would be expected.

The yellow rain issue is highly charged politically. If Soviet-backed forces in Laos and Kampuchea have indeed been spraying, bombing and shelling areas of Southeast Asia with these biological warfare toxins since 1976, as has been alleged, they have violated the 1972 Convention on Biological Weapons. Their credibility in current and future arms control negotiations would then be diminished and the overall progress of the talks slowed.

(MORE)

Mirocha, who does not like to see scientific findings politicized, notes that "we are all dependent on the samples we receive"; in this case, they often were brought out of the area under dangerous conditions by Hmong, Western physicians and U.S. State Department officials. But, he said he has "no reason to be suspicious of these samples," since they have come through government scientists he "knows and trusts." Mirocha also notes that he receives "blind" samples and does not know where they have come from or whether they are likely to be contaminated. His first set of analyses was made before he was even told that the samples came from Asia.

Samples of the toxin on leaves, plant stems, cereal grains, rocks and in water constituted the first stage of evidence last year, Mirocha said. His results -- analyzed on his gas chromatograph/mass spectrometer detector that is sensitive to one part per trillion, or down to the level of a few trillion molecules -- showed large concentrations on some samples from certain areas, but none on samples from other areas. They did not show the large yellow pollen spots that would be expected if bee excrement had been colonized by fungi.

Corroborating evidence of the existence of yellow rain has come from the Hmong people themselves. One of them, Vang Sheu, a former paratrooper and now a resident of the United States, testified in 1982 before a subcommittee of the House Committee on Foreign Affairs that some 70,000 Hmong have died from the toxin. His information, he said, was based on thousands of individual reports from his countrymen.

In November 1981 a journalist who covered the Vietnam War and its aftermath told the Senate Foreign Relations Committee that her Hmong sources had told her of hundreds dying from a single air attack of the toxin. The journalist, Jane Hamilton-Merritt, estimated that 20,000 Hmong had been exposed to the "poisonous rains" by 1981.

The effects of yellow rain immediately after exposure include vomiting, headaches, blurred vision, bloody diarrhea, hemorrhaging, bone marrow depression (which stresses the body's immune system), rapid heartbeat and, at high enough concentrations, death.

Mirocha said his next step will be to investigate his theory that long-term residues of the toxin, especially in heart tissue, may be causing the "sudden death syndrome" that has killed 70-some Southeast Asian immigrants, mostly Hmong, in this country. Mirocha said his sophisticated instruments show that the toxin remains in heart tissue for much longer than was previously thought possible.

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JUNE 9, 1983

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U OF M VP HASSELMO  
ACCEPTS POSITION IN ARIZONA

(FOR IMMEDIATE RELEASE)

Nils Hasselmo, vice president for administration and planning at the University of Minnesota, has accepted the post of senior vice president for academic affairs and provost at the University of Arizona in Tucson.

He will become chief academic officer for the one-campus land grant institution, which includes programs in the arts and sciences, and several professional schools, such as law, engineering, medicine and agriculture, effective Sept. 15.

Hasselmo said the decision to leave the University of Minnesota, where he has worked and taught for the past 18 years was "a tough decision because I have enjoyed very much working with President (C. Peter) Magrath and my colleagues here." The new post will give him responsibility for academic programs and present "new challenges in dealing with significant issues in planning and development," he said.

Hasselmo has been vice president at the University of Minnesota since January 1980. In that post, he organized the university's long-range planning. For the past few years, extreme pressure has been placed on the institution's planning process because the state's financial problems have resulted in a series of major cuts to the university budget.

Magrath said the success of that planning process, despite the fiscal pressures, has "stabilized the university from the shocks of the past few years."

Hasselmo's current duties as vice president also include responsibility for personnel, faculty collective bargaining, intercollegiate athletics and campus security. He also serves on the four-person budget executive, which helps to determine all major program and budget issues.

(MORE)

"I congratulate Dr. Hasselmo on what is an exciting career move," Magrath said. "I feel very good for him but bad for the university, not just because he has been a very important force in planning, but because he is such a fine professor."

Hasselmo joined the University of Minnesota in 1965 as associate professor of Scandinavian languages and literature. While at the university he has held several posts, including those of director of the Center for Northwest European Language and Area Studies, chairman of the Scandinavian department and associate dean of the College of Liberal Arts.

He was born and educated in Sweden, and immigrated to the United States in 1958, where he completed a Ph.D. in linguistics at Harvard University.

-UNS-

(A0,1;B1;C0,1;E15)

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JUNE 9, 1983

DTR  
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7-4p

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MEMO TO NEWS PEOPLE

Sen. Lowell Weicker, R-Conn., will speak in Minneapolis Saturday (June 11) evening at a dinner for the Hubert H. Humphrey North-South Fellowship Program Summer Workshop.

Weicker will speak on "American Aid for the Developing World: Ideals, Ideas and Ingenuity," at 8 p.m. in the Michigan Room of the Leamington Hotel. In his talk, Weicker is expected to evaluate the effectiveness of various exchange programs including the North-South Fellowship Program. There will be a table for members of the media.

The fellowship program brings mid-career professionals who have been identified as leaders in their home countries to study at educational institutions in the United States for one year. This year 80 fellows from 53 countries in Africa, Latin America, Asia and the Middle East participated. Twelve of them studied for the last three quarters at the University of Minnesota. The Hubert H. Humphrey Institute of Public Affairs coordinated their stay.

The dinner is the culmination of a week-long stay at the Institute, where fellows gather at the end of their year in the United States to discuss special problems facing developing nations.

Cocktails are scheduled for 6 p.m. in the President's Room; dinner is at 7 p.m. Members of the media who want to attend the dinner should call (612) 376-9781 for reservations.

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JUNE 10, 1983

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U OF M, MORRIS, HONORS GRADUATE  
WINS BRITISH AWARD

(FOR IMMEDIATE RELEASE)

Lorie Ann Skjerven, who graduated from the University of Minnesota, Morris, with distinction and a 4.0 grade point average this month, was awarded a Royal Society of Arts Silver Medal at the university Board of Regents meeting Friday.

The award is given each year to college students in this country by the Royal Society for Encouragement of Arts, Manufactures and Commerce of London, which is headed by Britain's Prince Philip. The award is given to students who receive undergraduate degrees with high academic achievement and who have shown leadership abilities in student activities.

Skjerven earned her bachelor of arts degree in political science in three years from the University of Minnesota, Morris. She served as a teaching assistant in political science for three years, as president of the Morris Campus Student Association in 1982-83, and as a congressional intern for Rep. Arlan Stangeland, R-Barnesville, last summer.

Skjerven, who will enter Georgetown University Law School this fall, is the daughter of Roger and Charlotte Skjerven, Plummer, Minn. She is the 12th University of Minnesota student to receive the award since the Royal Society invited the university to participate in the program.

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(A0,7;B1;C0,7)

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U OF M REGENTS GET FIRST LOOK  
AT 'OPTIMISTIC' BUDGET PLAN

(FOR IMMEDIATE RELEASE)

A \$366 million budget plan "far more optimistic" than originally expected was submitted to the University of Minnesota Board of Regents Friday (June 10).

The administration plan for the 1983-84 general operations and maintenance budget is based on \$247 million that will come from legislative appropriations and \$77.3 million from tuition income, requiring an average tuition increase of 15.9 percent, with considerable differences among units.

"Recent history gave us all too many opportunities to practice our subtraction skills, but very few chances to improve our addition skills," university President C. Peter Magrath told the board. "We've still had to engage in some subtraction in putting together this budget, but the bottom line is a larger bottom line. It is a far more optimistic budget than virtually any of us would have thought possible as little as six months ago."

The plan for the budget for the fiscal year, which will not begin until September 1, includes \$6.65 million in internal cuts and redistribution to other units. This internal retrenchment and reallocation totals about 2.84 percent of the university's budget base. University officials had expected a cut of about twice that amount to be necessary.

A budget based on the plan will be submitted to the board for approval in July.

The tuition increase recommended by the administration represents one step in a four-year plan to move toward having all students pay the same percentage of instructional costs. Units such as the General College and the College of Liberal Arts (CLA) -- the largest single unit within the university -- face lower than

(MORE)



average increases because classes are less expensive to teach than in high-cost graduate programs.

Under the plan, students in the General College would pay 9.5 percent more next year and CLA students would pay 11.7 percent more for a cost of about \$470 per quarter in each of those units. Tuition for professional programs will increase by about 30 percent, bringing the cost to about \$1,145 per quarter.

To help offset rising tuition in particularly hard-hit areas, the plan calls for \$600,000 to be set aside for financial aid for graduate students, including 15 percent for minority and disadvantaged students.

The budget plan also includes 6 percent for faculty salary increases to be distributed by departments on the basis of merit. Under the plan, civil service staff will receive a 5 percent increase in salaries and fringe benefits after state civil service employees complete collective bargaining, since the same pay rates apply to both units.

In other action, the board approved an agreement with Maddux Properties to build a 306-room hotel on the east bank of the university's Minneapolis campus. The hotel, which was first proposed in October 1980, will be built on a two-acre tract of land adjacent to Harvard Street and Washington Avenue S.E. The agreement calls for 116 rooms to be offered at economy rates to University Hospitals patients and their families.

The university won't participate in the operation of the hotel, but will share in profits from gross receipts from room rental and bar and restaurant proceeds in return for a 50-year lease on the university-owned land. The university anticipates profits of \$80,000 to \$100,000 a year.

Regent Lauris Krenik of Madison Lake was elected to replace Wenda Moore as chair of the board; Charles McGuiggan of Marshall was elected vice chair of the board.

The board also approved student services fees of \$79.40 per quarter -- including \$2.81 for the Minnesota Daily -- for Twin Cities students. Fees for coordinate campus students were approved last month. Those fees are: Crookston, \$51; Duluth, \$62.95; Morris, \$70; and Waseca, \$44.10

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(A0,1;B1;C0,1;E15)

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JUNE 10, 1983

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UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
June 15-21

**Wed., June 15--Goldstein Gallery:** "Design Faculty Exhibition": Richard Abell; Harold Alexander; Marian-Ortloff Bagley; Timothy Blade; Charlene Burningham; Eugene Larkin; Joseph Ordos; Roger Peterson; Mary Stieglitz-Witte. 241 McNeal Hall. 8 a.m.-4 p.m. Mon-Fri. Through June 24. Free.

**Wed., June 15--Paul Whitney Larson Gallery:** "Variations on a Theme," photographs by Steve Kenow; renderings by Marti Kenow. St. Paul Student Center. 9 a.m.-6 p.m. Mon., Tues. and Thurs.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through July 15. Free.

**Wed., June 15--University Art Museum:** "Music and the Pursuit of Happiness in the Eighteenth Century" and "Works from Kuopio, Finland," through June 26. "Images of the American Worker 1930-1940" and "Undergraduate Honors Exhibition," through July 10. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., June 15--Concert:** Minneapolis Chamber Symphony, Jay Fishman conducting. Northrop mall. Noon. Free.

**Wed., June 15--Film:** "The Graduate." Theater-lecture hall, Coffman Union. 7:30 p.m. \$1.

**Wed., June 15--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. Information: 373-5397.

**Wed., June 15--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Thurs., June 16--Concert:** Richard Taylor and the River City Ramblers, bluegrass. Coffman Union mall. Noon. Free.

**Thurs., June 16--Lecture-demonstration:** New Dance Ensemble. Northrop Aud. Noon. Free.

**Thurs., June 16--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Thurs., June 16--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Thurs., June 16--Concert:** The Dead Kennedys, punk rock. Great hall, Coffman Union. 8 p.m. (doors open at 7). \$6.50, \$6 for U of M students with current fee statements. Advance student tickets at MSA Store, non-student tickets at Hot Licks, Northern Lights, and Oarfolkjokepus.

**Fri., June 17--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Fri., June 17--Bijou film:** "Born Yesterday" (George Cukor, 1950). Program hall, West Bank Union. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

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**Fri., June 17--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Sat., June 18--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Sat., June 18--Centennial Snowboat:** "Florodora." 7 and 10 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Sat., June 18--Bijou film:** "Born Yesterday" (George Cukor, 1950). Program hall, West Bank Union. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Sun., June 19--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 5:45, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Sun., June 19--Centennial Showboat:** "Florodora." 7 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Mon., June 20--Concert:** Kenny Horst Quartet, straight-ahead jazz. Northrop mall. Noon. Free.

**Mon., June 20--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Tues., June 21--Concert:** J.D. Steele Singers, gospel music. Northrop mall. Noon. Free.

**Tues., June 21--Concert:** River City Ramblers, blues and folk. St. Paul student center lawn. Noon. Free.

**Tues., June 21--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Tues., June 21--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

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UNIVERSITY OF MINNESOTA  
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100 CHURCH ST. S.E.  
MINNEAPOLIS, MINNESOTA 55455  
JUNE 13, 1983

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1102

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

MEDICINE LAKE DRIVERS WILL GET  
U OF M ORIENTATION

(FOR IMMEDIATE RELEASE)

Medicine Lake Bus Co. drivers who will take over routes at the University of Minnesota July 1 will get a chance to learn about the university community Thursday (June 16) during an orientation session at 1:30 p.m. at the St. Paul Student Center.

Medicine Lake will take over the university's intra-campus bus service, which carries students between the east bank and west bank of the Minneapolis campus and between the Minneapolis and St. Paul campuses. The routes are now served by Metropolitan Transit Commission, which lost the contract in March when Medicine Lake submitted a bid \$900,000 lower than the MTC's. The MTC's Route 52 commuter bus service will not be affected.

Medicine Lake will provide the intra-campus service with refurbished 1963-66 buses, which will be painted maroon and gold.

The university's police department, St. Paul Student Center and transit service will be represented at the orientation session in room 202 of the Student Center.

-UNS-

(B1)

(FOR RELEASE ANY TIME)

Feature story from the  
University of Minnesota  
News Service, 6 Morrill Hall  
100 Church St. S.E.  
Minneapolis, Minnesota 55455  
Telephone: (612) 373-7514  
June 13, 1983

TEENS SAY SEX EDUCATION IS A GOOD IDEA,  
MINNESOTA YOUTH POLL REPORTS

By Judith Raunig-Graham  
University News Service

Teen-agers responding to a University of Minnesota youth poll strongly endorsed more sex education in the schools as a means of combating unwanted pregnancy among teen-agers.

Conducted last spring by the Center for Youth Research and Development in the College of Home Economics, the survey was designed to attempt to understand teen-agers' views on pregnancy and parenthood. Researchers Diane Hedin and Paula Simon said they hoped the study, "Minnesota Youth Poll: Youth's View of Teen-age Pregnancy and Parenthood," would help draw young people into policy discussions about adolescent sexuality and pregnancy. The poll results will be published in July.

A total of 650 youths aged 14 to 17 representing urban, suburban and rural public high schools throughout Minnesota participated. Students at 13 public high schools were included, as were teen-agers who attended a 4-H junior leadership convention and clients from a suburban teen clinic.

Participants were divided into self-selected groups of four to seven to answer the questionnaire composed of open-ended questions designed to elicit themes and variations. Unlike more traditional opinion polls, the Minnesota Youth Poll focuses on the meanings and assumptions youths use to understand their world. Twice as many girls as boys responded to the current poll.

Asked whether they thought sex education in school might be a contributing factor to teen pregnancy -- a view espoused by some political and religious conservatives -- 95 percent of the respondents said that it did not. Further, the teen-agers said sex education informed them about the risks of being sexually active and probably prevented unwanted pregnancy.

(MORE)

Although sex education was viewed as a helpful preventive strategy, some students said they needed more sex education that would emphasize the moral dimensions of sexuality. Answers given among the 5 percent who thought sex education could lead to teen pregnancy suggested that information was presented when children were too young to understand it.

The researchers suggested to the students that some people think teen-agers get pregnant because they don't know about birth control, while others believe teen-agers have enough information, but don't use their knowledge.

They then asked, "What do you think has caused the high rate of pregnancy?" About 90 percent of the respondents said teen-agers have adequate information about contraception, but that lack of access to birth control and embarrassment about discussing it were more influential in accounting for unwanted teen pregnancy.

Typical of the answers elicited was this: "The information is there, but nobody dares to ask publicly for birth control methods because it brings them into the open."

Another student said, "A 15-year-old won't walk into a drugstore and ask for a box of contraceptives because it's too embarrassing and they think they will be laughed at."

Fifteen percent of the students interviewed said that society's general acceptance of adolescent sexuality was the major cause of teen-age pregnancy. They indicated that a teen-ager's level of information about birth control was not as important to understanding teen-age pregnancy as was tolerance in the larger community.

The third most frequent reason suggested the high rate of teen pregnancy occurs more often because of carelessness than ignorance.

Hedin and Simon analyzed the discrepancy between the respondents' knowledge of birth control and reluctance to use it. They wrote, "It appears that sex education, from their (the teen-agers') perspective, is a necessary but not a sufficient condition for preventing teen-age pregnancies."

(MORE)

To combat the discrepancy, the researchers advocated that sex education that emphasizes values, decision making and problem solving might be more helpful than education solely focused on facts.

Asked whether the welfare program Aid to Families with Dependent Children (AFDC) encourages young single women to have babies, the majority of respondents said no, but one-third thought it was an inducement.

The students also were asked about the so-called "squeal rule" that requires parents to be informed if their teen-age daughter has received birth control at a clinic. Seventy-five percent of the respondents thought the rule was a bad idea and suggested that it would result in a rise in the pregnancy and abortion rates.

Said one student: "This law would be more damaging than it would be good. If people had to have their parents permission, they probably won't use any birth control at all. Result: more unwanted pregnancy."

Typical of other answers was this: "There will be more teen-age pregnancy due to the fact that teen-agers will not want to tell their parents or stop having sex."

Besides considering the rule a bad idea because it won't work, the respondents objected to it because they considered it a violation of privacy. Many teen-agers said they did not think parents should be notified because it was none of their business.

Some students objected to the rule because they felt it would cause more family tension. "It would just be unbearable," said one student. "Your parents would go crazy and drive their kids nuts, too. Most parents just don't want to know that their kids are having sex."

Although none of the urban students thought the rule was a good idea, approximately 15 percent of the rural and suburban teen-agers thought it was. Those who favored the rule said it was the parents' responsibility to know about their daughter's sexual behavior, that it was in the girl's best interest to have her parents involved or both.

About 10 percent of the respondents neither opposed nor supported the rule, but offered other perspectives. Some suggested that chronological age was not an index of maturity. Others said that the federal government was not the proper party to encourage a dialogue between parent and child.

(FOR RELEASE ANY TIME)

Feature story from the  
University of Minnesota  
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June 14, 1983

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SCHOOLS AND PARENTS NEED TO HELP  
KIDS UNDERSTAND PEACE AS WELL AS WAR

By Judith Raunig-Graham  
University News Service

Children are profoundly affected by the threat of a nuclear holocaust and parents and educators ought to address their fears in a structured way, a University of Minnesota professor thinks.

James Mackey, a professor in the department of curriculum and instruction in the College of Education, has been interested in children's views of war and peace for about 20 years. His interest developed out of his research on alienated youth and how children are inducted into political culture.

During the past Christmas vacation, Mackey decided to research the area. He spent five hours a day in the library for two weeks and concluded that most schools don't deal with the issues of war and peace in the curriculum even though by the age of 8 children have definite ideas about war.

Funds to study in depth what children think about war and peace haven't been available, Mackey said, but data gathered over the past 50 years indicates some consistent themes.

In the May issue of Curriculum Review, Mackey wrote that younger children are more interested in the machinery of war such as tanks, guns and airplanes. By age 10 children begin to develop opposition to war and to concentrate on the reality of fighting and death. As they become teen-agers, youths are able to develop some justification for war, but still tend to view warfare simplistically. Children living in nations at war tend to support the war, the research shows, but subsequent generations develop strong anti-war attitudes.

Mackey also found that the research indicates girls and boys differ in their attitudes toward war. Girls are more likely to condemn war and tend to believe it

(MORE)



is unnecessary, but boys are more concerned with the strategies of war.

Mackey's interest in children's views also prompted him to visit with elementary school children during the past year. He discovered that most of them saw no reason they would go to war and that all of them believed nuclear war would occur in their lifetime.

But children are discouraged from facing the realities of nuclear war, in Mackey's view. He believes that leaves them psychologically numb. The past becomes meaningless and the future seems unpredictable, so undue importance is placed on the present, he said.

Many researchers, Mackey said, have found that most children are much more capable of providing a description of war than of peace. Children use inactive words like tranquility to define peace and they see no clear way to achieve it.

"Although there is an emerging body of literature on peace," Mackey said, "there is a real paucity of curricular materials on peace. Parents must demand that schools begin to teach these issues in school. There are no courses on peace in the schools now."

Mackey, a former junior and senior high school social studies teacher, said that absence of information in the classroom during the Vietnam War resulted in an alienated and cynical youth. Social studies teachers, he said, were cautious about teaching controversial subjects so that teen-agers found avenues for their political interests outside the schools.

"Failure to understand the Vietnam War may have distorted our thinking and resulted in an unreasoned dialogue," Mackey said. "We must not allow that to happen again."

Mackey not only advocates that specific classes on peace and war be developed in the schools, he also thinks there should be a deliberate attempt to teach "world-mindedness" in several subjects besides history and geography. "We must have world cultures brought into everyday issues," he said.

Mandatory reading of newspapers and cross-cultural exchanges would be two

(MORE)

PEACE

-3-

methods for helping students develop more world-mindedness, he said. Students should also be shown models of negotiation and taught conflict-resolution skills such as cooperation and compromise in their existing courses. They should examine such issues as disarmament and world order.

Mackey's advice to parents is to take advantage of opportunities at home to discuss war and peace. Television is a powerful source of information and he suggested that parents need to help their children make sense out of what they view.

-UNS-

(AO,14,16;B1,11;CO,14,16;  
DO,14,16;EO,1,14,16)

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JUNE 14, 1983

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NEWS PEOPLE: For further information  
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WHITE-COLLAR PRODUCTIVITY  
FOCUS OF U OF M CONFERENCE

(FOR IMMEDIATE RELEASE)

As the national economy moves increasingly toward service and information industries, the need for systematic attempts to improve productivity among white-collar workers is growing. That need will be the focus of a two-day University of Minnesota conference beginning June 20.

"Productivity in Office Settings" will look at what can be done to improve productivity among managers, professional and support staff. The conference will look at the trends and issues in the field; show examples of approaches taken by local companies; and provide guidelines for designing and introducing programs into companies.

Steve Leth, vice president of the American Productivity Center in Houston, will discuss white-collar productivity in the United States and how it is changing, citing case histories his firm has developed for several businesses, including Honeywell and the First Bank System.

Other speakers include David Dotlich, corporate manager of human resources development for Honeywell, who will talk about what changes in productivity systems mean for people, and Thomas R. Conroy, president of T.R. Conroy Associates in Minneapolis, who will discuss the role of technology.

The fee for the conference, which will be held in the Earle Brown Continuing Education Center on the St. Paul campus, is \$225 per person or \$200 if more than one person from the same organization attends. Call (612) 373-3680 for more information.

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(A0,3,12,12a,12b;B1,8;C0,3,12,12a,12b)

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JUNE 15, 1983

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NEWS PEOPLE: For further information  
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ANTI-VIRAL DRUG CURBS SHINGLES-RELATED ILLS  
IN TRANSPLANT AND CANCER PATIENTS

(EMBARGOED FOR RELEASE UNTIL 5:30 P.M. CDT, JUNE 15)

Medical scientists announced Thursday (June 16) that a new anti-viral drug called acyclovir effectively stops the spread of shingles in patients with immune system malfunction. Shingles is a sometimes life-threatening condition common in cancer and transplant patients.

In a summary report based on findings at 20 medical centers in the United States and Canada, scientists reported in the current issue of the New England Journal of Medicine that: "Acyclovir prevented progressive ... development of (acute herpes) zoster in a significant number of patients and was also associated with fewer treatment failures."

In most people an attack of acute herpes zoster -- commonly known as shingles -- causes a rash and intense pain. But in one group of patients -- those who are immunocompromised -- a shingles attack can lead to damage to internal organs such as the liver, lungs and brain. In some cases the virus is life threatening.

In July 1982 a University of Minnesota research group reported in the English medical journal Lancet that intravenous acyclovir accelerates blister healing and pain resolution in patients with normal immune systems.

Dr. Henry Balfour, the head of University of Minnesota Hospitals' clinical virology service and senior investigator of both reports, said shingles poses a significant problem in the treatment of cancer patients, as well as those who have received an organ transplant.

"We estimate that 50 percent of patients with special kinds of cancers, such as Hodgkin's disease, will suffer a shingles attack within a few months to several years following their diagnosis," Balfour said.

(MORE)

"The virus usually results in prolonged hospitalization, but as many as 5 to 10 percent of the patients will be affected by deep organ involvement -- the liver, lungs and brain. In some cases, the disease can be life threatening," he said.

A smaller percentage of organ transplant patients -- probably 10 to 15 percent -- experience shingles, Balfour said.

The multi-center study enrolled a total of 94 patients with approximately half receiving intravenous injections of acyclovir over a period of one week. The remainder of the patients were given a placebo.

"The significance of our findings," Balfour said, "is that the patients who received acyclovir did not suffer any deep organ involvement as a result of the shingles and the virus healed sooner than in the control group."

Although the scientists found that the drug was more effective when treatment was initiated during the first three days after the onset of the shingles rash, Balfour said the anti-viral drug was also helpful in stopping the virus spread in patients enrolled during the later stages of shingles.

"This finding is important for the physician and patient to know because they may feel that it is futile to treat shingles in the later stages of the disease," Balfour said.

Cessation of pain also occurred faster in the acyclovir patients when compared with the control group, according to the study.

Scientists say they still must determine if intravenous injections of acyclovir help patients suffering post-herpetic neuralgia, the long-term pain that follows the shingles attack.

"We conclude that one week of intravenous acyclovir therapy may not be long enough to provide resolution of pain and to prevent post-herpetic neuralgia in some patients," the study said. "Further studies are needed to explore other treatment regimens, perhaps including intravenous acyclovir for several days followed by a course of oral acyclovir."

University of Minnesota Hospitals and several other medical centers are

(MORE)

DRUG

-3-

exploring the effectiveness of oral doses of acyclovir in a controlled double-blind study. Approximately 200 patients, ages 18 and over, will be enrolled in the continuing study during the next two to three years. Participants in the study will have to have had the shingles rash for no more than three days. They will receive the drug as outpatients for 10 days.

"I believe anti-viral drug therapy is effective," Balfour concluded. "Now we have to learn specifically how to use them: how frequently, the specific dosages and over what period of time."

-UNS-

(A0,23,24;B1,4;C0,23,2,4;D0,23,24;E0,23,24)

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JUNE 15, 1983

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NEWS PEOPLE: For further information  
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ASTRONOMY LECTURE TO FEATURE  
NATIONAL COMET EXPERT

(FOR IMMEDIATE RELEASE)

Comets -- messengers from the outer edge and early days of the solar system -- will be the subject of a free public lecture at 8:30 p.m. June 20 in the Radisson St. Paul's East Ballroom.

The speaker, Fred Whipple, astronomer at Harvard University and the Smithsonian Astrophysical Observatory, is a nationally known comet expert who is coming to the Twin Cities for the national meeting of the American Astronomical Society, sponsored by the University of Minnesota astronomy department.

In his talk "The Geology of the Comet Nucleus," Whipple will discuss the ways astronomers plot the paths of comets. One method involves looking for the small jets of gas that create local rocket thrusts in different directions as part of the comet's gas begins to evaporate once the comet comes within about 100 million miles of the sun. These thrusts change the direction and speed of the comet head's rotation, explained Ed Ney, a University of Minnesota astrophysicist who is also an expert on comets.

Whipple is also expected to discuss the next small comet due to approach Earth's orbit in June, Halley's comet and the newly discovered comet IRAS-Araki-Alcock.

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JUNE 17, 1983

UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
June 22-28

**Wed., June 22--Goldstein Gallery:** "Design Faculty Exhibition": Richard Abell; Harold Alexander; Marian-Ortloff Bagley; Timothy Blade; Charlene Burningham; Eugene Larkin; Joseph Ordos; Roger Peterson; Mary Stieglitz-Witte. 241 McNeal Hall. 8 a.m.-4 p.m. Mon-Fri. Through June 24. Free.

**Wed., June 22--Paul Whitney Larson Gallery:** "Variations on a Theme," photographs by Steve Kenow; renderings by Marti Kenow. St. Paul Student Center. 9 a.m.-6 p.m. Mon., Tues. and Thurs.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through July 15. Free.

**Wed., June 22--University Art Museum:** "Music and the Pursuit of Happiness in the Eighteenth Century" and "Works from Kuopio, Finland," through June 26. "Images of the American Worker 1930-1940" and "Undergraduate Honors Exhibition," through July 10. Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Free.

**Wed., June 22--Concert:** George Avaloz Sextet, jazz with a Latin flavor. Northrop Mall. Noon. Free.

**Wed., June 22--Film:** "Dark Star." Theater-lecture hall, Coffman Union. 7:30 p.m. \$1.

**Wed., June 22--University Film Society:** "Smithereens" (U.S.A., 1982). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. Information: 373-5397.

**Wed., June 22--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Wed., June 22--Third Century Poetry and Prose series:** "Light Chasing the Dark." New and traditional stories told by Loren Niemi and Elaine Wynne. Fireplace room, West Bank Union. 8 p.m. Free.

**Thurs., June 23--Concert:** Butch Thompson, performing music of Eubie Blake and Scott Joplin. Northrop mall. Noon. Free.

**Thurs., June 23--University Film Society:** "Say Amen, Somebody." Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Thurs., June 23--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

**Fri., June 24--University Film Society:** "Say Amen, Somebody." Bell Museum of Natural History aud. 5:30, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

**Fri., June 24--Bijou film:** Modern Times" (Charles Chaplin, 1936). Program hall, West Bank Union. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

**Fri., June 24--Centennial Showboat:** "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

(OVER)



Sat., June 25--University Film Society: "Say Amen, Somebody." Bell Museum of Natural History aud. 5:30, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Sat., June 25--Centennial Showboat: "Florodora." 7 and 10 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

Sat., June 25--Bijou film: "Modern Times" (Charles Chaplin, 1936). Program hall, West Bank Union. 8 p.m. \$1.50, \$1 for U of M students with current fee statements.

Sun., June 26--Centennial Showboat: "Florodora." 2 and 7 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

Sun., June 26--University Film Society: "Say Amen, Somebody." Bell Museum of Natural History aud. 5:30, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Sun., June 26--Concert: Minneapolis Chamber Symphony. Willey Hall Aud. 8 p.m. Information: 377-4021.

Mon., June 27--Concert: Richard Zgodava, piano music of Louis Moreau Gottschalk and George Gershwin. Northrop mall. Noon. Free.

Mon., June 27--University Film Society: "Say Amen, Somebody." Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Tues., June 28--Concert: Vitamin Q, rock and roll. St. Paul student center lawn. Noon. Free.

Tues., June 28--University Film Society: "Say Amen, Somebody." Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Tues., June 28--Centennial Showboat: "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

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June 20, 1983

MTR  
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9/10/83

(EMBARGOED FOR RELEASE UNTIL NOON JUNE 21)

U OF M SCIENTISTS MAY KNOW HOW  
GAS JETS OF STARS, GALAXIES FORM

By Deane Morrison  
University News Service

Scientists at the University of Minnesota have devised theories to explain how some stars and galaxies emit gaseous material in highly focused jets up to a million light-years long.

Two research teams presented their findings Tuesday and Wednesday (June 21 and 22) at the American Astronomical Society conference in St. Paul, Minn. Seung-Urn Choe and Vincent Icke have devised a model to explain how jets could form from stars; B. Kevin Edgar and Lawrence Rudnick have studied jets emitted by the core region of a distant galaxy. Before the conference, they discussed their findings.

"For years astronomers have noticed objects that consist of three parts: a small central high-energy core between two large diffuse lobes, which emit large amounts of radio waves and sometimes visible light," said Icke.

"These lobes appear to be separate from the core. The entire structure may be a million light-years across; in this case, the core is probably the nucleus of a galaxy, with a mass equivalent to billions of stars. If the structure is only a few light-years across, the central object is probably a single star.

"In all cases, the lobes contain high amounts of energy. The question is, how did the energy get there? And the answer is, by jets of high-energy gas particles streaming from the core," he said.

The problem is explaining how narrow, focused jets of gaseous material can emanate from stars or galactic nuclei, which are spherical and emit gases and radiation in all directions.

In one theory, proposed by their colleagues Roger Blandford and Martin Rees, a

(MORE)

black hole is surrounded by a slowly rotating cloud of gas, Choe and Icke explained. Rotation causes the cloud to become somewhat thin and flattened. Gas particles emitted from the neighborhood of the black hole are deflected by particles in the cloud, and escape mostly near the polar regions, where resistance is least. At some distance from the center, the jet material broadens out into lobes and can be detected by optical or radio telescopes.

The work of Choe and Icke concerns a case in which a similar cloud surrounding a bright star is rotating rapidly and has condensed into a thin disk. Such bright stars are often observed to emit a stream of gas particles: a stellar "wind." In this case, stellar gas apparently could escape in most directions without encountering the disk and being focused into jets.

To explain how jets could form in such a system, the scientists propose that heat radiating from the star causes gas from the disk to evaporate. Gas evaporating in the direction of the star would encounter the stellar wind, and deflect it back toward the polar regions of the star. This would cause a funneling of the stellar wind along the polar axis, forming two jets.

The researchers believe their model may explain the origins of two classes of entities, Herbig-Haro objects and bipolar nebulas.

Herbig-Haro objects are luminous bodies with trailing edges often seen in two clusters on opposite sides of a star. They could be formed in stellar jets by shear forces and turbulence caused when the stellar wind and evaporating disk gas travel the same path at different speeds.

Bipolar nebulas appear as two bright, diffuse patches separated by a narrow dark gap. They may be the outer lobes of stellar jets, with the source star obscured within the dark gap. In one case, the two bright sections of a bipolar nebula were found to be moving away from each other, which is consistent with this theory.

Choe and Icke say their model can be applied to any potential source of jets; single stars, double stars or galactic nuclei surrounded by gaseous disks could

(MORE)

produce jets by this mechanism.

Edgar and Rudnick have studied a galaxy that appears to emit discontinuous jets of gas. Radio wave patterns received from the lobes -- where the jet may be "dumping its power" -- indicated separate patches of material along the path of ejection, Rudnick said. This could be caused by a jet that operates intermittently.

"The question," said Rudnick, "is whether these jets are actually turning on and off, or whether some part of the stream is masked, perhaps by being lit up only in certain places.

"We can't do time-lapse photography to see movement in the lobe material -- the galaxy is so huge and remote, we'd have to wait 10 million years to see changes in the radio wave maps due to motion."

But analysis of the magnetic field of the lobe material and the various frequencies of radio waves it emits lead Rudnick to believe that these jets indeed operate in spurts.

"The source of this jet, in the core of the galaxy, is probably fueled by a dense, supermassive object -- perhaps a black hole with a mass equal to a billion suns," he said.

"The theory is that nothing escapes from a black hole. Therefore, how is the jet material funneled and ejected without being sucked in? That's part of what the work of Icke, Choe and his adviser, Tom Jones, will tell us.

"The core itself is too small and distant to be observed directly. It is likely only a few light-years across, yet it spews jets whose total span could be a million light-years. The speed of ejection is anywhere from 2,000 to 20,000 miles per second."

Although jetting has been observed near several galaxies, no one knows if our own galaxy, the Milky Way, exhibits the phenomenon.

As Vincent Icke put it: "There's just too much stuff between us and the core of the galaxy to see what's going on."

Feature story from the  
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June 20, 1983

(FOR RELEASE NOON JUNE 20)

STRANGE COSMIC RAY BURSTS DETECTED IN  
END-OF-THE-UNIVERSE EXPERIMENT

By Jeanne K. Hanson  
University News Service

"All composite things decay. Strive diligently."

---Buddha

Strange bursts of cosmic rays -- the fragments of the stars that reach our upper atmosphere at essentially the speed of light, then shatter into a silent cascade of sub-atomic particles -- have been detected at an underground experiment site in Minnesota run by a team of physicists from the University of Minnesota and the Argonne National Laboratory.

The immense energy and irregular pattern behind these particles is leading scientists to question current knowledge of cosmic rays in the galaxy and beyond -- and may even lead to a new kind of astronomy, according to University of Minnesota physicist Marvin Marshak. He and colleague John Bartelt presented the findings of the team to the national meeting of the American Astronomical Society in St. Paul, Minn., Monday (June 20).

Some 800,000 of these particles -- heavy electrons called muons -- have been detected since 1981, with about 5,000 of them in instantaneous bursts of two or more particles at a time. Some of the bursts seem to be in groups that last about an hour, Marshak said.

The bursts show up as faint parallel lines, much like a gentle spring rain shower, on the research team's 31-ton detector, buried in a 2,000-foot mine shaft to shield it from extraneous radiation. The detector is designed to search for the decay of protons, another sub-atomic particle, a signal that the universe will ultimately end. While waiting for confirmation of this event, scientists are using

(MORE)

the detector in Tower-Soudan State Park in northeastern Minnesota as a "telescope in the ground" and have serendipitously turned up a few neutrinos as well as the strange muon bursts, Marshak said.

Perhaps even more curious is that some 35 groups of bursts seem to be coming mostly from two directions -- the area of the constellation Cygnus and the north galactic pole, Marshak said in an interview before the presentation. Although the team is not now willing to speculate on why these two locations are "enhanced areas," they are known to be astronomically significant.

Cygnus lies in an area of sky crowded with galaxies called the Virgo supercluster, toward which our solar system is moving. It also seems to contain a massive black hole called Cygnus X-1. The Milky Way galaxy's magnetic lines of force -- the arrangement of its magnetic field into vast, looping lines -- also converge in this direction. The north galactic pole is known to be the closest entrance and exit to the galaxy.

The team is now concentrating on three possible reasons for the odd cosmic ray phenomenon, all of which challenge current knowledge in astronomy. "In fact, nobody seriously looked for these bursts before because they never thought they could exist," Marshak said.

The first possibility is that the muon bursts come from cosmic rays with much vaster original energies than had been thought possible before. Though all cosmic rays are slowed by Earth's atmosphere and shattered into muons and other particles before reaching the ground -- in this case, deeper down to the mine detector -- the original particles look as though they had to hit the upper edge of the atmosphere at energies of greater than 100 quadrillion (10 to the 17th power) electron volts, Marshak said.

Such tremendous energies -- a million trillion times that of particles of light -- are rarely seen in ordinary cosmic rays and never in the largest particle accelerators on Earth. They are equal to -- but very different from -- the X-ray radiation from pulsars, the most energetic stars in the universe, and energies that

(MORE)

may be created at the edges of black holes as they swallow stars.

A second possible explanation for the muon bursts is that they are reaching Earth through holes or bubbles in the galaxy's magnetic field. If such areas exist, cosmic rays could come through them unscrambled, instead of being swirled into an "isotropic (uniform) mush" by the galaxy's magnetic field, the situation heretofore thought to always occur, Marshak said.

"If we are receiving these high energy cosmic rays 'straight,' instead of them reeling toward us like drunks from unknown lamp posts, we could discover where they came from and study the sources, opening up a new branch of astronomy," Marshak said.

The third possibility is that the original cosmic ray particles are not electrically charged at all, though still vastly energetic. Then, like light -- also uncharged -- they would move quite straight, with or without holes or bubbles in the galaxy's magnetic field, Marshak said.

The puzzle then comes back to the place of origin of the strange bursts. No known source has been confirmed, though there is one possible object in one of the directions. The original cosmic material from which the muon fragments came is possibly iron, Marshak said, which doesn't help -- it is a very common element in the universe, forged within billions of dying stars.

The next step toward the mystery must be taken elsewhere. Beginning soon, the Minnesota team will cooperate with other proton detector teams, searching overlapping areas of sky to isolate the bursts further. Still later, a small-scale satellite search for the original high-energy cosmic ray particles will be lofted from a future space shuttle. "When the universe is your lab, nothing is easy," Marshak said.

-UNS-

(AO, 4, 4a; B1, 12; CO, 4, 4a;  
DO, 4, 4a; EO, 1, 4, 4a; I4)

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Feature story from the  
University of Minnesota  
News Service, 6 Morrill Hall  
100 Church St. S.E.  
Minneapolis, Minnesota 55455  
Telephone: (612) 373-7517  
June 20, 1983

(EMBARGOED FOR RELEASE UNTIL NOON JUNE 22)

ASTRONOMY IS AT EDGE OF "STELLAR RENAISSANCE"  
WITH SUPERMASSIVE STARS

By Jeanne K. Hanson  
University News Service

Astronomy is at the edge of a "stellar renaissance," in which the most massive stars in the universe -- blazing bright blue and a million to 100 million times brighter than our sun -- are becoming keys to understanding the laws of physics under extraordinary conditions.

Once thought to be too large to exist, only one or two dozen of these very massive stars have been discovered so far, mostly by accident. At 60 to 3,000 times the mass of the sun, they are not only powerful enough to be seen from very far away, but also are supported against gravity by the pressure of light itself. So they are beginning to turn many astronomers' attention back to looking at the stars, after a decade of concentration on galaxies, X-ray sources, quasars and other exotic astronomical phenomena.

Observing them is an echo of the experience Galileo must have had beginning in 1610, when he trained the first real telescope on the skies and became the first to observe astronomical marvels: four small moons circling Jupiter, sunspots uncurling on the sun, the phases of Venus, the moon's craters and the Milky Way, unblurred, composed of stars. But it is a technologically sophisticated echo of this first telescope experience, since the giant stars are observed best from a telescope aloft the International Ultraviolet Explorer (IUE) satellite -- which beams the information down to Earth -- as well as in ground-based telescopic studies of their optical spectra or astro-chemical emission lines.

In the future, the best way to see these stars -- and to discover more of them -- will be from the space telescope, now set for launch in 1986. "By then, the very

(MORE)



massive and supermassive stars should be an extremely hot topic," said Kris Davidson, an astronomer at the University of Minnesota and an expert on these stars. He and a dozen or so colleagues, all researching the massive stars, presented and discussed their findings at the national meeting of the American Astronomical Society in St. Paul, Minn., Wednesday (June 22).

These stars are extremely rare, astronomers agree. Perhaps one star in a billion is this massive, Davidson estimated in an interview before the presentations.

To understand how they become this large takes one to the edge of physics. It is not known how an emerging star could collect this much mass -- from the gas and dust cloud that is its cocoon -- without the radiation pressure from within expelling the additional material like a balloon splitting its skin.

It is possible that the clouds from which these stars form contain less dust than other star clouds, according to research done by Blair Savage and Joseph Cassinelli at the University of Wisconsin. Or, three or four stars, forming together, might develop irregular orbits, then collapse together very quickly. This particular type of star cannibalism, which has never been observed, is "a desperate way of imagining how these stars could form, though," Davidson said. It also does not explain why one of the stars studied so far is found near six others, nearly as large.

The way these stars hold themselves together once they are formed is also mysterious. Until recently, it was thought that they would shake themselves to pieces, as the radiation that supports them overcame gravity to blow the star's outer edges away. Now, astronomers conjecture, the shaking may be moderated by friction within the star's gases caused by massive shock waves.

The most massive stars do exhale mass periodically -- some quite violently -- Davidson said. And of all the stars in the universe, they have the shortest lifetimes, only about 3 million years, as opposed to the 10-billion-year life expectancy of the sun. They will all end in supernova explosions, though perhaps a

(MORE)

different kind than has ever been observed before.

The star's erratic evolution toward death is now better understood, since a theory of the chemical mixing of star material under radiation pressure from its core was advanced by André Maeder, a Swiss astrophysicist. Though turbulence is still one of the least understood forces in physics, Maeder's theories accurately predicted the surface chemistry later observed on at least one massive star, showing that the ordinary laws of physics extend to extraordinary situations, Davidson said.

This star, Eta Carinae, is one of the most famous very massive stars. Visible to the naked eye from the Southern Hemisphere even though it is 9,000 light-years away (54,000 trillion miles), it is 5 million times more luminous than the sun and about 200 times more massive. Some 150 years ago it exploded once, becoming the second brightest star in the sky visible from Earth. Now it is brightening again and could become a supernova at any time, as scientists announced last year.

Possibly the most massive of all known stars is R136a. Able to light up its entire nebula hundreds of light-years wide, it may be 3,000 times more massive than the sun and 100 million times brighter, according to the research of Joseph Cassinelli, the Wisconsin astronomer. With temperatures of 60,000 to 75,000 degrees, it is unimaginably hot.

This star, discovered earlier in the Large Magellanic Cloud -- a galaxy relatively close to our own Milky Way at 170,000 light-years away -- is now the center of a controversy. Astronomers like Davidson think that this object may actually be two or three stars, the largest one "only" 10 million to 30 million times brighter than the sun. Yu-Hua Chu and Blair Savage of the University of Wisconsin presented the latest data on R136a at the conference.

Other giant stars include one in Cygnus, several variable stars used to estimate the size and age of the universe by Roberta Humphreys, University of Minnesota astronomer, and others, and several new candidates in the galaxy M33, now under study by Philip Massey and John Hutchings at the Dominion Astrophysical Observatory in Victoria, B.C. The latter group of stars may be intermediate in size between Eta Carinae and R136a.

All these stars are "wonderfully extreme objects," Davidson said. And, as Francis Bacon, a Renaissance scientist said, "There is no excellent beauty that hath not some strangeness in the proportion."

-UNS-

(AO, 4, 4a; B1, 12; CO, 4, 4a; DO, 4, 4a; EO, 1, 4, 4a; I4)

UNIVERSITY OF MINNESOTA  
NEWS SERVICE, 6 MORRILL HALL  
100 CHURCH ST. S.E.  
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JUNE 20, 1983

NEWS PEOPLE: For further information  
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SAVING CONFINEMENT FOR CRIMINALS  
IS BEST TREND IN JUVENILE JUSTICE,  
RESEARCHER TELLS SUBCOMMITTEE

(FOR RELEASE ON OR AFTER JUNE 21)

Removing status offenders and abused and abandoned youths from correctional facilities has been one of the most successful juvenile justice policy thrusts of the 1970s, a former Carter administration official told a Congressional subcommittee in Washington Tuesday (June 21).

"There has been a substantial decline in the number and rate of female admissions to detention centers and training schools," Ira M. Schwartz told the Senate juvenile justice subcommittee. Schwartz is a senior fellow at the University of Minnesota Hubert H. Humphrey Institute of Public Affairs. "Because females made up the vast majority of the status offenders and non-offenders (abused or abandoned children) admitted to secure facilities, the decline in female admissions provides additional documentation for what has been achieved."

Since he left his post as administrator of the Office of Juvenile Justice and Delinquency Prevention in 1981, Schwartz has been involved in a major national project at the Humphrey Institute called "Rethinking Juvenile Justice." Funded by the Northwest Area Foundation, the project was designed to assess the impact of de-institutionalization policies in juvenile justice.

While he emphasized the success of the decline in the number of status offenders -- juveniles classified as delinquent solely for behavior, such as smoking or truancy, that isn't considered criminal for an adult -- admitted to detention centers and training schools, Schwartz said the overall decline in institutionalization rates has been disappointing. The detention admission rates declined 12.3 percent between 1974 and 1979, he said. But, he pointed out, more than 40 percent of all youth detained in the early 1970s were status offenders and

(MORE)

non-offenders.

"Diversion and alternative programs have mushroomed while detention admissions rates declined only slightly and training schools admission rates not at all," Schwartz told the subcommittee. "Our research found a significant correlation between the availability of beds and the admissions rates to detention centers and training schools."

Schwartz said his research showed that admissions rates were relatively unaffected by rates of arrests for serious property and violent juvenile crime as well as by rates of teen-age unemployment.

"If detention and training school beds are being used largely for purposes other than public safety, this creates a tremendous and unnecessary expense for taxpayers," Schwartz said. "States and localities should adopt and aggressively pursue policies seeking to limit the use of detention and training school placements, including, in some instances, closing down such facilities."

Schwartz said he is "deeply concerned" about the conditions in the nation's training schools because their budgets during the last decade did not keep pace with inflation. He also said that training schools in many states are experiencing severe overcrowding.

While the de-institutionalization of status offenders and non-offenders has been successful, Schwartz said that Minnesota data suggests that many of those juveniles have been diverted to residential treatment centers for the emotionally disturbed, inpatient psychiatric units in private hospitals and to inpatient chemical dependency programs.

"We have concluded that a hidden or private juvenile control or correctional system has evolved for disruptive or acting-out youth who are no longer processed by public juvenile justice agencies," Schwartz said.

Schwartz said he believes a similar situation exists in other states and that the nature and dimension of this "hidden" system should be a major component of research at the state and federal levels.

Information for Schwartz's study was obtained from the Biennial Census of Children in public and private correctional facilities administered by the U.S. Census Bureau to all known public and private juvenile correctional facilities.

UNIVERSITY OF MINNESOTA  
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JUNE 21, 1983

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NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

U OF M VIDEO EQUIPMENT  
WORTH \$4,000 REPORTED MISSING

(FOR IMMEDIATE RELEASE)

Video equipment worth more than \$4,000 was taken from a locked room on the St. Paul campus of the University of Minnesota last weekend.

A video camera worth \$1,037, two videotape recorders worth a total of \$2,491, and two 14-inch color television sets worth a total of \$953 were discovered missing Monday (June 20) when employees arrived for work at the St. Paul Central Library, 1984 Buford Ave.

There was no sign of forced entry on the doors to the media control room, which was locked when employees arrived for work Monday, according to the campus police report.

-UNS-

(A0,5;B1,18;C0,5)

UNIVERSITY OF MINNESOTA  
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100 CHURCH ST. S.E.  
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JUNE 21, 1983

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NEWS PEOPLE: For further information  
contact JUDITH RAUNIG-GRAHAM, (612) 373-7514

U THEATRE ANNOUNCES SIX PLAYS  
FOR 1983-84 SEASON

(FOR IMMEDIATE RELEASE)

A musical spoof of Agatha Christie mysteries, Shakespeare's "Richard II" and works by George Bernard Shaw and Moliere are among the six plays selected for the 1983-84 season of the University Theatre.

The season, the theater's 53rd at the University of Minnesota, will open in November and continue through May 1984 in the Rarig Center on the west bank of the Minneapolis campus.

The season opener is "Something's Afoot," the Agatha Christie spoof complete with an English mansion and a thunderstorm. It will begin Nov. 4 and run through Nov. 20.

"Translations," a Brian Friel play that explores the English intrusion on Celtic traditions, will be staged Nov. 18 through Dec. 4.

The season's third play is Shaw's "Major Barbara," which opens Jan. 27 and runs through Feb. 12. The play, one of Shaw's best-received, contrasts a munition manufacturer's morality with that of his daughter, a major in the Salvation Army.

Moliere's "Learned Ladies," a fast-moving comedy satirizing pseudo-intellectuals, social climbers and pretentious women, will run Feb. 27 through March 4.

"Richard II," Shakespeare's tale of fallen kings, will open April 20 and run through May 6.

The final play in the season will be Albert Innaurto's "Gemini," an Obie award winner about two Harvard students visiting an Italian classmate. "Gemini" opens May 11 and runs through May 27.

Season tickets are \$31 for the general public and \$26 for students, senior citizens and University of Minnesota faculty and staff.

Information about season tickets may be obtained by calling (612) 373-2337.

-UNS-

(A0,2,2e;B1,13;C0,2,2e)

UNIVERSITY OF MINNESOTA  
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JUNE 24, 1983

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NEWS PEOPLE: For further information  
contact DEANE MORRISON, (612) 373-5193

U OF M'S LOKEN HEADS  
NUCLEAR MEDICINE GROUP

(FOR IMMEDIATE RELEASE)

Dr. Merle K. Loken, director of the division of nuclear medicine at the University of Minnesota Hospitals, was installed as president of the Society of Nuclear Medicine during a meeting of the organization this month in St. Louis.

The society, which has 10,000 members nationwide, includes physicians, scientists and technicians who use radioactive materials in the practice of medicine or in research. In clinical practice, small amounts of radioactive substances are introduced, usually intravenously, into a patient's body. These tracers are especially designed so that they are taken up by specific organs. Special cameras can monitor their distribution in the body, giving doctors a kind of motion picture report on how those organs are functioning. Other procedures include basic research, in which radioactively labeled compounds are used to trace the fate of chemicals in laboratory animals or test-tube experiments.

One of Loken's concerns is government regulation of radioactive substances. In his first act as president he represented the organization before the Environmental Protection Agency at hearings on radioactivity levels permitted in hospital effluent stacks. He opposed the EPA's proposed standards, calling them "so severe as to prevent the practice of nuclear medicine from continuing" and prohibitively costly. He favors instead Nuclear Regulatory Commission regulations already in effect.

He also sees the need for training and recruiting medical students into the field of nuclear medicine. This summer, three medical students are receiving stipends -- two from the society -- to learn research methods and gain an introduction to nuclear medicine at the University of Minnesota. Loken would like to see such programs continued and expanded nationwide.

(MORE)

Loken is also concerned about the high cost of hospitalization and advocates a study that would be designed to ensure that nuclear medicine procedures will be "clinically efficacious."

He holds five degrees, including a Ph.D. in biophysics and an M.D. from the University of Minnesota. His honors include several fellowships in radiology and nuclear medicine and citations from medical organizations in Minnesota, Iowa, Japan, Taiwan and India.

Loken has also been awarded an honorary "M" from the men's athletics department at the University of Minnesota for his service as faculty representative to the Big 10, NCAA and Western Collegiate Hockey Association from 1974 to 1981. He served as a naval officer in World War II and the Korean War.

He succeeds Dr. John Burdine of St. Luke's Episcopal/Texas Children's Hospital in Houston as president of the society.

-UNS-

(A0,12a,24;B1,4;C0,24;D24;E24)



UNIVERSITY OF MINNESOTA  
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JUNE 24, 1983

UNIVERSITY  
NEWS SERVICE  
6/24/83

NEWS PEOPLE: For further information  
contact PAT KASZUBA, (612) 373-7516

MEDICINE LAKE BUSES WILL  
REPLACE MTC AT U OF M JULY 1

(FOR IMMEDIATE RELEASE)

When the maroon and gold Medicine Lake buses roll onto the University of Minnesota Twin Cities campus next Friday (July 1), the main change will be in color. On Thursday, after transporting more than 48 million riders 5.3 million miles during the past 13 years, the familiar red buses of the Metropolitan Transit Commission will operate the university's intra-campus transit service for the last time.

The east bank-west bank service on the Minneapolis campus and service between the Minneapolis and St. Paul campuses will still be known as Route 13, and the long-standing routes and schedules will remain basically unchanged.

Minor changes in letter designations will be explained in posters around campus and in schedules available at information centers in the Minneapolis campus student unions and the St. Paul Student Center. One change involves the name of the University Hospitals-Oak Street parking ramp shuttle, which will be changed from Route 59 to 13-H.

The MTC lost the contract for intra-campus service in March when Medicine Lake submitted a bid \$900,000 lower than the MTC's. The MTC's Route 52 commuter bus service, which is made up of 13 semi-express bus routes between the university and Twin Cities residential areas, will not be affected.

Medicine Lake will provide the intra-campus service with refurbished 1963-66 buses that have been painted maroon and gold.

For more information on the change in service, contact the university's transit office at 373-0374.

-UNS-

(A0;B1;C0)

UNIVERSITY OF MINNESOTA  
NEWS SERVICE, 6 MORRILL HALL  
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MINNEAPOLIS, MINNESOTA 55455  
TELEPHONE: (612) 373-5193  
JUNE 24, 1983

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UNIVERSITY OF MINNESOTA, TWIN CITIES, CULTURAL EVENTS  
June 29-July 5

- Wed., June 29--Paul Whitney Larson Gallery: "Variations on a Theme," photographs by Steve Kenow; renderings by Marti Kenow. St. Paul Student Center. 9 a.m.-6 p.m. Mon., Tues. and Thurs.; 9 a.m.-8 p.m. Wed.; 1-5 p.m. Sun. Through July 15. Free.
- Wed., June 29--University Art Museum: "Images of the American Worker 1930-1940" and "Undergraduate Honors Exhibition." Northrop Aud. 11 a.m.-4 p.m. Mon.-Fri.; 11 a.m.-8 p.m. Thurs.; 2-5 p.m. Sun. Through July 10. Free.
- Wed., June 29--Concert: Minneapolis Chamber Symphony, Jay Fishman conducting. Northrop Mall. Noon. Free.
- Wed., June 29--Film: "Jaws." Theater-lecture hall, Coffman Union. 7:30 p.m. \$1.
- Wed., June 29--University Film Society: "Say Amen, Somebody" (U.S.A.). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. Information: 373-5397.
- Wed., June 29--Centennial Showboat: "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.
- Wed., June 29--Third Century Poetry and Prose series: Publication reading for "Sing Heavenly Muse!" Fireplace room, West Bank Union. 8 p.m. Free.
- Thurs., June 30--Concert: MY-5, new wave. Coffman Union mail. Noon. Free.
- Thurs., June 30--University Film Society: "Say Amen, Somebody" (U.S.A.). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.
- Thurs., June 30--Centennial Showboat: "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.
- Fri., July 1--Ground Floor Gallery: "Taking a Closer Look," high magnification nature photography with a biological perspective, by Bruce Edinger. Bell Museum of Natural History. 9 a.m.-5 p.m. Tues.-Sat.; 1-5 p.m. Sun. Through July 31. Free.
- Fri., July 1--University Film Society: "Say Amen, Somebody" (U.S.A.). Bell Museum of Natural History aud. 5:30, 7:30 and 9:15 p.m. \$3. Information: 373-5397.
- Fri., July 1--Centennial Showboat: "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.
- Sat., July 2--University Film Society: "Say Amen, Somebody" (U.S.A.). Bell Museum of Natural History aud. 5:30, 7:30 and 9:15 p.m. \$3. Information: 373-5397.
- Sat., July 2--Centennial Showboat: "Florodora." 7 and 10 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.
- Sun., July 3--University Film Society: "Say Amen, Somebody" (U.S.A.). Bell Museum of Natural History aud. 5:30, 7:30 and 9:15 p.m. \$3. Information: 373-5397.

(OVER)

Sun., July 3--Centennial Showboat: "Florodora." 7 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

Tues., July 5--Coffman Union Gallery : "Light Impressions," B.F.A. exhibit by Mary Bourman, Gallery 1; "Landscapes as Metaphor," drawings and photographs by Ed Krause, Gallery 2; "Messy Vitality: Turn of the Century Architecture in the 80's," photographs by Brad Daniels, Gallery 3. 10 a.m.-3 p.m. Mon.-Fri.; 10 a.m.-7 p.m. Tues. Through July 27. Free.

Tues., July 5--Concert: Vitamin Q, rock and roll. St. Paul student center lawn. Noon. Free.

Tues., July 5--Concert: The Jugsluggers, bluegrass hits of Bill Monroe. Northrop mall. Noon. Free.

Tues., July 5--University Film Society: "Say Amen, Somebody" (U.S.A.). Bell Museum of Natural History aud. 7:30 and 9:15 p.m. \$3. Information: 373-5397.

Tues., July 5--Centennial Showboat: "Florodora." 8 p.m. \$6, \$5 for students and senior citizens. Information: 373-2337.

-UNS-

(A0;B1;F2)

UNIVERSITY OF MINNESOTA  
NEWS SERVICE, 6 MORRILL HALL  
100 CHURCH ST. S.E.  
MINNEAPOLIS, MINNESOTA 55455  
JUNE 28, 1983

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NEWS PEOPLE: For further information  
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ROERING NAMED TO PILLSBURY'S  
GEROT CHAIR AT U OF M

(FOR IMMEDIATE RELEASE)

Kenneth Roering has been named to the Paul S. Gerot Chair in Marketing at the University of Minnesota School of Management, acting dean Edward Foster announced Tuesday (June 28).

A gift of the Pillsbury Co., the chair was established to honor Paul S. Gerot, who served as Pillsbury's chief executive officer from 1952 to 1967. An academic chair is the most prestigious position a faculty member can attain. Roering was chosen through a national search that lasted approximately two years.

The purpose of the Gerot Chair is to provide leadership to the marketing department's programs of teaching and research in areas of interest to practicing managers. The recipient also will provide leadership to the department in communicating with the business community.

"We are pleased that after an extensive search the university has decided to appoint Dr. Roering to the Gerot Chair," said John M. Stafford, president of Pillsbury's Consumer Food Group. "Dr. Roering's qualifications are ideally suited for the very demanding criteria established for the chair. The chair is an excellent way to assist the university and to honor Paul Gerot, whose contributions have meant so much to the Pillsbury Co."

"I am committed to academic research and teaching programs that attempt to increase the effectiveness and productivity of marketing managers," Roering said. "The Twin Cities business community is, in my estimation, the best place in the country to participate in research and teaching programs that address issues that significantly impact the marketing profession."

Vice president of the American Marketing Association, Roering's chief research

(MORE)

ROERING

-2-

interest in recent years has been consumer marketing. Results of his research have been published in numerous professional journals and books. He also has co-written or co-edited five books including a popular textbook, "Essentials of Consumer Behavior."

Roering has industrial experience in both product- and service-oriented firms and during the past 15 years has been actively involved in consulting and executive development. His local clients include 3M, Graco, First Bank Minneapolis, the Federal Reserve Bank and Honeywell.

-UNS-

(A0, 12, 12a; B1, 7; C0, 12, 12a; D12, 12a; E12, 12a)

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Note to news people: If you would like to go see fledgling falcons at their boxes near Wabasha in very late July (after the late June and early July launch of the project), contact Pat Redig at the Raptor Rehabilitation Clinic at (612) 373-0816. The exact date is not yet known, but once the baby birds are safely established, there will be a day set for photographing the project in action.

-UNS-

(AO,4,30;B1,2,3;CO,4,30;DO,4,30;EO,1,4,30;I4)

(FOR RELEASE ANY TIME)

Feature story from the  
University of Minnesota  
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Minneapolis, Minnesota 55455  
Telephone: (612) 373-7517  
June 28, 1983

ENDANGERED PEREGRINE FALCONS WILL FLY  
AGAIN ALONG THE MISSISSIPPI RIVER

By Jeanne Hanson  
University News Service

It is a small, fierce, graceful bird that begins its life chasing butterflies. Soon it can catch other birds, its prey, on the wing, diving at speeds up to 200 miles per hour in a blur of dappled brown.

Its name means wanderer, and it easily flies dozens of miles from its cliffside nest to find food, and occasionally flies hundreds of miles out of its way to chase sea birds while migrating from the Arctic to South America. It has lived on every continent but Antarctica.

"The peregrine falcon is simply the most elegant flying bird that has ever evolved. The world would be poorer without these birds nesting on the cliffs," said Harrison Tordoff, director of the Bell Museum of Natural History at the University of Minnesota. Along with the Raptor Rehabilitation Clinic at the university, the Nature Conservancy, the Minnesota Department of Natural Resources and the U.S. Fish and Wildlife Service, the Bell Museum is now re-introducing the peregrine falcon -- once almost extinct and still on the endangered species list -- to Minnesota.

Beginning Thursday (June 30) through mid-July, the group plans to release about 15 birds. Another 15 or so will be released each year for the next five years to establish a population that can sustain itself. For this year's release, they have chosen the Mississippi River cliffs near Wabasha, Minn., where 10 to 15 hatchlings from a breeding center at the University of Saskatchewan will be carefully placed.

The team is optimistic. Of last summer's five preliminary birds, three are still alive, they estimate.

Peregrines are beginning to ride high on the wings of an improving environment. Since DDT was banned in 1972, the falcons have at least had a fighting chance.

(MORE)

"They're more sensitive to DDT than any other bird," Tordoff said, adding that the falcons' position high on the food chain means they consume a lot of the pesticide.

Currently used pesticides seem to be less dangerous, he added, since they persist in the environment for much shorter periods. However, high concentrations can be lethal; peregrines that have eaten pigeons deliberately poisoned with pesticide have died.

Across this country and in Canada, the peregrine population is slowly growing, with help from human friends. Since 1974, nearly 1,000 have been released, with probably about 200 still alive, Tordoff said. On the East Coast, at least seven pairs are now nesting, including two on bridges in New York City. Cornell University has raised most of the peregrines for the East Coast re-introductions and the University of Saskatchewan is supplying the birds for Minnesota and Canada; several other centers are involved elsewhere.

In Canada and Western Europe, the birds are doing even better with "more peregrines in Britain now than at any time in human history," Tordoff said.

Re-introducing peregrine falcons is not just a matter of flinging a willing bird at the sky along a river. The birds, which are very hard and very expensive to breed in captivity, must be transported from Canada to their future home area at 4 to 5 weeks old. They are then set up in hack boxes, plywood cages with food troughs, on the top of high wooden platforms near the river cliffs where they are to live. They will come to think of this general area as their home and will return to it after migration.

Kept closed for the first week, the boxes are then opened so the birds can gradually practice flying and hunting nearby. By the age of 6 to 8 weeks, the falcons can catch and eat birds as large as themselves, such as ducks and pigeons, but they prefer smaller robin- to crow-sized birds. At that point, the birds stop visiting the boxes. And, by their third year of life, if all is well, they will lay their eggs on sheer, towering cliffs and rock ledges, beginning a new wild generation, Tordoff said.

(MORE)



No attempt will be made to outfit the birds with radio collars to keep track of them, he added. It is too expensive and even the tiniest transmitters are heavy for these small birds, which weigh 1 1/2 to 2 pounds. Wounded birds, if found, will be treated at the Raptor Rehabilitation Clinic on the university's St. Paul campus, which already treats about 400 birds of prey each year.

The spirit and dash of the peregrine falcon has been appreciated since the Middle Ages when, before the use of guns, tamed falcons were carried to the hunt on the wrist of falconers. Dogs flushed out small wild birds, which the falcons then retrieved for the hunters.

"It will be nice to have them back," Tordoff said.

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(AO,4,30;B1,2,3;CO,4,30;DO,4,30;EO,1,4,30;I4)