

# MIZZOU

W E E K L Y

University of Missouri-Columbia / Nov. 17, 1994

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## New hiring practices at MU

*Positions will not be posted or filled automatically, chancellor says.*

Effective immediately, all open faculty and staff positions will be examined for relevance to institutional priorities before they are filled, Chancellor Charles Kiesler announced last week.

The new policy became effective Nov. 9.

"It is important that we view the hiring process as an integral part of our strategic planning," the chancellor said. "No positions should be automatically posted or filled in a given department simply because they have come open. As part of our planning and resource allocation process, each position should be evaluated carefully in terms of our institutional priorities and the question asked: 'Are we better off as a University if that position is filled in that particular area or department, or should it be allocated in a different way?'"

Approximately 50 to 75 faculty positions become available each year, Kiesler said. According to Roger Jett of MU Human Resource Services, 196 full-time, permanent staff positions were open as of Nov. 11.

Requests to fill faculty positions should be directed through normal channels to Kiesler's office through Chief of Staff Brady Deaton. When MU's new provost is on board,

he or she will be responsible for final review.

In the case of all staff positions, senior division heads (chancellor's staff) will have final authority to approve any hiring, as part of the officers' individual strategic plans. In the academic divisions, that authority will rest with Deaton pending the new provost's arrival.

Kiesler said this is the same process that has been followed in the past, but decisions will be based on strategic planning and resource allocation.

The chancellor said the new approach to hiring is partly a result of Amendment 7 planning.

"We spent hundreds of hours planning to deal with the massive cuts passage of

Amendment 7 would have required. In one way, this was an instructive process and I expect we will use some of the information and thinking it generated to inform our approach to the future."

He said University administrators recognize and remain sensitive to the sentiment that brought Amendment 7 to the ballot.

"The public rightfully expects accountability and we are determined to demonstrate, on a continuing basis, that we are worthy of the public trust," he said.



## Guppy love

*What do Trinidadian guppies have in common with fifth-grade females? Read on.*

Whom do females usually choose for mates? According to MU assistant biology professor Lee Dugatkin, for the average female Trinidadian guppy, it's that guy guppy her girlfriend likes.

Dugatkin's research provides valuable information about female mate copying. It also takes him back to his grade-school days when he saw a similar phenomenon at work within his peer group.

"I think about when I was in the fifth-grade," he said. A girl started liking a guy and all of a sudden other girls became interested in that guy."

Dugatkin's research has brought him numerous grants and fellowships, the most recent being the prestigious Outstanding New Investigator Award from the Animal Behavior Society, presented for the first time for significant contributions to the advancement of the study of animal behavior and evolution. Recently, Dugatkin also received a two-year research grant worth \$85,000 from the National Science Foundation. Only about 10 percent of those who apply receive the grant.

By studying female guppy mate choice, Dugatkin hopes to discover how copying may override an innate choice on the female's

part. Normally, female guppies are innately attracted to male color patterns, but Dugatkin's research suggests social factors also are involved.

He placed a female guppy in a clear cylinder in an aquarium that had males in separate chambers on either end. When another female was placed in the aquarium near one of the male guppies, it appeared to the female in the cylinder that her female counterpart had made her choice. Once the enclosed female was released, she was more likely to choose the male she had seen with the other female.

"This research addressed the relatively unanswered questions regarding the relationship between genetic and cultural phenomena," Dugatkin said.

Dugatkin has published 42 articles in scholarly journals including *Animal Behavior* and *Behavioral Ecology and Sociobiology*. After earning his bachelor's and master's degrees in biology at the State University of New York in Albany, Dugatkin received his Ph.D. in biology at the State University of New York in Binghamton. He conducted postdoctoral work at the University of Kentucky. He joined the MU faculty in July 1994.

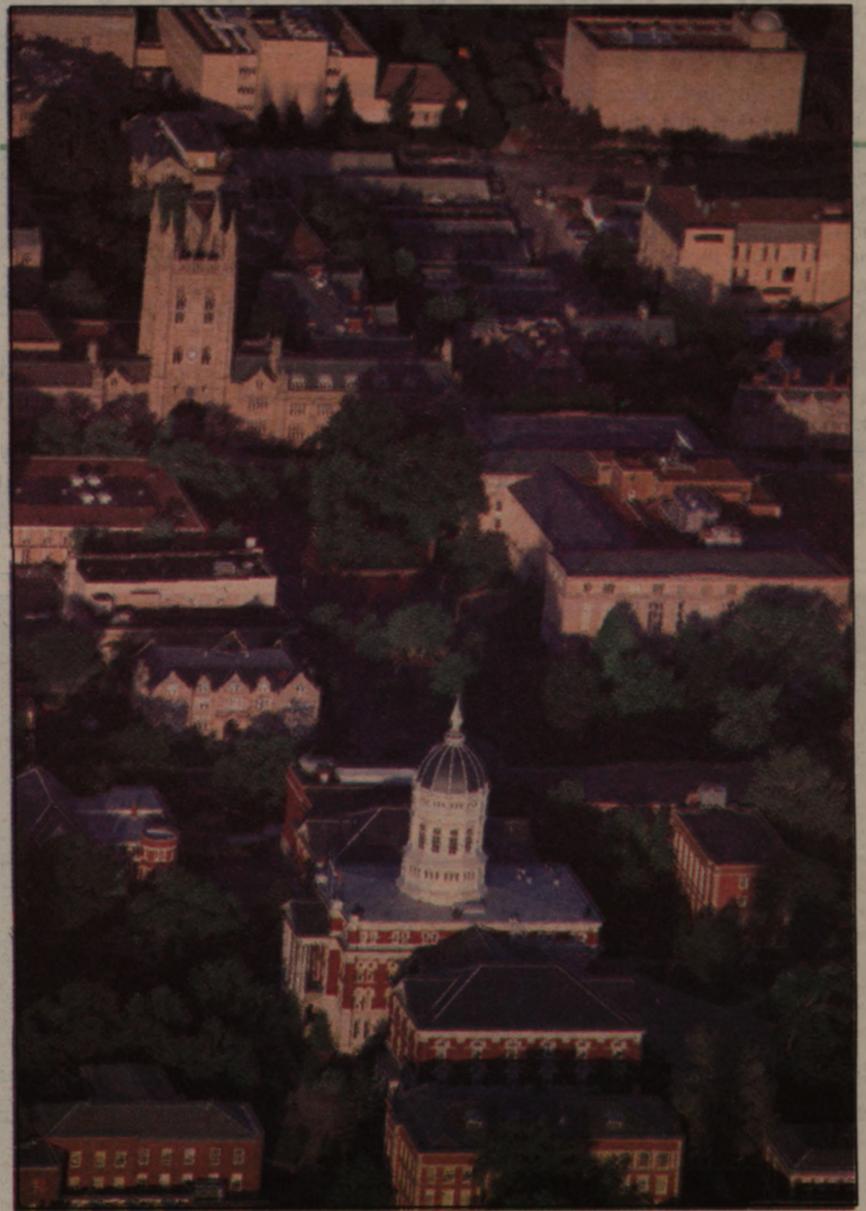


Photo by Robert Llewellyn

## Perfect for the holidays

Want an office overlooking the Quad? Don't have one? Then here's something for you — a 1995 calendar full of full-color shots of Francis Quadrangle and historic scenes from campus archives. Assembled in recognition of the centennial of Jesse Hall and Francis Quadrangle, this calendar makes a great holiday gift.

To get one, send in the order form in this issue of *Mizzou Weekly*, call 882-7357 and order by phone, or buy one at the University Bookstore. The cost is \$7.99. Credit for the calendar idea goes to political science Professor Robin Remington.

The Office of Publications and Alumni Communication also is offering full-color, aerial photos of the MU campus, taken in May by Virginia photographer Robert Llewellyn.

Slide showings of the three to five images available will be held from 11 a.m. to 1 p.m. on Monday, Nov. 21, and again from 3 to 5 p.m. on Tuesday, Nov. 22 in Room 407 of Reynolds Alumni Center. Prints will be on view and available for sale from 8 a.m. to noon and from 1 p.m. to 5 p.m., in 407 Reynolds, Nov. 21 through Dec. 5. All orders placed by Dec. 5 will be delivered in time for the holidays.

The Publications Office will accept IDOs for departmental orders and checks from individuals.

**WANT A CHANGE? CHECK OUT MU'S CAREER CENTER.**

The Community Career Services program offers individual career counseling and access to a wide array of resources within the Career Center, 100 Noyes Building. Services include exploring career options, coping with work-related stress, job dissatisfaction and much more. Program hours are from noon to 5 p.m., Monday through Friday with extended hours until 9 p.m. on Thursdays. Two counseling options are available for \$30 or \$60.

For more information, call Joyce Halverson or Don Doerr at 882-5414.

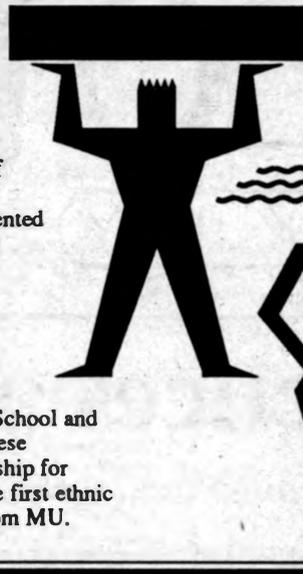
**PROSPECTIVE MINORITY STUDENTS ON CAMPUS**

The Graduate School's Annual Campus Visitation Program brings a group of prospective minority graduate students to the Columbia campus this week to get a "taste" of MU and its graduate programs. Students are invited largely on the basis of academic performance.

The 51 students who participated last year represented 34 institutions in the United States, including several Missouri and regional institutions. A similar group is expected for this year's event, Nov. 17-20.

The visitors will spend two days participating in departmental interviews and information forums, touring the campus and city and meeting current MU graduate students, faculty and staff.

The visitation program also allows the Graduate School and graduate departments the opportunity to interview these prospects for the chancellor's Gus T. Ridgel Fellowship for Minority Americans. The fellowship is named for the first ethnic minority group member to earn a graduate degree from MU.



**ART AND ARCHAEOLOGY OPENS NEW EXHIBIT**

The Museum of Art and Archaeology announces the opening of Ways of Looking, an exhibition that brings together for the first time African, Mexican, Indian, Cambodian, Japanese, ancient Greek, European and American works of art. It includes several works loaned to the museum as well as pieces from its permanent collection.

The multicultural exhibition highlights some of the visual and thematic similarities that exist between different cultures and time periods. Three universal themes are examined: the human figure, mother and child, and faces.

Christine C. Neal, exhibition organizer and curator of European and American Art, will lead visitors through the gallery as part of the museum's Midday Gallery Talk program on Wednesday, Nov. 30 at 12:14 p.m. The museum is open to the public on Tuesdays, Wednesdays, Thursdays and Fridays from 9 a.m. to 5 p.m., Thursday evenings from 6-9 p.m., and weekends from noon to 5 p.m.

**Groshong briefs staff council on new hiring plan**

Although Missouri voters cast a resounding no vote Nov. 8 on a state tax and spending lid known as Amendment 7, MU will continue its efforts to focus on institutional priorities. As part of that focus, a new hiring philosophy calls for a careful review of open positions before those jobs are filled (see related story on page 1).

Kee Groshong, vice chancellor for Administrative Services, briefed MU's Staff Advisory Council Nov. 10 on how the current hiring policy will impact staff positions. After individual review of each open position, vice chancellors and division heads who report to Chancellor Charles Kiesler



**Staff Advisory Council**

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have the authority to fill those vacancies. Faculty positions will be reviewed by the chancellor's office.

The top administrators "are at liberty to fill positions they feel need to be filled on the

staff side," Groshong said. "Of course, we always have reviewed all open positions and hire only on the basis of what we need. This is a continuation of what we have tried to do at the staff level all along. Before we make any decision in Administrative Services, for example, we'll look at each position on a case-by-case basis and how it fits with our strategic plan."

Following the election, Groshong said he has authorized filling three or four positions that were put on hold when UM President George Russell announced a hiring freeze Sept. 30. For example, after discussions with the Nuclear Regulatory Agency, MU

agreed to hire an additional radiation safety officer. That position now will be filled.

But Groshong also noted that Amendment 7 raised issues of concern to many Missourians. "We must take those concerns seriously. This is an issue people do have on their minds," he said.

"We need to be sure that as an institution we're moving ahead. Our enrollment trends are very positive. For the past two years we've received good support from the Legislature. I hope we can continue the momentum that we've begun. We're now in a position to move ahead again with the University's programs and priorities."

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**Meet the provost finalists**

Four finalists for the MU provost position have been invited to campus for two days of interviews. Each will be available to answer questions from faculty, staff and students during an open forum at the time listed below. David McDonald, chairman of the campus standing committee for administrative review, says his committee will distribute a referendum ballot to each regular faculty member within the next few weeks, seeking an evaluation of each candidate.

**Forum: 3 p.m., Nov. 29, Room Columns C, Reynolds Alumni Center**

Rodney J. Reed, dean, College of Education and Pennsylvania Professor of Education, Pennsylvania State University, University Park. He received his Ph.D. in educational policy, planning and administration from the University of California, Berkeley. Before arriving at Penn State, Reed was chairman of the faculty of education at UC, Berkeley. He received that institution's 1992 Alumnus of the Year Award from The Black Alumni Club, California Alumni Association. Reed is the author of numerous books, monographs and journal articles, many dealing with issues of multiculturalism.

**Forum: 3 p.m., Dec. 1, Benton/Bingham Ballroom, Memorial Union**

Edward P. Sheridan, dean, College of Arts and Sciences, University of Central Florida. Sheridan received his Ph.D. in clinical psychology from Chicago's Loyola University. He previously served as professor and chairman of the division of psychology at Northwestern University Medical School. He has been awarded a diplomate in health psychology from the American Board of Professional Psychology and he is a fellow in the American Psychological Association and American Orthopsychiatric Association. He is currently chair of the American Psychological Association's Board of Educational Affairs.

**Forum: 3 p.m., Dec. 5, Mark Twain Ballroom, Memorial Union**

Anne H. Hopkins, vice president for arts, sciences and engineering at the University of Minnesota, Minneapolis. She received her Ph.D. in political science from Syracuse University. Prior to that she was vice provost of the University of Tennessee in Knoxville. Hopkins was awarded annual grants of \$260,000 per year from 1986 to 1989 from the Tennessee Department of Education Governor's School for the Sciences. In 1983 she was elected outstanding faculty member by the student government association. Hopkins currently serves on the executive council of the American Political Science Association.

**Forum: 3 p.m., Dec. 7, Stotler Lounge, Memorial Union**

Wallace D. Loh, dean, School of Law, University of Washington. He received a law degree from Yale Law School and a Ph.D. in social psychology from the University of Michigan. He was elected outstanding teacher of the year in 1989 by students of the University of Washington Law School. While dean, he chaired the president's task force on reorganization and restructuring of the University of Washington. According to his resume, the School of Law tripled its enrollment of minority students during his tenure there (from 12 percent to 36 percent) and increased admissions quality to a level where the overall LSAT/GPA median of entering classes is now in the top 10th percentile.

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# Pesticides-in-water scare unfounded, researchers say

Recent media reports that pesticides foul water in the Midwest are unfounded, according to MU researchers and extension specialists.

"Our drinking water is extremely safe, especially in municipalities," says Bob Broz, University Extension water quality specialist. "If there's any concern, it would be with more than one million private wells in Missouri. But even there, studies show minimum problems with pesticides."

'Our drinking water is extremely safe, especially in municipalities. If there's any concern, it would be with more than one million private wells in Missouri. But even there, studies show minimum problems with pesticides.'

— Bob Broz, University Extension water quality specialist

Broz was reacting to media reports that more than 14 million Americans, mostly in the Midwest, routinely drink water from municipal water systems contaminated with agricultural weed killers that cause cancer and birth defects in laboratory animals.

Years of study in Missouri and surrounding states do not support those contentions, says Broz.

"Of the 2,000 public drinking water wells tested in Missouri in 1994, only two contained triazine pesticide levels higher than those allowed by the Environmental Protection Agency," Broz says.

Even then, it's doubtful that the wells would produce a health hazard. For example, the EPA allows only three parts per billion of Atrazine, a chemical weed killer, in drinking water.

"That's an incredibly small amount — equal to three teaspoons of sugar in 1.3 million gallons of coffee," Broz says.

If anyone should be concerned about water quality, Broz added, it's the more than one million Missouri residents who get their water from private wells. Those wells should be tested yearly, he said, especially for bacterial contamination. County health departments offer such a test for \$10. Additional tests for possible pesticide or nitrate contamination would run \$25 to \$50.

"Bacterial contamination is much more of a concern than pesticides," Broz says. "Bacterial contamination can come from several sources, but E.coli bacteria from

human or animal waste creates the biggest health concern."

Recent MU studies show normal, routine cropping practices "operate well within the margins of safety and risk for groundwater," says Scott Killpack, state extension agronomist.

In studies just completed around the 28-mile Goodwater Creek watershed in northern Boone and western Audrain counties, researchers look for nitrate, Atrazine and the active ingredients in the commonly used herbicides Lasso, Dual and Sencor/Lexone.

In three years, the researchers gathered hundreds of samples. Results: all chemicals fall safely below limits set by EPA for groundwater, Killpack reported.

In another study — a 15-year project — Missouri researchers found farmers are using fewer pesticides and safer ones. Since 1978, the amount of insecticides applied to Missouri's grain crops has decreased 60 percent. The amount of herbicides applied has decreased 38 percent.

"Today's pesticides are applied at lower use rates and are less damaging to the environment than pesticides applied 15 years ago," said George Smith, director of MU's Integrated Pest Management Unit.

Broz noted that the Department of Natural Resources requires all public water supplied to be tested four times a year. These water samples are sent to an EPA-certified lab where the water is tested for herbicides (Atrazine, Cyanazine, Simazine, Alachor and Metolachlor).

The tests separate Missouri's water into two main areas, surface water and ground water.

"Surface water samples from reservoirs and rivers may vary with the seasons. That makes it harder to get a representative sample," Broz said. "Ground water systems generally are less vulnerable to seasonal or outside factors and tend to show more consistent results among samples."

"With 75 percent of the 100 surface water public systems tested, only five reservoirs had levels above EPA's standard. No public water systems taking water from rivers had pesticide levels above the EPA standard."

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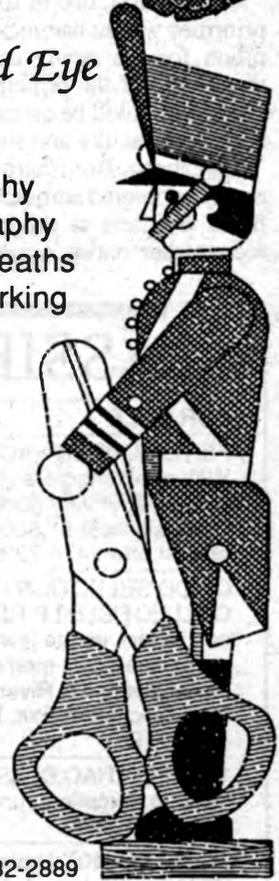
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# Bulgarian ambassador describes birth of a democracy

When the Berlin Wall fell in 1989, former Soviet bloc nations such as Bulgaria were faced with an overwhelming task. One day their governments were in the communist camp; the next day they were democracies.

In Bulgaria, one of the most immediate priorities was to hammer together a constitution for the newly democratic government. One of the principal authors of that constitution will be on campus this week to meet with faculty and students.

Snezhana Botusharova-Doicheva, the newly appointed ambassador of the Republic of Bulgaria to the United States, will recount her nation's move to democracy.

She will speak on "Writing a Constitution for a Developing Democracy: The Bulgarian Experience" at 7:30 p.m. tonight in Gannett Auditorium. The lecture is free and open to the public.

During her visit, the ambassador will lead a faculty seminar on the same topic and meet with the Bulgarian students who attend MU. Her visit is the first in a series of events on women in international affairs, sponsored by MU and Stephens College with a grant from the U.S. Department of Education.

Botusharova-Doicheva earned her law degree from Sofia University in 1978. She

worked for several years as a judge and lawyer in Sofia and later served as assistant professor of constitutional law at Sofia University. She was elected to the Grand National Assembly of Bulgaria in 1990 and as a member of parliament in 1991.

As one highlight of her visit to Columbia, Botusharova-Doicheva will attend the world English-language premiere of *Miracle*, a work by the Bulgarian playwright Evan Radoev.

*Miracle*, one of the best-known plays in Eastern Europe, has never before been performed in English, says Byron Scott, an MU professor of journalism who directs the play.

Scott spent more than a year teaching at the American University of Bulgaria and edited the English version of *Miracle*. Albena Yordanova, a Bulgarian graduate student in the School of Journalism, is the principal translator and assistant director.

The play will be performed by the Midwest Renaissance Theater Company at 8 p.m. Nov. 18 in Windsor Auditorium on the Stephens College campus. It will run through Nov. 20, and again Nov. 25 to 27. Tickets are \$6 for adults, \$5 for students and senior citizens, and are available at the door or in advance from Cool Stuff, Acorn Bookshop or The Peace Nook.

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## Leuthold examines 1992 Missouri election in new book

The strong, anti-incumbent feelings, numerous negative commercials and high expenditures of money seen in Missouri's 1994 political campaigns were a continuation of patterns established in 1992 and earlier years, according to David A. Leuthold, MU professor emeritus of political science.

Leuthold's newest book, *Campaign Missouri 1992*, is based on a symposium conducted on the MU campus after the 1992 election in which opposing campaign managers described their campaigns, and responded to questions from political reporters. The book is a compilation of the symposium discussions by key players in the 1992 campaigns, including campaign managers, judges, media institutions, Congressional candidates, political consultants and professors.

"Even more than in 1994, the 1992 Missouri candidates relied heavily on television commercials to influence voters, necessitating high expenditures of funds. To secure those funds, major candidates spent much, often most, of their time telephoning for money," Leuthold said.

In 1992, Missouri attracted numerous visits from the presidential and vice-presidential candidates, their spouses and their top supporters, including many Cabinet officials. As President Bush's Missouri campaign executive director said, "Missouri was always regarded not in terms of just the Missouri voters, but as the heartland. As Missouri goes, so goes the nation." Manag-

ers for each of the three major candidates described their campaigns in the chapter on presidential campaigns in Missouri.

In another chapter, three of the state's top political reporters discuss the media's impact on the 1992 campaign. In yet another, four of the state's leading activists present their ideas for campaign reforms.

'Even more than in 1994, the 1992 Missouri candidates relied heavily on television commercials to influence voters, necessitating high expenditures of funds. To secure those funds, major candidates spent much, often most, of their time telephoning for money.'

— David A. Leuthold  
MU professor emeritus of political science.

Using Missouri as a microcosm of American politics — the state having cast majority votes for the winning candidates in all but one presidential election since 1904 — *Campaign Missouri 1992* illustrates the art and science of campaign management in America.

Leuthold has been writing and speaking about Missouri political campaigns for more than 30 years. He is co-editor of the forthcoming second edition of *Missouri Government and Politics*, and author of *Electioneering in a Democracy: Congressional Election Campaigns*.

## Thanksgiving Holiday Luncheon

Wednesday, November 23  
11:30 a.m. to 1:30 p.m.  
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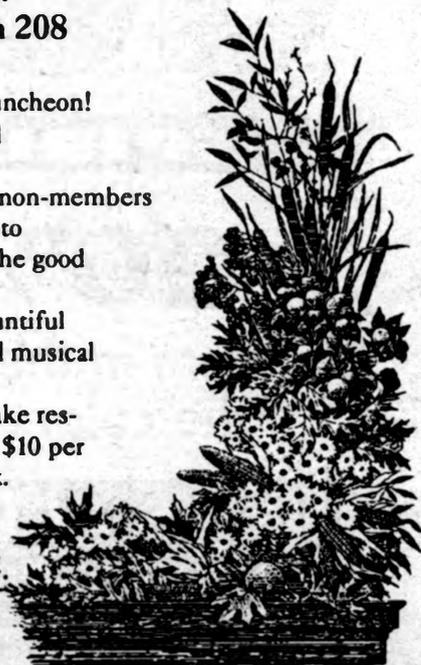
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# Flower power

*Agronomists study boron's essential role in plant growth.*

**A**rmed with a pair of tweezers and a simple flour sifter, Maureen Wright, a doctoral student in agronomy, spent much of the summer harvesting the raw material of science.

Spending hour after hour in the hot sun, Wright tediously plucked tiny tendrils, called stamens, from the inside of thousands of daylilies and other flowers. Then she deposited the stamens in a flour sifter to separate them from the grains of pollen that cling to them.

The harvest from days of work and hundreds upon hundreds of flowers, amounts to a few grams of pollen, colored the same bright orange of the daylilies. To Wright, the small stockpile of pollen represents a starting point in her research.

Wright is working with agronomy professor Dale Blevins to explore the effect of an element called boron on the reproductive development of flowering plants. "We know that boron is essential for plant growth. We know all plants need it, but we don't know why," Wright says.

Boron is just one of a number of

micronutrients — chemical elements that plants require in minute amounts in order to grow. A pinch of boric acid in a gallon of water can make a difference in a plant's growth.

In previous experiments, Blevins and his students have demonstrated that boron can change the growth of a plant, the way the plant functions and how it takes up other nutrients. For instance, spraying the leaves of soybean plants with a solution of boron causes the plants to produce more branches and can increase soybean yields.

More recently, Blevins' research team found that applications of boron can improve root development in alfalfa and squash plants grown in acidic, high-aluminum soils found in southwest Missouri. Blevins believes that the so-called aluminum toxicity in soils, sometimes so deadly that it blocks root growth of crops, may really be boron deficiency that can be corrected with just a bit of extra boron.

The pollen Wright collected this summer may help answer another riddle about how boron helps plants grow. Back in the lab, Wright is growing out the grains of pollen in a sucrose solution similar to the natural fluids

found in plants. Some of her laboratory solutions will have boron added, others will not.

When pollen grains are placed in the solution they quickly begin to grow a long tube. In a more natural environment, such as a daylily flower, the pollen tube grows down to the flower's seed and pollinate the seed.

Wright will compare the growth of the pollen tubes with and without boron. She'll also analyze the impact of boron on plant enzymes that are important to growth. "We feel boron might be needed for metabolism of the plant," Wright says. "We think certain enzymes have to be stimulated for the cell to undergo growth."

Answers are still down the road, but supplies of pollen are safely stored in the laboratory freezer. Research will go on during the dreary days of winter, long after the daylilies have withered.

What draws Wright to her research is the basic mystery behind biological systems. "You and I live every day, yet we don't really know how we work."



**Maureen Wright, doctoral agronomy student, harvests stamens from flowers. The pollen they yield is the raw material of her research.**

Laurie Skirvan photo

# Faculty mentors sought for McNair program

More students will be able to take part in special mentoring and research activities, thanks to an increase of nearly 50 percent in funding this year for the McNair Scholars Program at MU.

The program is named for Ronald McNair, who died in 1986 in the Challenger space shuttle disaster, and is funded by the U.S. Department of Education. Its goal is to prepare low-income, first-generation college students for doctoral studies. The program also targets students from groups that are under-represented in graduate education.

McNair scholars receive stipends for research internships with faculty mentors in a wide range of disciplines. The program also provides financial support that allows the scholars to attend an academic conference with their faculty mentor.

The increase in funding — from \$163,000 to \$241,000 — means that as many as 30 MU students will now be able to take part in the mentoring experience. Previously, participation was limited to approximately 20 students, says program director Vicki Curby.

Curby says the program invites applications from faculty members interested in

serving as mentors for junior or senior students who are preparing for graduate study. Faculty in all disciplines are welcome to apply. Mentor applications are due by Jan. 5, so that interested students can begin to review them and prepare their own applications for the program.

Selection of McNair scholars for 1995-

Its goal is to prepare low-income, first-generation college students for doctoral studies. The program also targets students from groups that are under-represented in graduate education.

1996 will take place during the 1995 winter semester. Faculty mentors will supervise the students' research or scholarly activity either during the 1995-95 academic year or the 1996 summer semester.

Applications are available from the McNair program office at 210 Jesse Hall, or by calling 882-1962. With questions about the program, call 882-0084.

We may have lost an hour of daylight, but Mizzou Credit Union's convenient hours will save you time!



## Mizzou Credit Union's New Hours

|                      |                    |
|----------------------|--------------------|
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| Friday               | 7:30 am — 6:00 pm  |
| Saturday             | 9:00 am — 12:30 pm |



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The University of Missouri-Columbia and Stephens College welcome to Columbia

Dr. Snezhana Botusharova-Doicheva  
Bulgarian Ambassador to the United States

Ambassador Botusharova-Doicheva will be presenting a lecture entitled

"Writing a Constitution for a Developing Democracy:  
The Bulgarian Experience"

Thursday, November 17, 1994  
7:30 p.m. Gannett Auditorium

Ambassador Botusharova-Doicheva's visit marks the first in a series of joint MU/Stephens events on "Women in International Affairs."

The lecture is free and open to the public. An informal reception will follow the lecture.

Sponsored by the MU International Center and Stephens College.  
Funded in part by a grant from the U. S. Department of Education

## Blood sugar and cholesterol: Finding a balance

### Diabetes Day

1-3 p.m., Sunday, Nov. 20, 1994  
Cosmopolitan International Diabetes Center  
University Hospital and Clinics Lobby

Understanding the relationship between cholesterol and diabetes control is very important for people with diabetes. Diabetes Day offers the following:

- Low-fat food preparation (recipes included!)
- Exercise and weight-management tips
- Discounted cholesterol screenings and body-fat analysis
- Grand opening: Diabetes Patient Library
- Door prizes

At 1:15 p.m., Dr. David Gardner, cholesterol specialist, will present the latest information on cholesterol and diabetes control. Dr. Gardner will be available for a question and answer session for those who attend his presentation.

For more information, call 882-6565.



The University Hospital and the Cosmopolitan International Diabetes Center patient education program was recognized by the American Diabetes Association in accordance with the National Standards for Diabetes Patient Education Programs.

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Grant Proposals  
Reports**

**Committee Reports & Handouts**

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## CAMPUS COMPUTING

**Hours of Operation  
for the Thanksgiving Holiday**

Campus Computing's administrative offices will close Wednesday, November 23 at 5:00 pm for Thanksgiving and reopen on Monday, November 28 at 8:00 am.

The computing sites will observe the following hours of operation for the Thanksgiving holiday:

**Tuesday, November 22**

\*All sites close at midnight.

**Wednesday, November 23**

23 Heinkel ..... 7 am - 5 pm

10 Arts & Science,

8 Middlebush,

135 Physics ..... 8 am - 5 pm

**Thursday and Friday, Nov. 24 and 25**

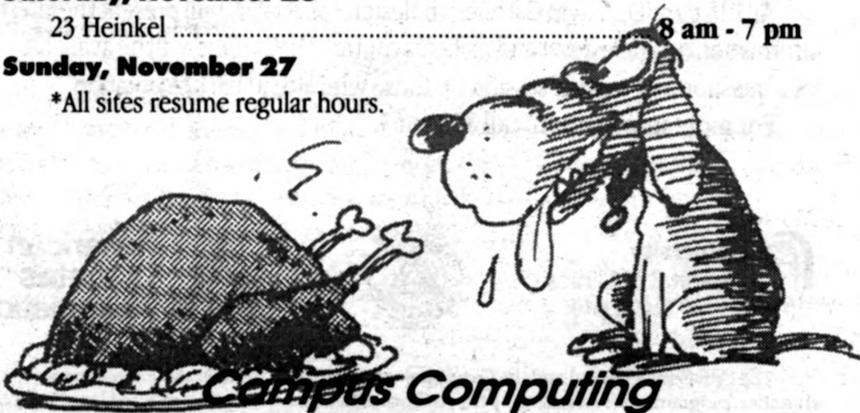
All sites are closed.

**Saturday, November 26**

23 Heinkel ..... 8 am - 7 pm

**Sunday, November 27**

\*All sites resume regular hours.



Campus Computing

\*S-5 Memorial Union will close on Tuesday, November 22 at 10:00 pm and reopen on Monday, November 28 at 8:00 am.

## M I Z Z O U PEOPLE

Have you been promoted, won an award or presented a paper recently? The 'People' column wants to know about it. Send your news to Susan France Salzer at 407 Reynolds Center. But please be patient; we receive many entries, and publish them in the order in which they are received.

### Appointments and promotions

Cyrus O. Harbourt, professor and interim chairman of electrical and computer engineering, has been elected vice president of the Missouri Society of Professional Engineers.

### Awards and Honors

John Foley, professor of English and classical studies, was elected to a three-year term, 1994-97, on the Publications Committee of the American Philological Association, the national professional association for the study of Greek and Latin language and literature.

Tim Helmsz, dean of the School of Law, was selected as a member of a study committee on the Uniform Arbitration Act. He was also chosen for the Board of Governors of the National Academy of Arbitrators Nominating Committee.

Marilyn Krueger, staff nurse in the Newborn Intensive Care Unit of Children's Hospital at University Hospital and Clinics, received a \$1,000 scholarship from the National Association of Neonatal Nurses.

### Grants and Fellowships

William A. Berry, curators' professor of art, received a \$5,000 fellowship from the Mid-American Arts Alliance/National Endowment for the Arts Regional Visual Arts Fellowship Program in paintings and works on paper.

### National and International Presentations

Guy B. Adams, associate professor of public administration, spoke at the centenary dinner in honor of the late Sir Geoffrey Vickers, Oct. 13 at the University of Westminster, London, England.

Daisy Arredondo, assistant professor of educational leadership and policy analysis, conducted a workshop, "Restructuring Teaching Through Use of the Dimensions of Learning Model" May 20 for Chilliwack Senior Secondary faculty in Chilliwack, British Columbia. She also co-presented a paper, "Using the Newer Cognitive Research in Teacher Education Classes" at

the national conference of The Renaissance Group on Oct. 13 in San Antonio, Texas. Mary Beck, assistant professor of law, and Melissa Lee, senior secretary School of Law, presented information about adult and child orders of protection and the law school's Family Violence Clinic to the staff of the 13th Judicial Circuit.

Bob Bender, director of special degree programs and professor of English, gave a presentation on "Electronic Journal Writing: A Demonstration on Using the Internet" at the 16th Annual Conference of the Association for Integrative Studies in Pittsburgh, Sept. 29 through Oct. 2.

Martin Camargo, professor of English, organized and chaired a session on "Self, Law, and the Other in Chaucer's *Canterbury Tales*" Sept. 24 at the 10th annual Conference of the Medieval Association of the Midwest in Emporia, Kan.

Bede Clarke, professor of art, presented a paper "Three American Potters Respond to Tea Wares and the Beauty of Imperfection: A Modernist Critique of Western Classicism" at the Field Museum Conference "Asian Ceramics: Potters, Users, and Collectors" Oct. 7-9 in Chicago. Noble E. Cunningham, Jr., professor of history, attended the annual meeting of the Southern Historical Society Nov. 9-12 in Louisville, Ky.

Kitty Dickerson, professor and chair of the Department of Textile and Apparel Management, was invited to participate in the World Economic Forum Industry Summit. She presented "The Outlook for International Trade in Textiles and Clothing Under the New World Trade Organization."

Susan Flader, professor of history, presented a paper at the Conference on the Land Ethic: Germany and America, Oct. 26-30 in Madison, Wis.

Haskell Hinnant, professor of English, chaired a session titled, "The New Economic Criticism and Eighteenth-Century Studies," and presented a paper titled, "Anne Finch: Fabulist" at the annual meeting of the Midwestern American Society for Eighteenth-Century Studies Oct. 15 at Illinois State University-Normal.

Stanley Manahan, professor of chemistry delivered the plenary lecture titled "Environmental Chemistry and the New Realities of Chemical Science" at the Annual Caribbean Conference on Chemistry and the Environment held in San Juan, Puerto Rico. He also presented a three-hour short course on "Solid and Hazardous Wastes" at the same conference. During the trip he also gave lectures on environmental chemistry at the Catholic University in Ponce and the University of Puerto Rico at Mayaguez.

Tim Materer, professor of English, co-presented "Real World Freshman English: Writing for Publication in a First-Year Composition Course" Oct. 8 at the Midwest Writing Centers Association Conference in Kansas City.

Michael Middleton, professor of law, presented a paper titled, "Brown v. Board Revisited" at a conference dedicated to a reassessment of the constitutional basis for the decision in Brown v. Board of Education, Oct. 8 at the Southern Illinois University School of Law-Carbondale.

Charles G. Nauert Jr., professor of history, attended the 16th Century Studies Conference, Oct. 27-30. While there, he also attended a meeting of the *Sixteenth Century Journal* executive committee and confer with the co-author of *Erasmus Correspondence*, vol. 12.

John R. Roberts, professor of English, was a steering committee member at the biennial 17th-century conference, "Representing Women in the Renaissance" Oct. 7-9 at the University of Michigan-Dearborn.

Vernon Stone, professor emeritus of journalism, made a research presentation in October at a Unity '94 session on minorities in mass media at the Radio-Television News Directors Association convention in Los Angeles.

Arvarh E. Strickland, professor of history, attended the meeting of the Western

Historical Association in Albuquerque, New Mexico; and a meeting of the Phi Alpha Theta publications committee in Temple, Arizona Oct. 20-23. He presided at the Phi Alpha Theta luncheon, and at a meeting of the executive committee of the council. He also attended a meeting of the publication committee as it prepared to select a new editor for the *Historian*.

Arvarh E. Strickland, professor of history, attended the meeting of the Southern Historical Association, a meeting of the Phi Alpha Theta executive committee and the Phi Alpha Theta International Council, Nov. 9-12 in Louisville, Kentucky. He chaired the SHA nomination committee, presided at the Phi Alpha Theta luncheon and executive committee and council meetings. He also participated in a panel, "Remembering H.L. Mitchell."

Steven Watts, professor of history, attended the American Studies Association Annual Meeting, Oct. 27-29, in Nashville.

## FORUM

*Mizzou Weekly* encourages faculty and staff to submit columns on topics of interest to the campus community. Submissions should not exceed 1,000 words. Send your column to Forum, c/o Susan France Salzer at 407 Reynolds Center.

## LETTERS

*Mizzou Weekly* encourages letters to the editor. Please limit letters to 350 words, include your name, title and campus address, and send to Letters, *Mizzou Weekly*, 407 Reynolds Center. *Mizzou Weekly* reserves the right to edit for length.

Where would Hansel and Gretel be without a forest?

Only You Can Prevent Forest Fires.



## Q&A

Send your questions about campus matters to *Mizzou Weekly*, 407 Reynolds Center. You must include your name and phone number so we can reach you, if necessary. All questions remain anonymous. *Mizzou Weekly* will not answer unsigned questions.



## PANIC ATTACKS



A **PANIC ATTACK** is defined as the sudden onset of intense apprehension, fear or terror often associated with feelings of impending doom. Or it can involve the sudden onset of intense physical sensations or symptoms. These may include the following:

- Racing, pounding heartbeat or chest pressure
- Shortness of breath or smothering sensations
- Sweating, hot flashes or chills
- Fear of dying or doing something uncontrolled
- Trembling, shaking, numbness or tingling sensations
- Dizziness, unsteady feelings or faintness
- Nausea or abdominal distress

If you have at least four **PANIC ATTACKS** per month, you may qualify for a free research program being conducted at the University of Missouri Hospital and Clinics involving the use of an investigational anxiety-reducing medication. If you are between the ages of 18 and 60, and have no serious medical illness, please contact Lynn at **882-0408**.

## Publications

Daisy Arredondo, assistant professor of educational leadership and policy analysis, is the author of the article: *Impressions of Principal Training in Russia and the Ukraine*, published in the May 1994 issue of *NASSP Bulletin*, the journal of the National Association for Secondary School Principals.

David A. Leuthold, professor emeritus of political science, is author of *Campaign Missouri 1992* published by the University of Missouri Press.

Charles G. Nauert, Jr., professor of history, is the author of the general introduction, letter introductions, and historical notes to a new English translation of the letters of the Dutch humanist Desiderius Erasmus, published as volume 11 of the *Collected Works of Erasmus* by the University of Toronto Press. He has also been invited to provide the note and introductory materials for volume 12 of the series.

## MIZZOU IN THE MEDIA

Has news of your latest project appeared in newspapers or magazines recently? Have you been interviewed by television or radio stations? If you'd like to share this news with the campus community, send your information to Sue Richardson at 407 Reynolds Center.

## MIZZOU WEEKLY

Vol. 16 No. 13

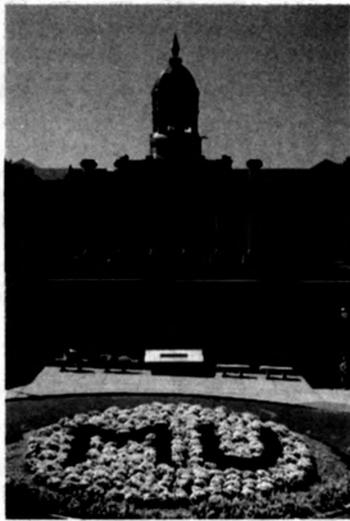
A publication of the University of Missouri-Columbia faculty and staff, published every Thursday during the academic year and twice a month during the summer by Publications and Alumni Communication, a department of University Affairs, 407 Reynolds Alumni and Visitor Center, 882-7357. News deadline is noon Thursday the week before publication. Annual subscriptions are available for \$20.

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Assistant editor: John Beahler  
Staff writers: Sue Richardson, Jim Kelly  
Director of Advertising: Tanya Stitt  
Graphic editor: Nancy Daniel



Printed with soy ink on recycled newspaper containing 90 to 100 percent post-consumer waste.

## An Award-Winning Team



The landscape designers, arborists, horticulturists and staff who make up the Campus Facilities grounds department are proud of their work beautifying and caring for the MU campus.

And the Professional Grounds Management Association says they have every right to be proud. The PGMA selected MU to receive its national Honor Award for excellence

## Grounds Department Wins National Honor Award

### MU Recognized for Landscaped Beauty

in campus grounds maintenance.

Our grounds team gently cares for almost 5,000 trees, 302 acres of grass, and numerous annual flowerbeds on the MU campus. They create a beautiful environment for students, faculty, and staff to learn, work or relax.

As you walk through the campus, notice the work of our nationally-recognized grounds team and enjoy the softly falling leaves, the yellow mums, the gentle bubbling brook in Peace Park and the historic Francis Quadrangle.



The University of Missouri Department of Theatre  
presents  
Two One-Acts by Slawomir Mrozek

**Charlie  
and  
The  
Martyrdom  
of  
Peter  
Ohey**

Directed by  
Robert Barrie

Nov. 10, 11, 12  
17, 18, 19 - 8 pm

Nov. 20, 2 pm

All Seats \$5

Corner Playhouse  
Fine Arts Annex,  
NW Corner UNIV & HITT

For Tickets  
CALL 882-PLAY  
Mastercard/Visa/Discover

# CALENDAR

Send calendar items in Campus Mail to  
Mizzou Weekly Calendar, 407 Reynolds Center,  
by noon Thursday the week before publication.  
Events are free and open to the public unless otherwise noted.

## Concerts and Plays

**FINE ARTS SERIES:** The Department of Theater will present *The Martyrdom of Peter Ohey* and *Charlie*, directed by Robert Barrie, at 8 p.m. Nov. 17, 18 and 19 in the Corner Playhouse, and at 2 p.m. on Nov. 20. Cost is \$5.

**STUDENT ENSEMBLE SERIES:** University Philharmonic will perform at 8 p.m. Nov. 18 at the Missouri Theatre. Call 882-2604.

**FINE ARTS SERIES:** Karen Tuttle will perform on the viola at 12:30 p.m. Nov. 19 in Whitmore Recital Hall.

**CONCERT SERIES:** The American Family Theater will perform *Aladdin and His Magic Lamp* at 7 p.m. Nov. 19 in Jesse Auditorium. Cost is \$10 for adults and \$6 for children. Call 882-3781.

**STUDENT ENSEMBLE SERIES:** Symphonic Wind Ensemble and Symphonic Band will perform at 3 p.m. Nov. 20 at Missouri Theatre. Call 882-2604.

**STUDENT ENSEMBLE SERIES:** Concert Chorale will perform at 8 p.m. Nov. 20 at First Baptist Church. Call 882-2604.

**CHILDBIRTH CLASS:** "Beginning Childbirth" will be offered from 7-9 p.m. on Tuesdays through Nov. 29 in the seventh-floor classroom at Ellis Fischel Cancer Center. Cost: \$45. To register, call 882-6973.

## Exhibits

**BINGHAM GALLERY:** Hee Soo Kim's "Expression About the Reality of Object" will be on display through Nov. 18. A reception will be held from 3 to 5 p.m. Nov. 18 in Bingham Gallery. The gallery, open from 10 a.m.-4 p.m. Monday-Friday, is in the Fine Arts Building.

**BRADY COMMONS GALLERY:** Michael Cramer "Mixed Media" will be on display Nov. 14-29. Paintings by Phil Slein will be on display Dec. 1-13. The gallery, located in 203 Brady Commons, is open from 10 a.m.-5 p.m. Monday-Friday.

**ELLIS LIBRARY:** Highlights from the National Women in Media Collection will be on exhibit in 23 Ellis Library, Western Historical Manuscript Collection, through November. The collection is open from 8 a.m.-4:45 p.m. Monday through Friday and from 8 a.m.-9 p.m. on Tuesday.

**MUSEUM OF ANTHROPOLOGY:** Exhibits on Missouri archaeology, Native American cultures of North American and Missouri history are on display. The museum, located in Swallow Hall, is open from 9 a.m.-4 p.m. Monday through Friday, and 10 a.m.-1 p.m. on Saturdays of home football games.

**MUSEUM OF ART AND ARCHAEOLOGY:** "Reinstallation of Ancient Art from the Permanent Collection" will be on display in November. "Ways of Looking" will be on display through Dec. 18. Also on display is "Isms and Others in the 20th Century." The museum, in Pickard Hall, is open from 9 a.m.-5 p.m. Tuesday through Friday; 9 a.m.-5 p.m. and 6 - 9 p.m. Thursday; and noon-5 p.m. Saturday and Sunday.

**STATE HISTORICAL SOCIETY:** "Reflections on Missouri," a study in pen and ink of historical landmarks and places of interest around the state, will be on

## Conferences

**CANCER CONFERENCE:** "Current Issues in Gastrointestinal Cancer Management" will be offered from 8:30 a.m.-12:30 p.m. Nov. 19 in the main lobby of Ellis Fischel Cancer Center. To register, call 882-8131.

## Courses

**CAMPUS COMPUTING:** "Accessing Research and Grants Information" will be offered from 1:30-4:30 p.m. Nov. 17 in 266 Heinkel Building. To register, call 882-2000.

## They're Paw'n All Over Em'!

General Stores is giving away a  
LIMITED number of  
Wooden Pallets.

For more information  
Call 882-6908  
(M-F between 8 a.m. - 4 p.m.)

Come Get Your Paws on Some...

They make for  
Gr...Great  
kindling wood.



The University of Missouri-School of Medicine, Division of Neurology, is conducting a study of a new investigational medication for acute stroke treatment.

Qualifying participants need to meet the following criteria:

- Enrollment in the study must occur within 24 hours of stroke onset
- Minimum age 30 years
- Individuals must have been ambulatory and functionally independent just prior to stroke onset

If you or someone you know is interested in participating, or would like more information, please call  
(314) 882-8040.

**MIND  
OVER  
MATTER**

**ACUTE STROKE TREATMENT**



Travel with Clara and the Nutcracker Prince to a festive land of candy and dreams when Ballet Dallas and local ballerinas present Tchaikovsky's *Nutcracker* at 7 p.m. Dec. 9, and at 2 and 7 p.m. Dec. 10 at Jesse Auditorium. For ticket information, call 882-3781.

**S.H.A.R.E. SUPPORT GROUP:** Will meet at 7 p.m. Nov. 17 at Ellis Fischel Cancer Center. For information, call 882-3324.  
**HEARTS FOR LIFE:** Meeting will be held at 7 p.m. Nov. 17 in the Main Street Conference Room at University Hospital and Clinics. Hearts for Life programs are free and open to anyone interested in cardiovascular health. Call 882-1081.  
**NICOTINE ANONYMOUS:** Meeting will be held at 7 p.m. Nov. 22 at Ellis Fischel Cancer Center. Call 882-7353.

## Special Events

**GRADUATE SCHOOL:** The annual fall campus visitation program for prospective minority graduate students will be held Nov. 17-20. Call 882-9580.  
**FLU IMMUNIZATIONS:** University Hospital and Clinics will offer flu immunizations from 9 a.m.-noon and from 3-6 p.m. Nov. 17 at the Health Information Center in Columbia Mall. The vaccine will be provided free of charge to persons over age 65 or those with chronic illness. Others will be charged \$5.  
**MID-MISSOURI PEACEWORKS:** *Toys and Toying With Their Future* will be shown at 7 p.m. Nov. 18 and 1:30 p.m. Nov. 19 in Gannett Auditorium. Discussion will follow. Call 875-0539.  
**DIABETES DAY 1994:** Will be held from 1-3 p.m. Nov. 20 at the Cosmopolitan International Diabetes Center at University Hospital and Clinics. Call 882-6565.  
**BLACK CULTURE CENTER EVENT:** Umoja Karamu Celebration will be held at 2 p.m. Nov. 20 at the Black Culture Center. Call 882-2664.  
**THANKSGIVING RECESS:** Begins at 10 p.m. Nov. 22.

exhibit in the gallery through mid-December. Corridor exhibits are "The Contemporary Artists Collection" and "Decades: 1893 to 1964, Editorial Cartoons." The gallery is open 8:30 a.m.-4 p.m. Monday through Friday. The corridors are open from 8 a.m.-4:30 p.m. Monday through Friday and 9 a.m.-4:30 p.m. Saturday.

professor of agronomy, will present "Genetics of Maize Response to Biological Stresses" and Hari Krishnan, associate professor of plant pathology, will present "Signal Exchange Between Rhizobium and Legumes" at 3:40 p.m. Nov. 17 in 28 Schweitzer Hall.

**COSMOPOLITAN DIABETES LECTURE:** Michael Brownlee, Albert Einstein College of Medicine, Bronx, N.Y., will present "Curing Diabetes Through Genetic Engineering of B-Cells" at 7 p.m. Nov. 17 at the Cosmo Community Center, 1715 Burlington.

**HUMAN RESOURCE SERVICES SEMINAR:** "Success with Stress" will be offered from 8:30 a.m.-3:30 p.m. Nov. 18 in 146 Heinkel Building. Call 882-2603.

**ENTOMOLOGY SEMINAR:** Francis Lloyd, student, will speak at 2:40 p.m. Nov. 18 in Room 2-7 Agriculture Building.

**HEALTH SERVICES MANAGEMENT FORUM:** Jag Gill, vice president of Geisinger Health System in Danville, Pa., and a 1989 MU health services management alumnus, will present "Managed Care and Integrated Systems at Geisinger" at 3 p.m. Nov. 18 at Jesse Wrench Auditorium, Memorial Union South.

**HUMAN DEVELOPMENT/FAMILY STUDIES COLLOQUIUM:** Mark Rank, Department of Social Work, will present

"Living on the Edge: The Realities of Welfare and Poverty for Families" at 3:30 p.m. Nov. 18 in 209 Gwynn Hall. A reception will follow.

**SOIL AND WATER RESOURCES SEMINAR:** Rob Parmelee, The Ohio State University, will present "Earthworms and Nutrient Cycling in Agroecosystems" from 3:40-4:30 p.m. Nov. 21 in 133 Mumford.

**PHARMACOLOGY RESEARCH SEMINAR:** Laura Dugan, assistant professor at Washington University Department of Neurology, will speak at 11:40 a.m. Nov. 22 in M558 Medical Sciences Building.

**CHEMICAL ENGINEERING SEMINAR:** Yin Lin, Ph.D. candidate, will present "Barrier Properties of Plasma Polymers" at 3:40 p.m. Nov. 22 in W0015 Engineering Building East.

## Meetings

**FACULTY COUNCIL:** Will meet at 3:40 p.m. Nov. 17 in S110 Memorial Union.

## Sports

**WRESTLING:** The Tigers grapple with Oklahoma State at 7:30 p.m. Nov. 17 at the Hearnes Center.

**FOOTBALL:** Tigers meet Kansas at 1 p.m. Nov. 19 on Faurot Field.

**MEN'S AND WOMEN'S SWIMMING AND DIVING:** The Tigers will face Millikin and Stephens College at 2 p.m. Nov. 19 at the natatorium.

**VOLLEYBALL:** Tigers meet Kansas at 7:30 p.m. Nov. 19 at the Hearnes Center.

## Films

**MSA/GPC FILM:** *Manhattan Murder Mystery* will be shown at 7 and 9:30 p.m. Nov. 18 and 19 in Ellis Auditorium. Cost is \$2 in advance and \$2.50 at the door.

## Lectures and Seminars

**HUMAN RESOURCE SERVICES SEMINAR:** "A Winning Balance" will be offered from 9 a.m.-4 p.m. Nov. 17 in 146 Heinkel Building. Call 882-2603.

**GENETICS AREA PROGRAM SEMINAR:** Mike McMullen, associate

## The Faculty Steering Committee on "Women in International Affairs"

Is soliciting faculty applications for:

1. Summer 1995 interdisciplinary workshop stipends on Women in International Affairs (May 15 - 26).

and

2. Stipends to develop new, undergraduate courses relating to Women in International Affairs (Summer 1995).

Deadline for submitting applications is December 1, 1994

For more information contact Sharon Welch (882-8831), or John Heyl, International Center (882-6008).

## Parking & Transportation Services

Turner Ave. Garage, Level 2  
882-4568

Our office will be closed from noon to 1 p.m. today, Nov. 17, for a holiday luncheon.

# MU receives large federal grant for science and engineering traineeships



**I**n the future, scientists and engineers will need to apply all their expertise to important environmental issues as such as global warming, acid rain, ozone depletion, indoor air quality and disposal of chemical and nuclear wastes. We've all got a stake in their success.

MU will help them achieve it. The National Science Foundation has awarded the University a \$562,500, five-year grant to provide graduate research traineeships in particulate systems science and engineering. The University is inviting applications for five traineeships for the first year of the grant, 1994-95, totaling \$112,500.

The traineeships, sponsored by MU and the NSF, offer master's and Ph.D. students stipends of \$14,000 per year, plus tuition and fees. Funding will be three to five years, and admission will be in January or September 1995.

"Environmental research in the physical and mathematical sciences, geoscience and engineering is an area of significant national and international interest," says Sudarshan Loyalka, Curators' professor of nuclear, chemical and mechanical and aerospace engineering and director of MU's Particulate Systems Research Center, located in the College of Engineering. "Scientific advancements in the state of knowledge and technology development require comprehensive multidisciplinary education and research."

Students supported with the traineeships will pursue master's and Ph.D. degrees in MU's colleges of engineering or arts and

science. Participating faculty are in chemical, civil, mechanical and nuclear engineering and in atmospheric science, chemistry and physics. Experimental research projects will include characterizations and measurements of particle-vapor (gases) and particle-particle interactions, dry and wet deposition of particles and gases, trace gas emissions and transformations and radiative properties of particles.

Theoretical and computationally intensive projects will focus on sulfur chemistry, particle dynamics and general atmospheric circulation modeling. "And as part of the trainee's professional development experience, internships can be facilitated for students interested in working in national laboratories and industrial research centers in the United States and possibly at universities and laboratories abroad," Loyalka says.

NSF/MU graduate research trainees will be selected on the basis of merit. Within these guidelines, applications are encouraged by students from groups underrepresented in the sciences and engineering.

Loyalka says an applicant must have an excellent scholastic record; must expect to receive (or have received) a bachelor's or master's degree in a relevant area of science, mathematics or engineering; must intend to complete the Ph.D. and to pursue an academic career; and must be a U.S. citizen or permanent resident.

For more information, please contact Loyalka at 882-8201. His e-mail address is [loyalka@ecvax2.ecn.missouri.edu](mailto:loyalka@ecvax2.ecn.missouri.edu).

The study of particulate systems — or understanding how small dust-like particles evolve and move in the atmosphere — is a major emphasis of the College of Engineering. Here, MU doctoral student Greg Manning, right, assembles a cell with the help of Karen Shaffer, a student at Arkansas State University, as part of the National Science Foundation Research Experiences for Undergraduates Program, also directed at the college by Curators Professor Sudarshan Loyalka. The program, funded by the NSF, gives students from other universities the chance to study with MU researchers during the summer months.

College of Engineering photo

## MIZZOU

WEEKLY

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407 Reynolds Alumni and Visitor Center  
Columbia, MO 65211

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Scanning system software                    Book Pavilion  
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    24 bit color for color illustrations/portraits/photographs  
File types                                      tiff  
Notes

### Derivatives - Access copy

Compression                                Tiff: LZW compression  
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Resolution                                    600 dpi  
Color    same as captured  
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