

# MIZZOU

W E E K L Y

University of Missouri-Columbia / Jan. 19, 1995

## Freshman admissions up by 16 percent

As of Jan. 13, MU had received 7,000 freshman applications, an increase of more than 16 percent compared with the 6,000 received at this time last year, according to Registrar Gary Smith.

Applications from minority students are up 40 percent, with 400 applications received as of Jan. 13, compared with 285 for the same time period last year.

To handle this surge in freshman admissions, MU will defer its acceptance of some students. Those submitting applications postmarked later than Jan. 13 will be admitted for the fall semester only if they have ACT scores of 25 or better or a class rank in the top 25 percent. These criteria represent the average of the 1994 freshman class profile. Applications of students who do not meet these criteria will be placed on

an "active consideration" list and receive notification of their status as soon as possible, no later than early May.

"The overwhelming number of applications is in response to our renewed commitment to undergraduate education and a recognition that MU is a leader among the nation's great research universities," says Chancellor Charles Kiesler. "We did not set out to recruit more students, except in targeted categories. Rather, our intent was to improve our interaction with them and more effectively communicate the MU experience. But, we are pleased with how people are responding to MU's personalization of the recruitment process and improving the entire undergraduate experience on this campus."

In 1988, a 12 percent increase in freshman applications

precipitated the closing of admissions on July 1 to all candidates seeking enrollment in the fall class. Similar measures were taken in 1989 when the University enrolled the largest class in its history.

"The steps we are taking at this time are less drastic," says Vice Chancellor of Student Affairs Charles Schroeder. "As part of our new advising process, we are writing all our freshman admitted students to tell them that they will be joining the most academically talented, competitive and diverse class in MU's 156-year history. We are urging them to take full advantage of their last year in high school and to stay focused on a rigorous course of study. More than anything, we want these students to come to MU, to be successful and to graduate."

### ON THE INSIDE

Page 3 MU senior is nation's top ag engineering student

Page 6 Shelk comes from Bangladesh to be treated by MU surgeons.

Page 8 Chemists receive valuable equipment from Monsanto.



## Special delivery

*Certified nurse-midwife delivers first baby at University Hospital*

R.S. Kellan Ghio came into the world at 5 p.m. on Jan. 8 at University Hospitals and Clinics, thereby becoming the first baby in 10 years to be delivered by a certified nurse-midwife in a Missouri hospital. His birth also marks the first delivery performed by a certified nurse-midwife at University Hospital.

Weighing in at 8 pounds and 15 ounces, Kellan's delivery went smoothly after his mother, Samantha, labored only three hours in the hospital. Lisa Roberts, one of two certified nurse midwives at University Hospital, delivered Kellan. Certified nurse-midwife Deborah Walker also was present.

Roberts and Walker recently established a nurse-midwife educational program at MU's Sinclair School of Nursing. They have developed the curriculum and will begin educating students in the master's-level program this fall. Students will gain hands-on experience in the nurse-midwives clinical practice at University Hospital and other clinical sites around the state.

The midwifery program is designed to address health care shortages in rural areas by preparing nurse-midwives to work in medically underserved areas.

Kellan's mom, Samantha Atkinson-Ghio, says she chose a certified nurse-midwife to deliver her baby because she wanted to deliver naturally with as little medical intervention as possible. She and her husband, Eric, live in Columbia.

The 26-year-old first-time mother was "typical of the kind of patient who is the ideal candidate for a nurse-midwife birth," says Roberts. "She had an uncomplicated pregnancy and wanted the personalized care that is a hallmark of our profession."

Walker says the nurse-midwife philosophy is based on the principle that pregnancy is a normal, healthy life event. "We take care of women who are essentially healthy, but if serious complications develop, we consult with a physician who is available 24-hours a day at the hospital."

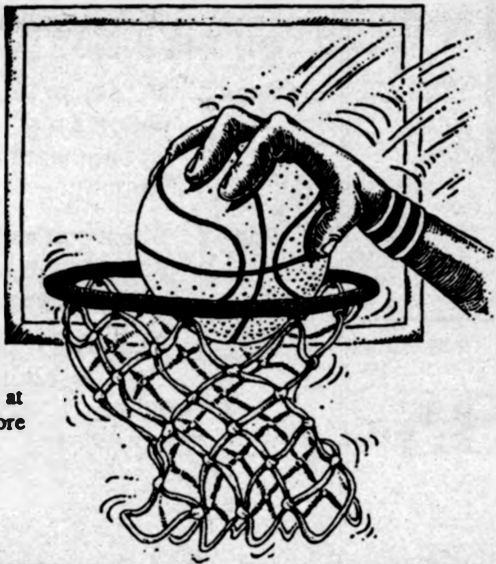
**Samantha Atkinson-Ghio admires her newborn son, Robert Samuel Kellan Ghio, who was delivered by certified nurse-midwives Deborah Walker, top, and Lisa Roberts, right.**

University Hospitals and Clinics photo



**LUNCH WITH NORM**

Faculty and staff are invited to a lunch with men's basketball Coach Norm Stewart at noon, Wednesday, Jan. 25 in Tingle Tiger Lounge at Memorial Stadium. If you can't make it then, another one is scheduled for noon, Tuesday, Feb. 21, at the same location. Cost of the luncheon is \$5 and reservations are required. Please call Phyllis at 882-2076 by the Friday before the luncheon you wish to attend.

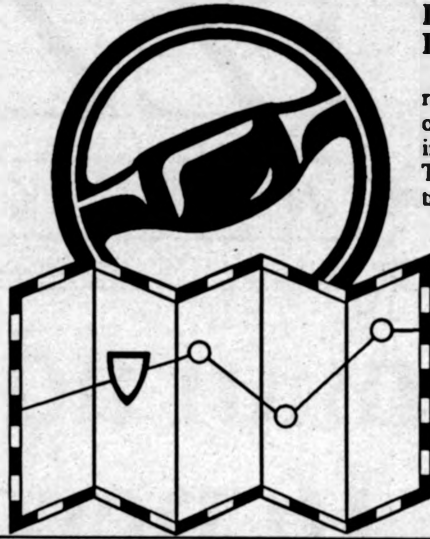


**NEW PLACE FOR NEW EMPLOYEE ORIENTATION**

Effective immediately, new employee orientation sessions will be held on the second floor of Memorial Union South. Dates remain the same: the first and third Wednesday of the month. On the first Wednesday, the sessions are in the morning from 8:30 to noon; on the third Wednesday, they are in the afternoon from 1:30 to 5. Call 882-2603 for more information.

**MILEAGE REIMBURSEMENT INCREASED**

The maximum reimbursement rate for use of personal vehicles on University business was increased to 30 cents per mile. The new rate is effective for travel occurring on or after Jan. 1.



**Staff Council promotes development awards**

A number of programs provide University staff with opportunities to grow professionally. They range from adult education courses and sharply reduced tuition for University classes to specialized training in everything from computer skills to budgeting.

MU's Staff Advisory Council is concerned that some staff might be overlooking another opportunity — Mizzou's Staff Development Awards. The competitive, campuswide awards cover expenses and fees for staff to attend conferences, workshops and short courses. Funded through the Chancellor's Office, the amount available for the awards was increased by \$10,000 recently, for a total of \$60,000 each year.

At a Jan. 12 meeting, council members talked over ways to ensure all staff are aware of opportunities available through the program. The awards are made three times a year, and applications are sent to all full-time staff before each round. Applications then are reviewed by a panel of staff volunteers from across campus.

Council member Susan Coats, staff nurse II at University Hospital and Clinics, questioned whether some staff don't apply for the development awards because they're unfamiliar with the process.

Several council members noted that volunteers are available to help individual staff complete applications. Ideas for making the program more visible include publicizing it

in a proposed Staff Advisory Council newsletter. Others on the council have suggested asking supervisors in some areas to research the available conferences, workshops and other development opportunities that could benefit their staff.

The application deadline for the next round of the Staff Development Awards is Feb. 1, and those selected will receive their awards by March 15. Application deadlines for the next two rounds of the awards are June 1 and Sept. 30. Staff with questions about the program may contact the Staff Advisory Council office at 882-4269.

In other action, the council:

■ continued preliminary planning for the 1995 Staff Recognition Week. The week of special activities celebrates staff contributions to MU, and will be held April 10 through 14. Each year, outstanding staff members in each of the four job classifications are honored at a recognition ceremony. Some of the new events being planned for the recognition week this year include semi-

nars on diversity and a presentation on health and wellness.

■ heard that expanding the Educational Assistance Program to include family members of employees continues to be a topic of discussion at the University. The UM System Staff Council will be distributing a survey on educational assistance in the coming weeks. In addition, Council Chairwoman Jane Cooper reported that the MU Faculty Council has asked to work with the Staff Council on the issue.

■ welcomed Rick Wise as a new member representing the administrative/professional job classification. Wise, customer services manager with Printing Services, replaced Marjorie Marberry who resigned at the end of last semester. Marberry, director of budgets and analysis at the School of Medicine, cited time constraints as the reason for her resignation. Wise was runner-up in the administrative/professional category during the most recent council election last summer.

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Rates: 30-word maximum \$3.  
Publication deadlines:  
Jan. 24 deadline for Feb. 2 issue  
Jan. 31 deadline for Feb. 9 issue  
**Mizzou Weekly Classifieds:** Make your check payable to University of Missouri and send to: *Mizzou Weekly*, 407 Reynolds Center, Attention: Tanya Stitt.

**UH, OH. WATCH OUT FOR THESE GUYS.**

According to Mizzou Telecom, Mizzou has become a target for "psychic hotline" operators, adult entertainment outfits and prison inmates trying to solicit business or fraudulently charge MU for telephone service.

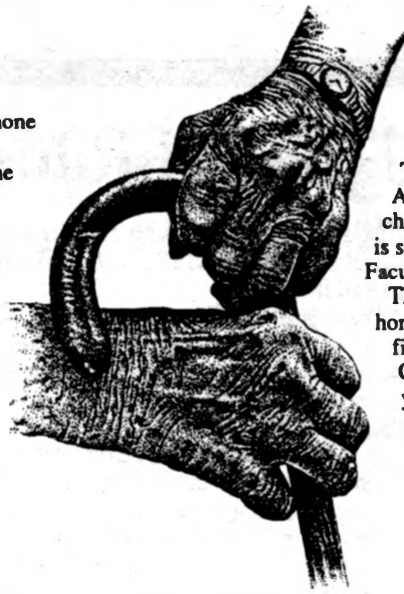
Telecom asks that you hang up immediately if you receive a call from a "psychic" or other telephone vendor asking you to accept charges.



Be aware also that some prisoners like to get people to accept collect calls and then ask to be transferred to an outside line so they can talk to their friends *ad infinitum* on your dime.

Recently, adult entertainment companies have begun leaving voice mail messages around campus saying something like, "Call Wendy at 1-800-xxx-xxxx." Although most people believe a 1-800 number to be a free call, these calls are not free and they will bill you.

Please report suspicious activity to Mizzou Telecom, 882-2177.



**NEWS FOR RETIRED FACULTY**

Retired faculty are urged to attend a lecture on the relative merits of state health care plans by staff benefits adviser Bonnie Arnold at 2 p.m. on Tuesday, Jan. 24 in Memorial Union Auditorium. Arnold will help University retirees understand recent changes in coverage and answer questions. The event is sponsored by the University of Missouri Retired Faculty Association.

The association also is offering day-long workshops to hone computer skills. Although the first two classes are filled, more may be offered if demand is sufficient. Contact Robert Breitenbach, program chairman, if you are interested in these workshops or have other program ideas.

**MU senior is nation's top ag engineering student**

Stacia Markway has been named student engineer of the year by the American Society of Agricultural Engineers, a 7,500-member organization. She won the prestigious award for her research on reducing fat content in ground beef products.

Markway's achievement marks the first time an MU student has won the award. A senior and native of Eldon, Markway expects to graduate in May with degrees in agricultural engineering and agricultural economics. She plans to stay at Mizzou for graduate training. Eventually she intends to enter the field of international food processing and perhaps teach.

She became interested in low-fat beef research because science has not kept pace with consumer needs. "There's a great demand out there right now for red meat that is low in fat and tastes good. We can take most of the fat out now, but the product is dry and the taste leaves something to be desired. Researchers have done a lot with chicken and we're doing more all the time with pork. But we still have a ways to go with red meat."

Her adviser is Steven Borgelt, assistant professor of agricultural engineering. "Few students display such genuine interest in their profession and become as involved as Stacia has. She is the kind of leader the engineering profession needs," Borgelt says.



Stacia Sprague, right, with her adviser, Steven Borgelt, assistant professor of agricultural engineering.

College of Engineering photo

*Your hands can bring your ideas into three-dimensional reality!*

The MSA/GPC Craft Studio will be offering the following arts and crafts classes starting the week of January 30th.



- Handbuilding With Clay
- Beginning and Intermediate Pot Throwing
- Four-Harness Weaving
- Basic Black & White Photography
- Introduction to Camera Techniques (color film)
- Jewelry Fabrication
- Black and White Photography
- Stained Glass
- Batik
- Woodworking



Call 882-2889 for more information.  
The Craft Studio is located at 203 Brady Commons on the University campus.

**We're setting it straight**

Campus Facilities continues to work on straightening, widening and improving Maryland Avenue as part of the Maryland Avenue Parking Garage project. When the road work is completed, motorists will have a straight road all the way from Conley Avenue to Stadium Boulevard.

While we're working, Maryland Avenue remains closed between Kentucky Boulevard and Hospital Drive. In late spring of 1995, the road will be re-opened although construction on the parking garage continues until January 1996.

Thanks for your patience as we improve the MU campus!



# Findings by MU plant biologists appear in *Science*, *Nature*

Two questions nagging plant biologists for years recently were answered by MU scientists. The findings shed light on the manner in which plants perceive signals and the way they recognize pollen.

The research came from the Interdisciplinary Plant Group, comprised of 33 faculty-led teams from six units dedicated to the study of plant biology. The pollen research, led by assistant professor of biochemistry Bruce McClure, was reported in *Nature* and landed a spot on *Discovery* magazine's list of the top science stories of 1994.

The signaling work, with biochemistry doctoral student Julie Stone as first author, appeared in *Science*.

"These are excellent examples of the type of cutting-edge basic research being done on this campus," said Doug Randall, professor of biochemistry and director of the plant group.

The signal research emerged from the lab of John Walker, assistant professor of biology, where investigators are examining the mechanisms by which messages outside a plant cell trigger action within the cell. This process, Randall says, opens the door for

understanding other cellular activities, which could range from recognizing a pathogen to spurring plant development.

Stone is recipient of a U.S. Department of Agriculture National Needs Fellowship.

McClure's work involved this question: how does a plant choose the pollen that will fertilize it, knowing innately to reject pollen from its own family? McClure discovered that a clever enzyme in plants is capable of ferreting out wrong pollen and saving the plant from self-fertilization. Working with McClure in his laboratory was postdoctoral research associate Jane

Murfett. They studied plants in the Solanaceae family, which includes tobacco and petunias, and found that in these plants, an enzyme in the pistils detects the presence of the taboo pollen and destroys it before it destroys the plant.

In Associate Professor John Birchler's lab, investigators are examining the link between the abundance of a plant's chromosomes and its vigor. An article by Birchler and postdoctoral fellow Mei Guo explaining why a plant fails if it has an abnormal number of chromosomes appeared in the Dec. 23 issue of *Science*.

## Freshman tops the field in statewide art contest

Learning about wildlife and conservation is what University of Missouri-Columbia freshman Ryan Peterson, 18, enjoys most about his classes. Outside of class, his passion for wildlife inspires his love of painting and drawing in what he calls a hobby, but others call a masterpiece. His oil-on-masonite painting, "Return to Eagle Bluffs," received first place in the Missouri Department of Conservation 1995 Waterfowl Hunting Stamp Competition.

The MU fisheries and wildlife major, who's been painting birds since age 13, painted a scene of two goldeneye ducks landing on a shore surrounded by bluffs. Peterson said he has never won an art contest and has never taken art lessons. He develops ideas for his paintings from his passion for bird-watching. "I have been a bird-watcher since I was very young," he said. "I have always been fascinated with bringing a bird to life on canvas."

Although he has entered the Waterfowl Hunting Stamp Competition for the past three years without placing, his diligence paid off this year. He spent more than two months and 400 hours on the painting. "I have never worked on a painting for that long," Peterson said, noting that the weekend before the contest entries were due, he worked on the painting for 24 hours without sleep.

Last year, Peterson illustrated *A Guide to the Birding Areas of Missouri* for the Missouri Audubon Society, of which he is a member. Also, he regularly illustrates *The Chat*, a Columbia-area Audubon Society newsletter.

Peterson competed in the contest against professional artists from around the state, but has no plans to make a living from selling his art. "It's just a hobby," he said. "It's the highest honor in the state for wildlife art. I just want my work to make other people happy."

## Learn and serve gives students best of both worlds

When Missouri high school students volunteer at nursing homes, they could get more than they bargained for — like an assignment on the biological changes of bone as it develops with ages. This assignment, and others like it, is part of students' involvement in Learn and Serve America, a service-learning program sponsored in part by the MU's Extension Youth Development. The program combines community service with education to teach youths about current issues of importance.

The program, which can involve a variety of activities, such as nursing home visits, recycling, cross-age tutoring, or building homes with Habitat for Humanity, allows elementary and secondary school-age youth to improve their local communities. "If we do our job right, these students will be very active and informed citizens," said Jacqueline Scott, coordinator of the program. "In addition, we hope that they realize

and say to themselves that, 'Hey, I can do great things.'"

The program began in 1991 with approximately 5,500 kids. Today it is funded by the Corporation for National and Community Service, a federal organization that came about through the 1993 National and Community Service Trust Act, and has an estimated 8,000 students participating.

Similar to Americorps, part of the program requires participants to engage in volunteering for community service to better their community environment. However, Learn and Serve America emphasizes service learning. As a result, the program has a strong education component. Before students even begin working on their project, they must first learn about all aspects of the project in great detail. A community service project benefiting the elderly might result in the student not only learning about certain historical events but also about biological changes in the body once it reaches a certain age.

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- 104 Jesse Hall, 882-8363

- 205 Vet Medicine, 882-4392

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# Seniors need not fear anesthesia, expert says

The fear of postoperative pain keeps many people from having operations they really need. Senior citizens in particular may be afraid of the pain, complications and nausea associated with anesthesia. However, their fears may be unfounded because improvements in equipment, drugs and methods over the last 10 years have made anesthesia safer than ever before, says Dr. Susan Krechel, associate professor of anesthesiology at the School of Medicine.

Recent data indicate the chances of an anesthetic problem occurring are only one in 400,000 for patients in otherwise good health. Also, today's anesthetics are rarely associated with nausea. New drugs are available to treat nausea should it occur, Krechel says.

Krechel, who chairs the American Society of Anesthesiologists' committee on geriatric anesthesia, edited the country's first textbook on that topic and has studied the potential effects of several experimental drugs on the elderly. "Today, one-third of all health care goes to patients over the age of 65. This number will grow significantly in the next several years. I began studying anesthesia as it relates to senior citizens because they are a growing part of our society," Krechel says.

Anesthesiologists often use nerve blocks or place narcotics in the central nervous

system so the patient will have little pain after surgery. Patient-controlled analgesic devices, or PCAs, also are available. A PCA allows the patient to push a button and get an immediate dose of pain reliever, saving the patient from having to summon and wait for a nurse.

Krechel offers five pieces of advice to seniors:

- Discuss your treatment options with your physicians and nurses before the procedure is done.

- Be sure to ask what post-operative pain control methods are to be used.

- Your anesthesiologist's job is to ensure your pain will be minimal, but you should actively participate in your pain management. Push the PCA button when you have pain. Rate your pain on a scale of one to 10 to give your health professional a better idea of how to help you be pain-free.

- If you have experienced nausea and vomiting in the past, be sure to tell your anesthesiologist, who may want to prescribe specific drugs to keep that from happening again.

- Think positively. Don't be afraid to depend on others temporarily to supply your needs after your operation. You are expected to regain the same or better level of independence that you had before the operation.

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## Campus Computing

# Short Courses

The following non-credit short courses are offered at no charge to MU faculty, staff and graduate students unless otherwise noted. *Registration is required and is done on a first-come, first-served basis.* Participants may be enrolled in **no more than two courses** at one time. To enroll, please call 882-2000. *Note:* This is only a partial list; additional courses will be advertised in future issues of the *Mizzou Weekly*.

### FOUNDATION OF COMPUTERS

- 1: JANUARY 24 AND 26 (TUESDAY/THURSDAY), 1:30 - 4:30 PM
- 2: JANUARY 27 AND 30 (FRIDAY/MONDAY), 9:00 AM - NOON

Through lecture and hands-on exercises, the student will learn the fundamentals in both IBM and Macintosh platforms of computer hardware, what they do and how they function; different categories of software applications; terminology and basic computer manipulation; and disk and drive preparation for file management. The student will learn to interpret computer advertising and jargon to make educated decisions about purchasing and upgrading. The course will also include a discussion of how computers are linked together in networks through which they can share resources and information. The course concludes with a complete presentation of the University's computing facilities, training and where to get help.

### INTRODUCTION TO THE INTERNET

- 1: JANUARY 23 (MONDAY), 9:00 AM - NOON
- 2: JANUARY 24 (TUESDAY), 9:00 AM - NOON

Participants will be introduced to the history, development, and structure of the Internet, how it is linked together and how it functions. You will learn how to access, search and retrieve on-line resources using the basic protocols of email, Telnet, and FTP. You will also access and learn to use information-finding tools such as Gopher, Veronica, Archie, Mosaic, and Mosaic NetScape. Prerequisite(s): Foundation of Computers course (or basic hands-on experience with personal computers) and a MIZZOU1 ID.

### INTRODUCTION TO RICEMAIL

- 1: JANUARY 25 (WEDNESDAY), 9:00 AM - NOON
- 2: FEBRUARY 2 (THURSDAY), 9:00 AM - NOON

RiceMail is the software that makes it possible for you to communicate by email on the MIZZOU1 mainframe computer. In this course you'll learn how to compose, edit and spell-check email notes and send them to an individual or group of people. You'll also learn to organize your email by sorting it into notebooks, and time-saving methods such as using nicknames in place of full email addresses. Prerequisite(s): Foundation of Computers course (or basic experience with a microcomputer) and a MIZZOU1 ID are required prior to the beginning of class.

### CC:MAIL FOR DOS AND WINDOWS (NETWORK-BASED)

- 1: JANUARY 23
- 2: FEBRUARY 13

cc:Mail for DOS: cc:Mail training for the DOS platform is available through a network-based software program. Interested users can register for a hands-on, self-paced tutorial which they can access from their own computers. Topics covered include starting cc:Mail; reading a note; reading bulletin boards; addressing and sending messages; using the cc:Mail text editor; attaching items; importing text; using the spell checker and graphics editor; replying to and forwarding messages; and archiving and printing messages. A password will be issued to participants which gives them access to this self-paced tutorial for one (1) week from the start date. Prerequisite(s): A cc:Mail ID.



cc:MAIL FOR WINDOWS: Same description as above. A password will be issued to participants which gives them access to this self-paced tutorial for one (1) week from the start date. Prerequisites: A cc:Mail account.

### INTRODUCTION TO DIAL-UP CONNECTIONS

- 1: JANUARY 26 (THURSDAY), 9:00 AM - NOON
- 2: FEBRUARY 15, (WEDNESDAY), 9:00 AM - NOON

This course covers the big picture concerning MU's dial-up access (how to call a University computer from your office or home computer and modem). Goes into detail mostly on the PC side because of the extra complexity involved. If you're going to be installing a modem on a PC or clone, or just want a general "what's involved in dial-up on the MU Campus," this course is for you. Covers port assignments, IRQ's, line settings, etc. Does not specifically cover SLIP. Prerequisite(s): Foundation of Computers or basic hands-on experience with personal computers.

# Bangladeshi sheik comes to MU for unique surgery

**A**fter living with a painful and disfiguring bone tumor in his head for several years, 15-year-old Sheik Hamidul Aziz says his journey from Bangladesh to University Hospitals and Clinics was worth it.

On Oct. 17, surgeons Constance Barone and David Jimenez performed a dramatic five-hour operation in which they removed a protruding, but non-malignant, bone tumor in the front of Aziz's skull and reconstructed a new forehead to replace the damaged area.

"Not only was the growth awkward for Aziz, but it potentially could have blinded him," Jimenez says. "He also suffered from severe headaches because of pressure the growth applied to the brain."

The operation involved removing the tumor, along with much of the bone on Aziz's forehead and around his eyes. Next, the surgeons removed a section of bone from the back of his head and divided it into two layers. The outer layer was returned to the back of the head, and Barone took the other layer and sculpted from it a new forehead and the roof of both eye sockets. The sections were joined with miniature plates of titanium and tiny screws, which eventually will be covered by growing bone.

A few days after the operation, most of the swelling had subsided and the only visible clue to the surgery was a very thin strip of shaved head and stitches running across the top of his head from ear to ear.

"You need to be an artist, and you need to be precise," Barone explains. Fewer than 100 centers in the United States have such surgical teams. Jimenez and Barone, who trained with some of the world's top craniofacial surgeons in New York, came to MU in 1992. The pair is believed to be the country's only husband-and-wife craniofacial team.

The son of a business leader in the textile industry, Aziz first came to University Hospital and Clinics in January 1992 after developing the protruding bone growth on his forehead. Family friend Aminul Haque, an MU graduate student at the time, encouraged Aziz and his parents to seek a second opinion after doctors in Bangladesh diagnosed the growth as cancerous.

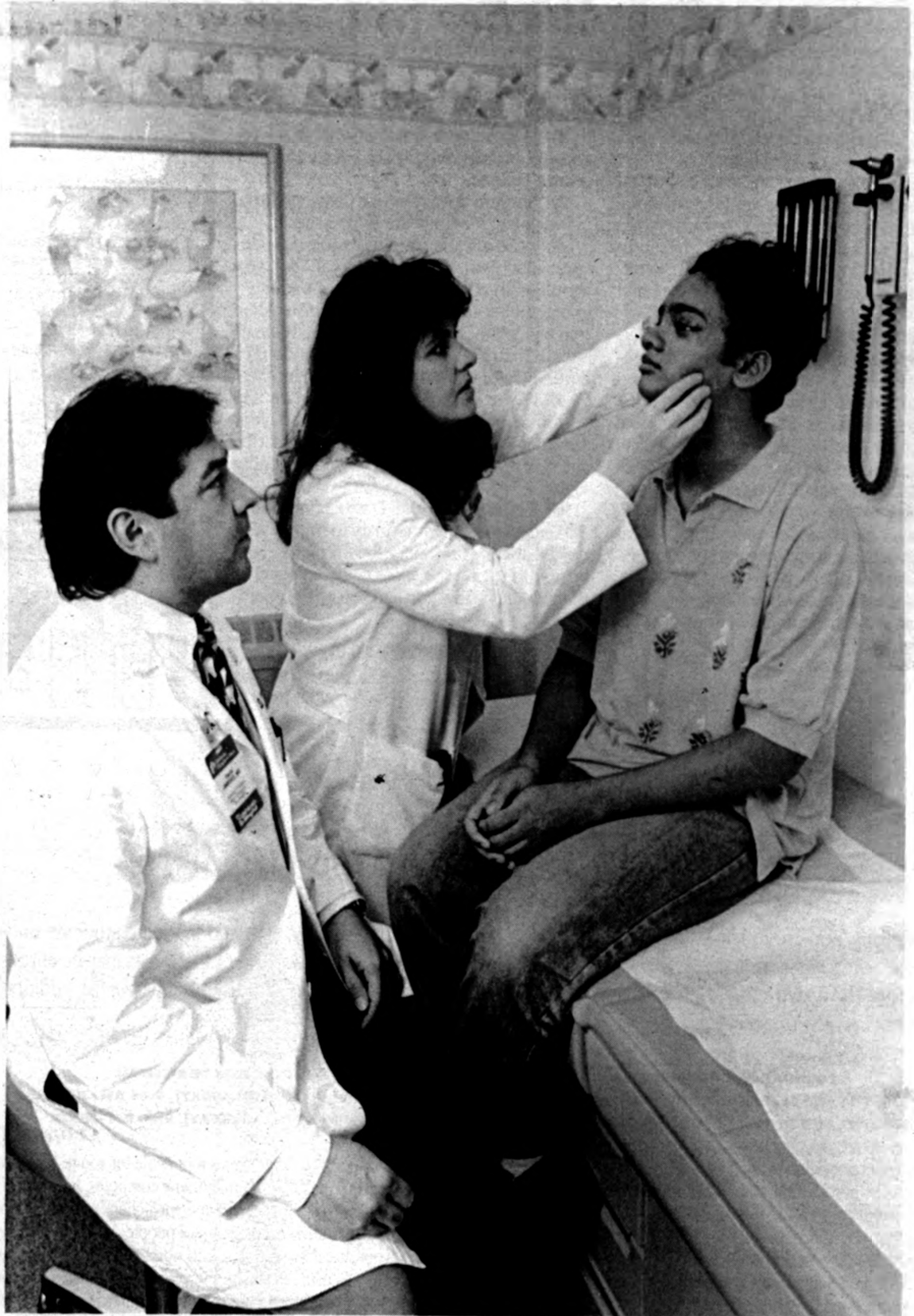
"We concluded that Aziz's condition was the result of frontal bone fibrous dysplasia, an abnormal growth of bone due to fibrous tissue growing inside the bone," says geneticist Judith Miles. "At that point, our advice was to monitor the tumor to see if it would continue growing or stop growing."

Thankful to learn that the tumor was benign, Aziz and his family returned to Dhaka, Bangladesh. But the tumor continued to grow, causing more pain and disfigurement. Concerned about the tumor's increasing size, the family this summer contacted craniofacial team member Lenworth Johnson, an MU neuro-ophthalmologist. Aziz came back to Columbia in October for further consultation.

Barone, a pediatric craniofacial plastic surgeon, and Jimenez, a pediatric neurosurgeon, agreed to perform craniofacial surgery.

The surgeons agree the biggest challenge of the surgery was rebuilding Aziz's face. They prefer to use a patient's own bone for the reconstruction over the common and less difficult practice of implanting plastic prosthetic replacements, which carry a risk of infection. The fact that they are a team with complementary skills makes such complex surgeries possible, Jimenez says.

"Our goal is to restore children who suffer from severe craniofacial disfigurement back to normal with today's technology," Barone says. "By



working together, we're able to combine our knowledge base."

Aziz was hospitalized for two weeks following the surgery and since stayed with Haque, who lives near Springfield. During a follow-up visit in early November, the doctors and the patient were all pleased with the results and the rapid recovery.

"I'm very happy," says Aziz, who was anticipating a return to Bangladesh in December. "The first thing I'm going to do is visit my best friends so they can see how I look."

Barone says Aziz's life will be more normal because he feels so good about himself. "Before the surgery, he wore his hair forward on his head. When we saw him following the surgery, he was wearing it back."

**Surgeons Constance Barone and David Jimenez examine Sheik Hamidul Aziz following surgery to remove a painful and disfiguring bone tumor. Aziz traveled from Bangladesh to be treated by MU's craniofacial surgeons.**

University Hospitals and Clinics photo

# Witness Excellence in Women's Athletics

*Best Wishes to these scholar-athletes  
at the Cat Classic, 7 p.m. Feb. 3 and 4*

*Arizona, Auburn, Kentucky, Penn State, Missouri, Pittsburgh*



**Call 1-800-CAT-PAWS for tickets**

*Members of the 1995 Gymnastics team.  
Top row, from left: Melisa Clark, Leah Hicks, Becky  
Neal, Lisa Akers, Chrissy Harkey, Beth Remillong and  
Amy Bowles. Second row, from left: Andrea Conner,  
Chanda Johnson, Rachel Byron, Kellie Copeland,  
Katie Sutter, Sarah Cooper, Jen Hillman (sitting) and  
Sara Alexander. Kneeling, from left: Amy Johnson  
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# 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.

**Q.** Like many MU staff members, I was concerned by reports last semester about a proposal to relocate some staff parking spaces from central campus to the commuter lots around Hearnes. I remember the campus parking committee was looking into it. Could you update us on this?

**A.** Throughout the fall semester, a campus-wide committee studied that issue. The group is scheduled to meet again next week, and at that meeting could make a recommendation on student parking to the campus parking committee.

Some background might be helpful: Early last semester, the MU student government senate passed a resolution that expressed several concerns about student parking on campus. Part of the resolution suggested

that campus administrators explore the possibility of shifting some staff parking from garages and parking lots in the heart of campus to commuter lots around the Hearnes and Trowbridge centers. The matter was referred to the parking and transportation committee, which appointed a special campuswide group to look into the matter. The group is made up of students, faculty and staff, and met frequently last semester, says Cathi Veach, who headed up the subcommittee. "We are now taking the proposal apart and looking more at the overall problem of parking shortages and possible solutions," she says.

Veach, human resource specialist I in Human Resource Services, said the group has heard details on a number of student concerns, including security, frequency of

the shuttle service, and the need for more parking for students in residence halls. Members also compared MU's student parking system with the situation found on more than 20 other campuses.

The initial focus on changing staff parking assignments has shifted to a search for more long-range solutions, Veach says. "We're not looking at that as much as we're looking at long-term increased parking for students and everyone else."

**Q.** I would like to tell a colleague in Germany the complete number to dial to telephone me or to fax messages to me here at MU. I have gotten three different answers from three different operators. Would you please see what you could find out for me?

**A.** Unfortunately, *Mizzou Weekly* may not be able to provide much more help. "There's really no universal answer," says Warren Mayer, senior information specialist with MU Telecommunications. "Every country has its own unique method to get calls out of the country," Mayer says. "There are different phone companies, different dialing procedures and different billing methods."

The best thing you can do is give German colleagues your local area code and phone number, Mayer says. "Then they need to call their local phone company and say, 'How do I do this?'"

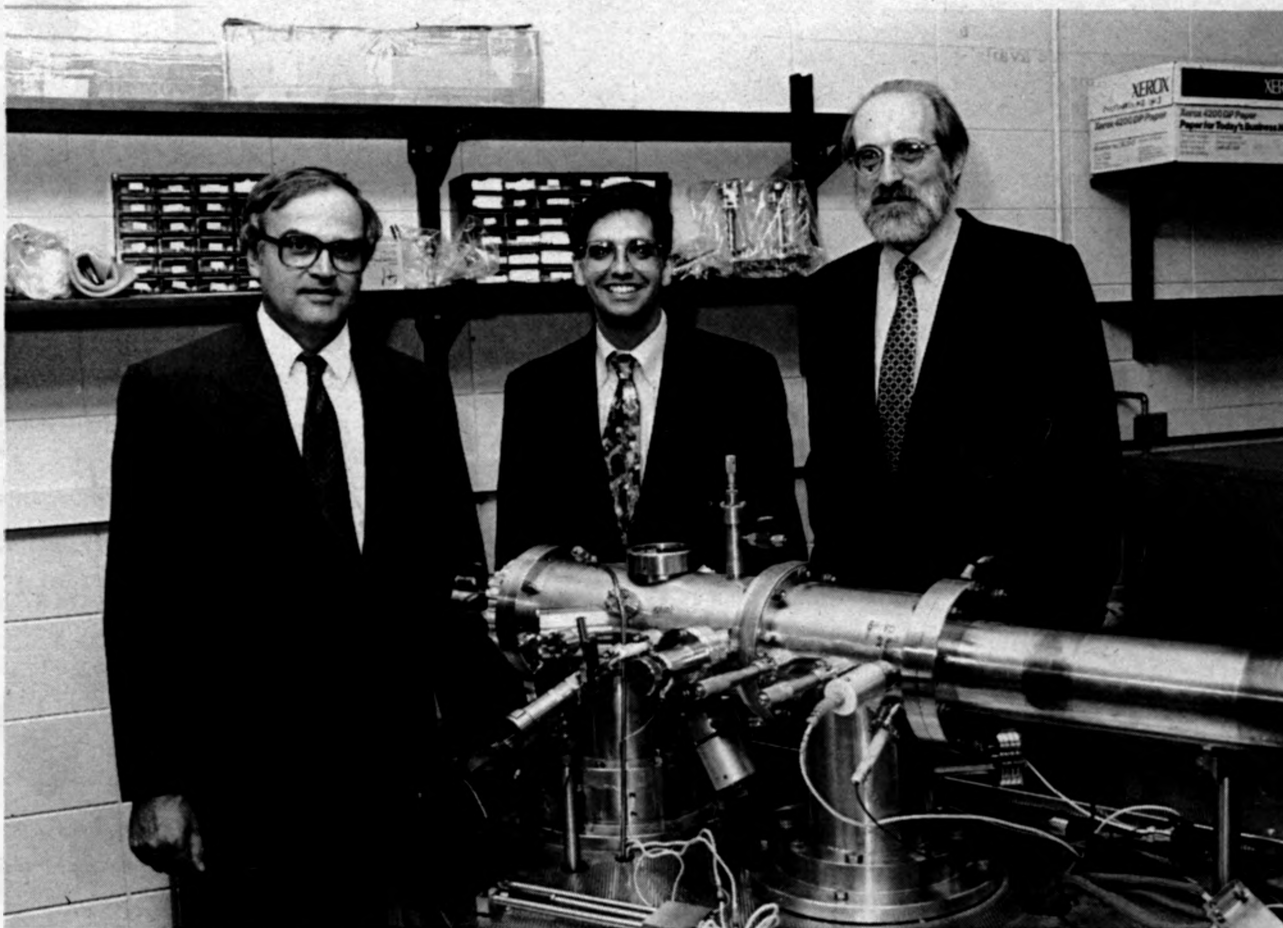
As a side note, Mayer adds that international faxing is one of the things Mizzou faculty and staff have the most trouble with. There's often a simple remedy, he says. Be sure to enter pauses in your dialing sequence whenever you send a fax using a University-issued number. Dial 7, then pause one second. Dial the six-digit WATS code, then pause two seconds before dialing the area code and the number. "Most people don't put those pauses in and the switch needs them in order to process the call correctly," Mayer says.

(Editor's note: The Q&A column in the Dec. 8 issue of *Mizzou Weekly* responded to a question about the trees that surround Francis Quadrangle. A reader asked if the trees currently on the Quad were planted to replace others damaged during a devastating ice storm during the winter of 1948-49. Photographs of the Quad taken during that storm show many ice-coated trees with broken limbs. Q&A reported that recent core samples taken from trees on the Quad indicated that most of the existing pin oaks were planted around 1955. That response prompted a first-person account from another reader.)

A.G. Unklesbay, professor emeritus of geological sciences, provides this recollection of the terrible ice storm that struck central Missouri during the winter of 1948-49, early in his career at MU:

"It started raining and snowing two days before Christmas and kept it up all through Christmas and New Year's week, Unklesbay recalls.

People skated up and down Broadway on two inches of ice. Rural Boone County and outlying sections of Columbia were without electricity for as long as a month. Hotels in town were filled for weeks with weather refugees, he says. "It was one awful mess, I can guarantee that." Unklesbay remembers that the elm trees that rimmed the Quad were severely damaged. After the storm, many of the trees were removed or pruned back, he says. "During the next summer, the Quad was full of cut-down trees."



Monsanto chemist Darrell Fee, left; associate professor Michael Greenleaf and Jerry Atwood, chairman of chemistry at MU, try out the mass spectrometer.

Photo courtesy of Academic Support Center

## Expanding the research spectrum

MU chemistry researchers will be able to upgrade their efforts in studies that range from electronic materials analysis to exploring DNA processes, thanks to a major equipment donation from Monsanto Co.

The St. Louis-based Monsanto recently donated a high-resolution mass spectrometer to the Department of Chemistry. Valued at \$310,000, the six-year-old mass spectrometer allows state-of-the-art analyses to be performed within the department. That advance benefits the work of several researchers and students, says Michael Greenleaf, associate professor of chemistry.

The spectrometer will enable Mizzou scientists to study the formation of molecular ions and measure more precisely the mass of molecules. Greenleaf plans to use the high-resolution instrument to develop better methods of detecting impurities in electronic circuits.

"Having this spectrometer in the department is a major asset," Greenleaf says. "We are grateful to Monsanto for this donation because the cost of a new comparable mass spectrometer is about \$1 million, which is prohibitive." The company also donated a particle-size analyzer, several gas chromatographs and a gamma counting system.

MU's chemistry department previously relied on a spectrometer facility at the University of Nebraska to perform high-resolution mass analysis. Although there is currently a mass spectrometer laboratory on campus, the instrument is not powerful enough for some of the department's research. The newly donated equipment has more power, mass range and resolution.

Monsanto donated the spectrometer and other equipment to MU at the suggestion of Darrell Fee, a Monsanto chemist and MU alumnus. "Monsanto is downsizing, so there was surplus equipment available," Fee says. "It was a natural fit to give it to a university in our backyard. MU doesn't get enough funding for equipment needs."



# FOR THE RECORD

The 'For the Record' column gives MU departments and units the opportunity to advertise used or unneeded equipment for sale. There is no charge for this service. Send your notice to John Beahler at 407 Reynolds Center, or call 882-5918.

**MIZZOU WEEKLY INADVERTENTLY RAISED SUSPICION** about the eating habits of Associate Professor David DuBois in its Dec. 8 issue. We should have said a \$900,000 federal grant, received by food science and human nutrition specialists, would be used to provide nutrition education to food stamp recipients. Instead, we said DuBois was to be educated. We apologize for the error.

**INTERNATIONAL STUDENTS ARE ENCOURAGED TO APPLY** for Curator Grants-in-Aid, available now in the Office of International Student and Scholar Services as well as the International Center. The grant-in-aid for graduate students provides payment of resident fees for nine credit hours and a waiver of all non-resident fees. Undergraduate grants pay fees up to a total of 14 credit hours of resident and non-resident fees. Application deadline is April 4. Call the ISO (882-8148) or the IC (882-6007) for more information.

**LEARN TO ENJOY PUBLIC SPEAKING.** The Staff for Life Toastmaster's Club welcomes University and Veterans' Administration staff to a meeting from 4 - 5 p.m., Jan. 19, in Room 1W19 of University Hospital. Call Lynne Hedrick (882-4865) or Vickie Stokes (882-2239) for more information.

**UNIVERSITY HOSPITAL OFFERS WATERWORKS**, a water aerobics program, from 5:50 to 6:30 p.m. on Tuesdays and Thursdays at Wilson's Total Fitness. The exercise offers the health benefits of land aerobics, while letting you control the level of workout intensity, stay cool and spare your joints. Three-, six- and 12-month cards are available at reasonable rates. Call Education and Training (882-4162) for more information.

**NEW MEDICATION FOR THE TREATMENT OF PANIC ATTACKS** is the focus of a study conducted by the Division of Psychiatry. Participants must meet these criteria: age 18 to 65; experience at least two or three panic attacks within two weeks of screening; recurrent unexpected panic attacks in which four or more of the following symptoms develop and peak within 10 minutes:

- racing or pounding heartbeat or chest pressure
  - shortness of breath or sensation of smothering
  - sweating, hot flashes or chills
  - fear of dying or doing something uncontrolled
  - trembling, shaking, numbness or tingling sensations
  - feeling dizzy, unsteady, light-headed or faint
  - feelings of nausea or abdominal discomfort.
- For more information, call 882-0408.

**DEADLINE FOR STAFF DEVELOPMENT AWARDS IS NOON, FEB. 1.** The awards foster staff professional development by funding for conferences, workshops and other short-term experiences. Individual awards are limited to \$3,500; group awards are limited to \$7,000. Winners are selected by a campuswide committee of staff and will be notified by March 1. Funds will be available March 15. Application forms and award guidelines have been mailed to eligible staff. Volunteers are available to help prepare applications. With questions, call the MU Staff Advisory Council office at 882-4269.

**ADDITIONAL LISTINGS HAVE BEEN ADDED TO UMINFO**, which provides on-line access to UM System policies and information. The new listings include the Cashier Operations Manual and a listing of employment opportunities by campus. UMINFO also contains the UM Business Policy Manual, UM Personnel Policy Manual, travel services, computer-related volume purchase agreements and Registered Minority/Women Vendor Directory. Procedures for accessing UMINFO differ by campus. For instructions, call the MU help desk at 882-5000. For University Hospital and Clinics, call 882-1063.

## MIZZOU WEEKLY

Vol. 16 No. 16

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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### MU/Stephens Faculty Workshop "WOMEN IN INTERNATIONAL AFFAIRS"

May 15 -19 and May 22-26, 1995  
Columbia, Missouri

**\$1,000 STIPENDS AVAILABLE  
APPLICATION DEADLINE  
EXTENDED TO:**

**JANUARY 23, 1995**

For more information or to receive an application, please call the International Center at 882-6007.

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(pronounced as kou or cow)



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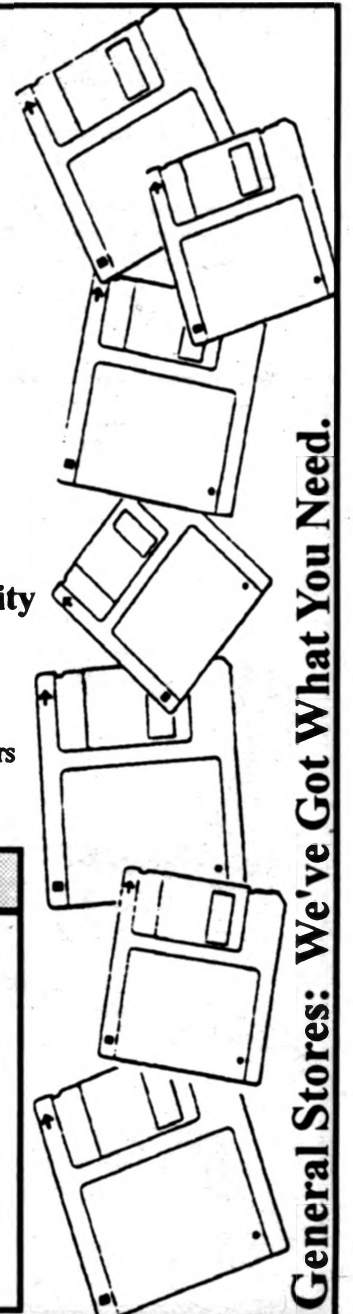
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General Stores: We've Got What You Need.

### PANIC ATTACK TREATMENT

The University of Missouri - School of Medicine, Division of Psychiatry is conducting a study of a new investigational medication for the treatment of panic attack. Qualifying participants need to meet the following criteria:

- \*Age 18-65 years
- \*At least 2-3 panic attacks within the 2 weeks immediately preceding screening
- \*Recurrent unexpected panic attacks in which 4 or more of the following symptoms develop suddenly and reach a peak within 10 minutes

- Racing and/or pounding heartbeat or chest pressure
- Shortness of breath or a sensation of smothering
- Feeling dizzy, unsteady, light-headed or faint
- Trembling, shaking, numbness, or tingling sensations
- Sweating, hot flashes, or chills
- Nausea or abdominal discomfort
- Fear of dying or doing something uncontrolled

If you or someone you know is interested in this study or would like more information, please call (314) 882-0408.

# 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.

## Courses

### Thursday, Jan. 19

**NURSING EXTENSION:** "Clinical Pharmacology for Advanced Practice Nurses in Primary Care" will be offered Jan. 19-May 11 in Room S248 MU School of Nursing. Call 882-0215.

**UNIVERSITY EXTENSION:** "Clinical Pharmacology" will be offered on Thursdays from 5-7 p.m. Jan. 19-May 4. To register, call 882-3598.

### Friday, Jan. 20

**ENGINEERING EXTENSION:** "Life-Cycle Cost Analysis" will be offered Jan. 20-21 in W1000 Engineering Building East. Cost \$330. Call 882-3001.

### Monday, Jan. 23

**CHILDBIRTH CLASSES:** "Beginning Childbirth" will be offered from 7-9 p.m. through Feb. 27 in the seventh-floor classroom at Ellis Fischel Cancer Center. Cost: \$45. To register, call 882-6973.

**UNIVERSITY EXTENSION:** The following evening courses will be offered this semester. The courses begin today and run through May. To register, and for information about the cost, call 882-3598. "Photographing the Human Form," Mondays from 7-10 p.m. in A103 Fine Arts.

"Creative Writing: Fiction—Ghost Stories," Mondays from 6-9 p.m. in 308 Middlebush.

"Banquet & Catering Management," Mondays from 4-6:45 p.m. in 111 Eckles Hall.

"Beginning Classical Guitar" Mondays and Wednesdays from 6:30-7:20 p.m. in 146 Music Building.

### Tuesday, Jan. 24

**UNIVERSITY EXTENSION:** The following evening courses will be offered this semester. The courses begin today and run

### Wednesday, Jan. 25

**ENGINEERING EXTENSION:** "Advanced Hazardous Waste Management" will be offered Jan. 25 in Kansas City. Call Virginia Nettleton at 882-2087.

through May. To register, and for information about the cost, call 882-3598.

"Studio Photography," Tuesdays from 7-10 p.m. in A103 Fine Arts Building.

"Genetics and Human Affairs," Tuesdays from 7-9:30 p.m. in 1 Tucker Hall.

"Research Methods in Human Development & Family Studies," Tuesdays from 4-6 p.m. in 228 Stanley Hall.

"Statistical Analysis," Tuesdays from 4:30-7:30 p.m. in 209 GCB.

**UNIVERSITY EXTENSION:** The following evening courses will be offered this semester. The courses begin today and run

through May. To register, and for information about the cost, call 882-3598.

"Vertebrate Physiology" will be offered Jan. 25-May 11 in 106 Lefevre Hall.

"Child Life Administration," Wednesdays from 6-8:30 p.m. in 228 Stanley Hall.

"Adulthood and Aging," Wednesdays from 6-8:30 p.m. in 209 Gwynn Hall.

### Thursday, Jan. 26

**ENGINEERING EXTENSION:** "Environmental Risk Management" will be offered Jan. 26 in Kansas City. Call Virginia Nettleton at 882-2087.

**UNIVERSITY EXTENSION:** "Working With Parents" will be offered Thursdays from 6-8:30 p.m., Jan. 26-May 11, in 228 Stanley Hall. To register, and for information about the cost, call 882-3598.

## Exhibits

**BINGHAM GALLERY:** The gallery, open from 10 a.m.-4 p.m., Monday-Friday, is in the Fine Arts Building.

**BRADY COMMONS GALLERY:** The gallery, located in 203 Brady Commons, is open from 10 a.m.-5 p.m. Monday-Friday.

**MUSEUM OF ANTHROPOLOGY:** The museum, located in Swallow Hall, is open from 9 a.m.-4 p.m. Monday through Friday.

**MUSEUM OF ART AND ARCHAEOLOGY:** The museum, in Pickard Hall, is open from 9 a.m.-5 p.m. Tuesday through Friday; 6-9 p.m. Thursday; and noon-5 p.m. Saturday and Sunday.

**ROGERS GALLERY:** The gallery, located in 142 Stanley Hall, is open from 8:30 a.m.-4 p.m. Monday through Friday.

**STATE HISTORICAL SOCIETY:** Edward S. Curtis' *The North American Indian* will be on display in the gallery through March 15. Carl Gentry (1888-1976) Oils and Watercolors will be on display in the corridor through March 15. Decades: 1894-1964 Editorial Cartoons are also on display in the corridor. 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.



## Lectures & Seminars

### Thursday, Jan. 19

**SATELLITE WORKSHOP:** "Institutional Effectiveness and the Classroom" will be offered from 2:00-3:30 p.m. in 113 Gentry. Sponsored by the Campus Writing Program and the Provost's Office. Call 882-4881.

### The UN at 50: Celebrating Diversity

The UN at 50 Celebration Steering Committee is developing a calendar of local events for 1995. If you know of any international or UN-related events scheduled for 1995, please let us know so they can be included in the UN Celebration Calendar. Contact John Heyl in the International Center, 208 Lowry Hall, 882-6007.

**University Hospital & Clinics**  
*The Staff for Life*

# Art Auction

Exhibition — 6 p.m.

Auction — 7 p.m.

Saturday, Jan. 28

Columns Room

Donald W. Reynolds Alumni Center  
University of Missouri-Columbia

9th Annual Art Exhibition and Auction is presented by Staff Council at University Hospital and Clinics.

\$1 donation per person to benefit Children's Miracle Network.

For more information, call 882-1008.



## Meetings

**Thursday, Jan. 19**

**FACULTY COUNCIL:** Meeting will be held at 3:40 p.m. in S110 Memorial Union.  
**S.H.A.R.E SUPPORT GROUP:** Meeting will be held at 7 p.m. at Ellis Fischel Cancer Center. For information, call 882-3324.  
**HEARTS FOR LIFE:** Meeting will be held at 7 p.m. in the Main Street Conference Room at University Hospital and Clinics. For information, call 882-1081.

**Friday, Jan. 20**

**BOARD OF CURATORS:** The Physical Facilities Committee of the UM Board of Curators will meet at 10 a.m. at 321 University Hall to discuss agenda items for the Jan. 26-27 meeting of the full board in St. Louis.

**BOARD OF CURATORS:** The Finance Committee of the UM Board of Curators will meet at 11 a.m. to discuss — but not act upon — the student educational, activity and room and board fees for 1995-96. The committee will discuss selection of an investment banker for University Hospital debt as well as issues related to the University's retirement fund.

**Wednesday, Jan. 25**

**WOMEN'S NETWORK:** George Faler, Jr., Charter Hospital of Columbia, will present "Does Your Family Provide Survival, Safety and Security?" from 12:00-1:30 p.m. in S203 Memorial Union.

## Special Events

**Tuesday, Jan. 24**

**VISION AND HEARING SCREENINGS:** University Hospital and Clinics will offer vision and hearing screenings from 9 a.m. - noon and 4-6 p.m. at the Health Information Center in Columbia Mall. For information or to make an appointment, call 882-6565.

## Sports

**Thursday, Jan. 26**

**MEN'S BASKETBALL:** Tigers meet Colorado at 7 p.m. at the Hearnes Center. Cost: \$9 for general admission.

## Faculty/Staff FITWELL

Winter 1995

*FITWELL - a comprehensive wellness program for MU faculty & staff members*

- \* Pre- and post-program body composition, flexibility & resting blood pressure assessment
- \* Individualized exercise programs
- \* Supervised exercise sessions (13-week program)
- \* Dietary consultations
- \* Nutrition education
- \* Stress management education
- \* Personal goal-setting guidance
- \* AND MUCH MORE!

Choose among three sections:

6:15 - 7:15 am MWF

Noon - 1:00 pm MWF

5:15 - 6:15 pm MWF

Program runs January 23 - May 2

(No classes March 13 - 17)

Cost - ONLY \$50 plus SRC user fees; returnees cost only \$30.

Register in 320 SRC. Participation limited; register early.

For more information call Janet, 882-0705.

Registration deadline: January 20, 1995

MU Recreational Services 320 SRC 882-2066 Student Affairs



**Saturday, Jan. 21**

**TEEN FORUM:** "The Role of the Post-Cold War Military" will be discussed from 7-9 p.m. at "Speak Your Mind" a teen forum in the Columbia Mall Community Room.

**Wednesday, Jan. 25**

**PHYSIOLOGY SEMINAR:** John Solaro, professor of physiology and biophysics, University of Illinois-Chicago, will present "Molecular Control Mechanisms Regulating Contraction of Cardiac Myofilaments" at 2:40 p.m. in M437 Medical Sciences Building. Refreshments will be served at 2:20 p.m. in M436A.

**Thursday, Jan. 26**

**LUNCHTIME CONVERSATIONS ABOUT WRITING:** Craig Israelsen, assistant professor of consumer and family economics, will present "Use of Student Journals: Pros and Cons" from 11:45-12:45 a.m. in 325 GCB. For information, call 882-4881.

## Parking & Transportation Services

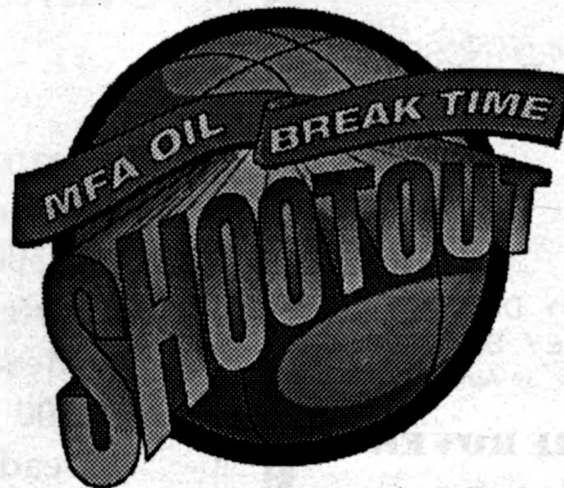
Turner Ave. Garage, Level 2  
882-4568

### Maryland Avenue Garage construction update:

75 percent of the excavation has been completed and 40 percent of the foundation is in place.

Of the 1,600 precast panels that will make up this garage, 250 are already manufactured and will be shipped from factories in St. Louis and Omaha in early spring.

## Don't Miss High School Basketball At Its Best At The SECOND ANNUAL



Saturday, January 21, 1995  
at the Hearnes Center

- 1 p.m. Helias Crusaders vs. Sedalia Smith-Cotton Tigers
- 3 p.m. Jefferson City Lady Jays vs. Springfield Catholic Lady Irish
- 5 p.m. Jefferson City Jays vs. Kansas City Central Eagles
- 7 p.m. Columbia Hickman Kewpies vs. Rock Bridge Bruins
- 9 p.m. Southern Boone Eagles vs. Hallsville Indians

**ALL TICKETS \$5.00**

Tickets Available at the Hearnes Center, Break Time Stores and participating schools

Proceeds Benefit the Show-Me STATE GAMES

## MU receives \$3 million grant to continue TRUMP-S

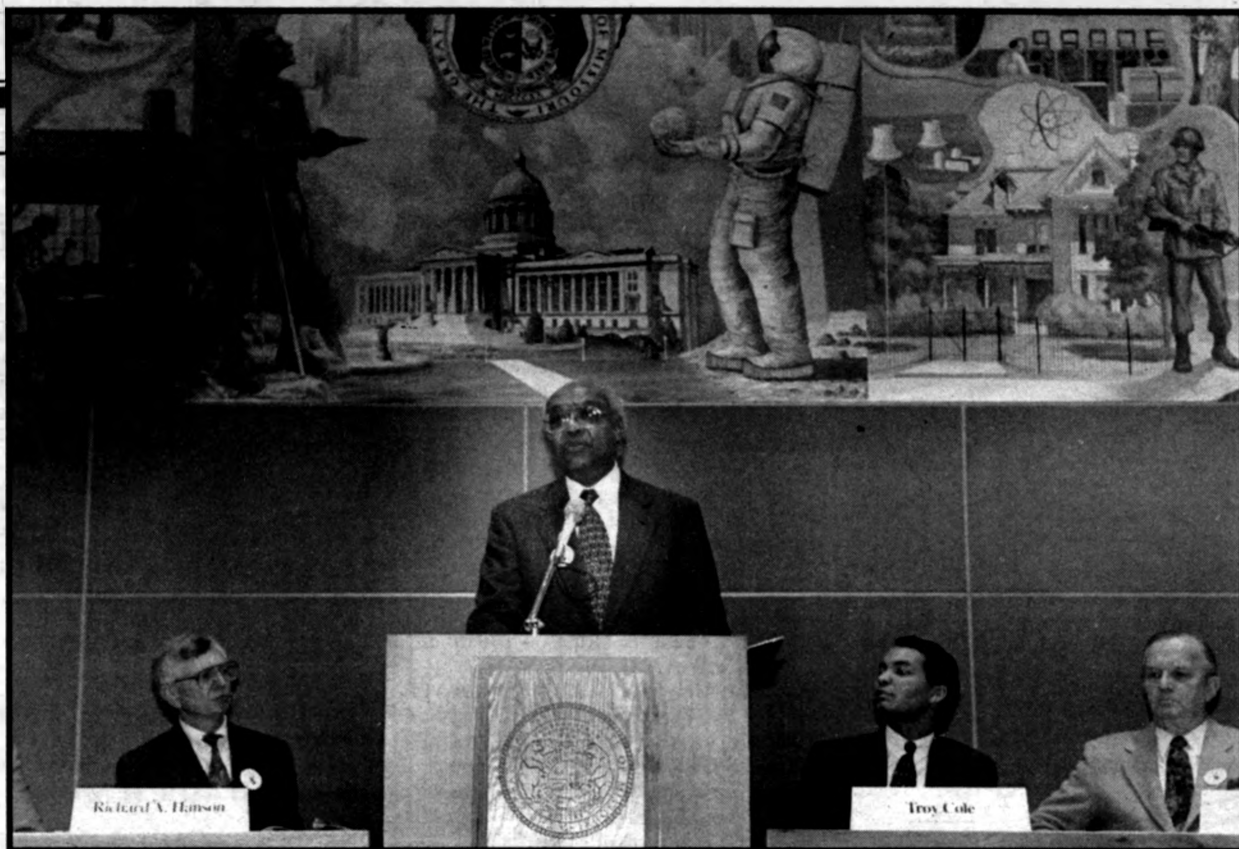
Rockwell International has awarded Mizou investigators a grant of more than \$3 million to continue its TRansUranic Management by Pyropartitioning Separation project, also known as TRUMP-S.

"Rockwell is satisfied with the work we've done so far, and we are encouraged by that and determined to take this research to the next level," says Truman Storvick, professor of chemical engineering and the project's principal investigator.

TRUMP-S applies basic chemistry and chemical engineering research to the development of safer and more efficient disposal methods for spent nuclear fuel. The goal is to develop the technology to separate the uranium, neptunium, plutonium and americium — with half-lives ranging from hundreds to millions of years — from the fission products with shorter half-lives found in spent nuclear fuel.

"This might provide a solution to the spent fuel currently accumulating in nuclear power plants in the U.S. and other countries," Storvick says.

The interdisciplinary project began in 1990 and involves the College of Engineering, the Chemistry Department and the MU Research Reactor. Master's and PhD students participate in the research.



## Strickland initiates 1995 King birthday celebration

Martin Luther King Jr. was not just sharing a dream when he delivered his now-famous speech in August 1963. Instead, says Arvarh Strickland, he was articulating an ancient faith in black Americans. "He was expressing the continuously renewing hope of African Americans that the nation would take another step toward becoming a truly democratic society."

Strickland, MU professor of history and interim director of black studies, delivered the keynote address Jan. 12 in Jefferson City, kicking off central Missouri's 1995 King birthday celebration. He told an audience of nearly 200 that some have come to perceive this faith as naive and simple. "But this is not what African-American history teaches me. Dr. King was not just a dreamer with blind faith. He, like the builders of the American republic and like the generations of African-American leaders before him, placed his life, his fortunes and his sacred honor in the service of a cause. He, like the generations before him, not only worked to move the nation toward living up to its creed, he helped to breathe new life into that creed. He reminded us that we are dealing in absolutes, and there can be no compromise for basic values."

Rob Hill photo

**It's not too late to get grrreat seats for:**

**RED NOSES**  
Feb 9-11/16-19

**P.S. YOUR CAT IS DEAD**  
Feb 23-25/Mar 2-5

**NOBODY DOESN'T LIKE HARVEY SCHWARTZ**  
Mar 30-Apr 1/6-9

**THE ROVER**  
Apr 20-22/27-30

For Tickets Call the  
**Rhynsburger Theatre**  
Box Office at

**882-PLAY**

MU Department of Theatre

## MU Faculty International Seminars Summer 1995

### Mexico

- ◆ Spanish-Language study/refresher (Cuernavaca) May 19 - June 10. \$1,500
- ◆ Professional contacts at UNAM (Mexico City) June 10 - June 17, 1995. \$300  
Deadline: February 1, 1995
- ◆ Informational Meetings: January 19 & 25, 4:00 p.m., S303 Memorial Union.



For information and applications, contact the International Center, 208 Lowry Hall (882-6007)

**MIZZOU**  
WEEKLY

Publications and Alumni Communication  
407 Reynolds Alumni and Visitor Center  
Columbia, MO 65211

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Date captured                              July-December, 2022  
Scanner manufacturer                      Plustek OpticBook  
Scanner model                                A300 Plus  
Scanning system software                Book Pavilion  
Optical resolution                          600 dpi  
Color settings                                8 bit grayscale for majority of pages;  
    24 bit color for color illustrations/portraits/photographs  
File types                                      tiff  
Notes

### Derivatives - Access copy

Compression                                Tiff: LZW compression  
Editing software                            Adobe Photoshop 2022  
Resolution                                    600 dpi  
Color    same as captured  
File types                                      pdf created from tiffs  
Notes    Images cropped, straightened, and brightened.