

# MizzouWeekly

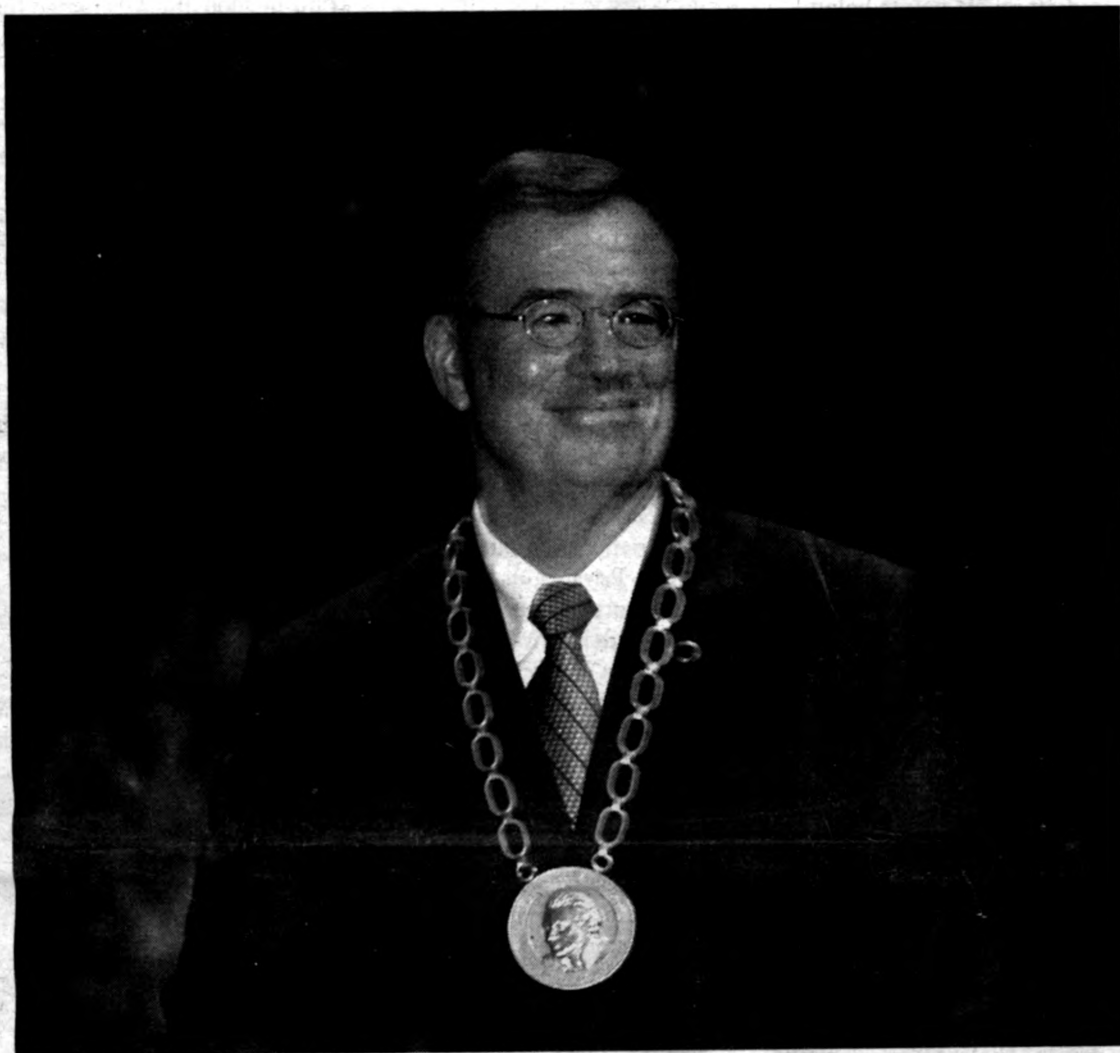
**Online Relief**  
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**Sept. 22, 2005**  
University of Missouri-Columbia



Steve Morse photo

**CELEBRATING LEADERSHIP**

At the Celebrate Mizzou fall convocation Sept. 16, the Jefferson Club, MU's premier donor group, presented Chancellor Brady Deaton with the inaugural Jefferson Medallion. The medallion recognizes the University's historic and philosophic ties to Thomas Jefferson and his dedication to public higher education. Deaton and future MU chancellors will wear the medallion on formal occasions.

## 'Capture the pride'

**CELEBRATE MIZZOU**

Chancellor Deaton calls on MU to become a 'destination university'

**A**t the Sept. 16 fall convocation to celebrate Mizzou's accomplishments, Chancellor Brady Deaton pledged that his administration and the campus will work to make MU a "destination" university that attracts, retains and nurtures the best students, faculty and staff.

Deaton compared that commitment to the excitement of discovery that Lewis and Clark's expedition felt as they journeyed west.

"Today, our campus is deeply immersed in the process of defining and shaping a destination university for the 21st century, realizing that destination must lead to new frontiers of learning and discovery of new vistas of beauty and inspiration that stir our minds and spirits, that lure us toward new challenges and new opportunity," Deaton said.

"The total sum of all that happens at this university must inspire students

and faculty to explore the frontiers of knowledge and uncompromisingly search for truth," he said. "This is a global challenge and requires global partnerships."

Deaton made his remarks last Friday at Celebrate Mizzou!, an event that filled Jesse Auditorium with members of the MU community and featured readings and musical performances that celebrated Mizzou's past, present and future.

Darlene Johnson, an alumna who is national chair of the Jefferson Club, MU's premier donor group, presented Deaton with the inaugural Jefferson Medallion, which recognizes the University's historic and philosophic ties to Thomas Jefferson and will be worn by Deaton and future MU chancellors on formal occasions.

Earlier in the day, officials gathered for the unveiling of a donor recognition wall in the south entrance of Jesse Hall. The wall bears the names of donors at the Jefferson Club Ambassador level who have supported Mizzou during its campaign. Celebrate

**SEE CELEBRATE on Page 3**

## Taking it to the next level

**SUCCESS STORY**

Mizzou campaign aims at new \$1 billion goal

**M**U has joined an exclusive group of universities striving to raise \$1 billion. Volunteer leaders made the announcement last Friday to faculty, staff, students and alumni who were gathered for Celebrate Mizzou, an event to recognize Brady Deaton as MU's new leader, share a vision for the future and celebrate the success of the For All We Call Mizzou campaign.

"This truly is a historic day for the University of Missouri-Columbia," Chancellor Deaton said. "We began the For All We Call Mizzou campaign in 1999 to strengthen Missouri's

flagship university by seeking support for students, faculty, programs and facilities. We have witnessed firsthand the incredible generosity of our supporters as they invested in Mizzou's future. We have demonstrated the great strength of the public-private partnership and will now take it to the next level."

The primary focus in establishing the new goal, which officials expect to achieve by the end of 2008, is to bolster support for students and faculty, officials said.

MU is the 26th public university in the nation to engage in a \$1 billion campaign, a list that includes the universities of Michigan and Michigan State, as well as North Carolina, Iowa, Purdue, Texas A&M and UCLA.

The announcement to increase

the goal to \$1 billion came after leaders announced the campaign had surpassed its original goal of \$600 million by \$3 million.

Two gifts put the fundraising campaign over the top. Russell and Mary Shelden gave \$2.3 million to the School of Medicine for a clinical simulation center. George Ashley gave \$1 million to the School of Law to enhance the law library.

"We are confident we will achieve this new goal of \$1 billion," said Bill Thompson, campaign co-chair and a 1968 MU engineering graduate. "This is something this University must do. It is very important to us that Mizzou remains affordable to students today and tomorrow, particularly in this environment of economic uncertainty."

"This campaign already has benefited students tremendously. Increasing the goal is necessary

FOR ALL WE CALL

# MIZZOU

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**Raised: \$603 million**

**Goal: \$1 billion**

so that MU can continue to achieve its vision and its mission," Thompson said. "We are committed; we are passionate, and we will be successful."

Larry McMullen, also a campaign co-chair and a 1959 MU law graduate, noted that meeting the campaign's initial goal didn't happen by chance,

but was the result of hard work by everyone involved.

"If MU is to continue as Missouri's premier public research university and a major economic engine, then we must be able to recruit and retain the best faculty in the country," McMullen said. "And we intend to do just that."

**State review includes higher education**

The Missouri Government Review Commission, appointed earlier this year by Gov. Matt Blunt, met Sept. 15 in Columbia. They worked on resolving outstanding issues and began voting on proposals submitted to the full commission by its individual working groups. One of those working groups has been studying ways to streamline education.

Among the proposals applicable to higher education

is the creation of a cabinet-level position of secretary of education, appointed by the governor and having the authority to recommend a higher education budget to the governor. The commission also proposes changing the makeup of the Coordinating Board of Higher Education, which currently is made up of lay members. The newly constituted coordinating board would include two representatives from the University of Missouri; two from other four-year

institutions; one from a private institution; two from community colleges; and two lay citizens.

Other proposals include a recommendation to study the desirability of bringing all state retirement and health care programs, including those of higher education institutions, under one new agency to be located in the Office of Administration. The approved items will go into a draft report before being finalized. The commission will likely finish its work this fall.

**UM System consolidates communications office**

University of Missouri President Elson Floyd has appointed veteran Associated Press journalist Scott Charton to serve as director of university communications for the UM System. This reorganizes and consolidates the department formerly known as University Relations, as well as marketing and Web services. These functions will now include the University's Web-based communications, print

and electronic media relations, television and radio production, publications, and national and international marketing.

Charton, 44, has spent 22 years as a journalist for The Associated Press and has been on sabbatical from the AP since April of this year. His tenure at the AP included six years in the Little Rock bureau and a dozen years as correspondent in charge of the Missouri Statehouse bureau in Jefferson City. In 2000, the AP created for Charton the role of roving

# Tried and true

**IT'S MY MIZZOU**

**MU faculty and staff support vital programs with their gifts**

**E**meritus professors V. James Rhodes and wife Verna Adwell Rhodes are a true Mizzou couple. While both retired in 1995 — he from agricultural economics and she from nursing — they have continued their involvement with the University and, collectively, have amassed more than 70 years of academic service.

The Rhodes' generosity has not stopped there. The couple recently contributed funds for a new endowment — their third — to the Sinclair School of Nursing. Their hope is that this latest donation will

encourage more nurses to pursue careers in academe. "There is a definite shortage of nurses and particularly of faculty," Verna Rhodes says. "Unless you have qualified faculty, you are not going to get qualified nurses. We thought there should be some funds to encourage individuals to go into nursing education on a PhD level with plans to go into a faculty position, preferably in oncology nursing."

The Rhodes' two previous endowments were created to give students and faculty opportunities to live and learn in a global environment. One of these provides a travel fund allowing nursing students in any stage of their education to explore international studies and research. The other

is a research endowment allowing tenured faculty in nursing to expand research activities among international populations, generally in the area of health restoration.

"The international movement among faculty and students has increased dramatically in the past two decades, and the ability to collaborate with colleagues around the world is paramount to any research project," Verna Rhodes says. "So much can be done through technology and especially with e-mail, but we need to have ways to connect personally before we can do much in the area of research."

These endowments were not the beginning of the Rhodes' giving to the University. Over the years, they have made annual contributions to various programs on campus. Verna Rhodes offers up a simple

reason for their continuous investment in Mizzou's future: "We give to maintain a pattern of excellence in teaching and opportunity for students," she says. "Scholarships are extremely important, especially at a time when the student population and education costs are rising."

Such scholarships gain added importance as the University's share of state appropriations continues to dwindle. Private gifts help make up the shortfall, providing vital resources to help MU continue its tradition of excellence in teaching, research and service.

Hundreds of faculty, staff and retirees like the Rhodes are supporting MU's scholarships, facilities and other programs through It's My Mizzou: The Campus Campaign, which is part of the University's overall historic \$600 million


comprehensive campaign, For All We Call Mizzou.

All gifts to the campaign, regardless of size, have an impact and help the University achieve its long-term goal of creating a culture of giving on campus, organizers say.

"We are encouraging faculty and staff to identify the programs or areas that are important to them and support them with a contribution, no matter how large or small," says Terri Gray, director of development for the campus campaign. She says donors may choose what to support, how much to contribute and how to make their gifts, whether by check, credit card, as a pledge or through payroll deduction. No administrative costs are deducted from the gift, so donors can be sure that 100 percent of every dollar they contribute will support the area of their choice.

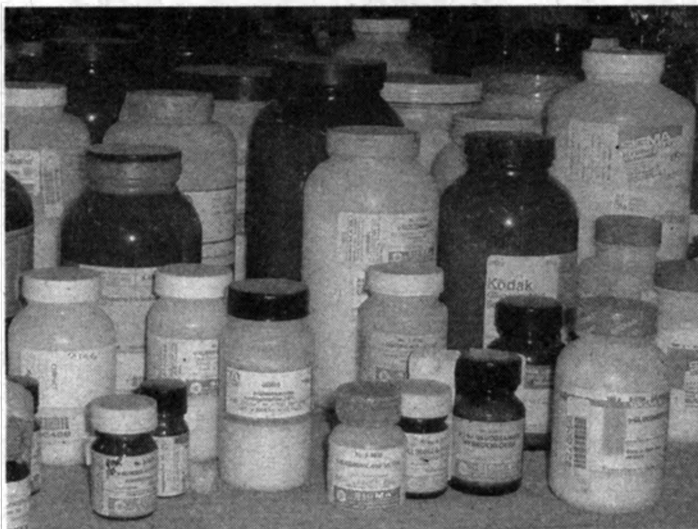
"Campus support makes a strong statement to others that people working here day in and day out value the University not only as an employer," Gray says, "but also as an important asset to the community and the state."

For more information about how your private gifts can ensure that Mizzou continues to thrive for generations to come, call 884-3160 or visit formizzou.missouri.edu.



**Environmental Health & Safety**

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ehs@missouri.edu  
(573) 882-7018




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EHS has an extensive inventory of surplus chemicals available free to MU registered researchers.

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**Parking & Transportation Services**

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Departments may purchase temporary permits for special events or to keep on hand for the use of their guests. The permits are \$2 per day or \$6 per week and are available for various lots/garages throughout campus. All permit orders should be made two weeks prior to event.

Permits may be ordered through our office by phone at 882-4568 or through our Internet address at [parking.missouri.edu](http://parking.missouri.edu)

**[parking.missouri.edu](http://parking.missouri.edu)**

MizzouWeekly

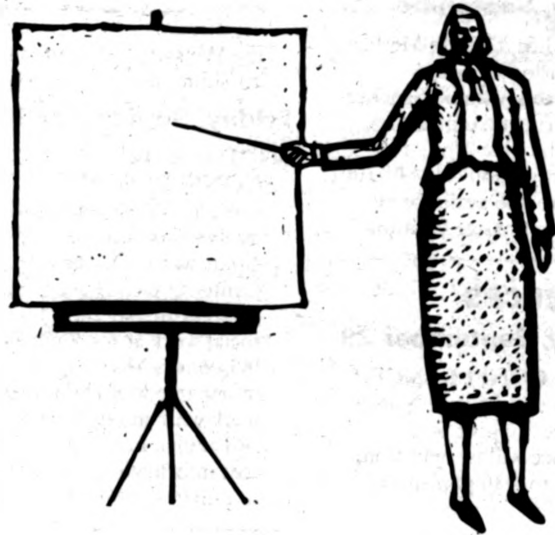
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**Photographers** Rob Hill, Adam Masloski, Steve Morse  
**Writer/designer** Sue Richardson

Missouri correspondent, with the entire state as his beat.

During his years as a front-line reporter, Charton's responsibilities with the AP also included leading coverage across print, broadcast and Web-based media and in nurturing the AP's relationships with its newspaper and broadcast members. He began his new position Sept. 16. He had previously served as a consultant to the University of Missouri.



**Technology innovations**

Campus departments can find out how other University units have used technology to solve problems. The Technology Solutions@Mizzou Innovation Fair is an event that will share home-grown technology solutions across departments. The goal is to reduce duplicate efforts and enhance interdisciplinary efforts and creative collaboration between departments.

The fair will be held from 9 a.m. to 3 p.m. Sept. 29 in the Memorial

Union's Stotler Lounge. It will feature technology solutions for curriculum enhancement, desktop productivity, communication and collaboration. The fair will be presented in a trade-show format, and participants will present their creative solutions during 30-minute presentations that begin at 9 a.m. and continue throughout the day. More information is available at [iatservices.Missouri.edu/innovations05/](http://iatservices.Missouri.edu/innovations05/).

**CELEBRATE from Page 1**

Mizzou! ended with an old-fashioned ice cream social on the south steps of Jesse Hall.

As he celebrated Mizzou's achievements, Chancellor Deaton posed two questions that he said are at the heart of MU's quest to become a destination university.

"How can we, as leaders, meet our responsibility to ensure student access to an outstanding experience in higher education at MU in a manner that brings this education within their financial reach, embraces the diversity of our population and readies our students to participate in the global community of tomorrow?" he asked.

A second, equally important question addresses faculty needs, Deaton said. "What must we do to attract and retain the best and brightest faculty who are sensitive to the needs of this state, nation and world — and will collaborate through interdisciplinary initiatives to provide a vibrant learning environment for students of all ages?"

"We should all be focused on these two critical questions. And we must also recognize and appreciate the complexity of the response required for each."

In addition to securing support for faculty, Deaton said, "we must also assure their freedom of inquiry and defend the freedom of our faculty to explore new opportunities in basic knowledge."

Deaton recalled that when he became chancellor nearly a year ago, he identified 10 action areas to mark progress toward MU's goal of becoming a destination university. "Our progress in these areas has been steady and on course, thanks to your contributions," he said, and listed some of those successes:

- steady enrollment growth to new, record levels
- unprecedented retention and graduation rates
- the second fastest growing research program in the nation among public peer universities
- record growth in private giving
- a record-setting pace in building quality infrastructure to improve faculty productivity
- exploration of new and creative pathways to diversify MU
- a remarkable range of national awards and recognition for scholarship and creativity by faculty, students and staff across campus

Deaton also said it was essential to provide a successful environment for faculty. "We can be a destination university only with the support of the best and brightest faculty," he said. "We must provide an intellectually stimulating environment as the first order of business."

william  
**Kristol**

September 29  
• 7:00 p.m. •  
Jesse Hall Auditorium

- editor of *The Weekly Standard*
- political analyst on FOX News Sunday and FOX News Channel
- author of the *New York Times* best-selling book *The War Over Iraq*
- leader of the Project for the Republican Future
- former chief of staff to Vice President Dan Quayle



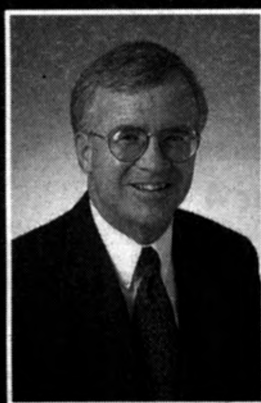
AMERICAN TRADITIONS AND VALUES LECTURE



*We invite you to remember*  
**Mary Neth**

Associate Professor of History and Women's and Gender Studies passed away Wednesday, September 14.

There will be a memorial sponsored by the Women's and Gender Studies Program and the Department of History in room 116 of the Black Culture Center on Tuesday, September 27th from 4:00-6:00pm to honor Prof. Neth. If you were one of Mary's students, a colleague, or friend please take a few moments to stop by on the 27th as we gather to celebrate her life.



Everyone is invited to attend this distinguished lecture. For more information:

(573) 882-2866  
[rpp@missouri.edu](mailto:rpp@missouri.edu)  
<http://rpp.missouri.edu>

**PROFESSIONALS AND MORAL RESPONSIBILITY**

**ROBERT F. COCHRAN, JR.**

Louis D. Brandeis Professor of Law  
Director, Institute on Law, Religion, and Ethics  
Pepperdine University

Wednesday, September 28  
12:50 to 1:40 p.m.  
Hulston Hall, Room 7 (MU School of Law)

SPONSORED BY: Center for Religion, the Professions, and the Public AND School of Law

# calendar



## Concerts & Plays

### Friday, September 23

#### STUDENT ENSEMBLE:

The University Philharmonic Orchestra will perform at 8 p.m. in Jesse Auditorium. Suggested donation: \$5.

### Monday, September 26

#### FACULTY RECITAL:

Leslie Perna on the viola, Paul Garritson on the Clarinet, and Peter Miyamoto on the piano will perform at 8 p.m. in the Whitmore Recital Hall in the Fine Arts Building. Suggested donation: \$5; free for MU students.

### Thursday, September 29

#### JAZZ SERIES:

The Pat Metheny Trio featuring Christian McBride and Antonio Sanchez will perform at 6 p.m. and 9 p.m. at The Blue Note. For ticket information call 449-3001. Tickets are also available at select Ticketmaster locations.

## Conferences

### Thursday, September 29

#### NURSING CONFERENCE:

The Office and Clinic Nurses and Office Support Staff Conference will be held from 7:30 a.m. to 4:30 p.m. at the

Peachtree Banquet Center. For registration information, visit the Web site at [nursingoutreach.missouri.edu/office05.pdf](http://nursingoutreach.missouri.edu/office05.pdf).

### Friday, September 30

#### SOCIAL WORK

CONFERENCE: The School of Social Work will hold its annual fall conference from 8 a.m.-4 p.m. at the Peachtree Banquet Center in Columbia. Sheldon Rose, professor emeritus of social work at the University of Wisconsin-Madison, will lead an interactive workshop on group work with children, adolescents and adults. For registration and cost information, call 882-6206 or e-mail [ssw@missouri.edu](mailto:ssw@missouri.edu).

### Monday, September 26

#### COMPUTER TRAINING:

"Formatting with Cascading Style Sheets" will be presented at 1 p.m. in 4D11 East Ellis Library. To register, call 882-2000 or visit [iatservices.missouri.edu/training](http://iatservices.missouri.edu/training).

### Tuesday, September 27

#### COMPUTER TRAINING:

"SAS Enterprise Guide: Regression and Correlation" will be presented at 8:30 a.m. in N3 Memorial Union. To register, call 882-2000 or visit [iatservices.missouri.edu/training](http://iatservices.missouri.edu/training).

### Wednesday, September 28

#### COMPUTER TRAINING:

"Flash 1: Vector Based Drawing" will be presented at 8:30 a.m. in 4D11 East Ellis Library. To register, call 882-2000 or visit [iatservices.missouri.edu/training](http://iatservices.missouri.edu/training).

### Thursday, September 29

#### COMPUTER TRAINING:

"SAS Enterprise Guide: ANOVA" will be presented at 8:30 a.m. in N3 Memorial Union. To register, call 882-2000 or visit [iatservices.missouri.edu/training](http://iatservices.missouri.edu/training).

#### MUSEUM CHILDREN'S

PROGRAM: "Experience Cultures of the World: Mesoamerica" will be presented from 4-6 p.m. for children in grades 1-4. The program will include presentations on artifacts and cultures as well as craft projects, folktales and music. For registration information, call 882-3573.

### Friday, September 30

#### COMPUTER TRAINING:

"Dreamweaver 1: Workspace, Pages and Text" will be presented at 8:30 a.m. in N3 Memorial Union. To register, call 882-2000 or visit [iatservices.missouri.edu/training](http://iatservices.missouri.edu/training).

My employer,  
and someday soon,  
my alma mater.



*"The educational assistance benefit really makes getting a degree more affordable. That means a lot to me since Mizzou is such a big part of my family. My father taught here, my five brothers and sisters graduated from here, my daughter is a student, and now I'm earning my degree while I work here. I'm proud to be continuing the tradition."*

— Carla Whitney  
Assistant to the Registrar  
and MU In The Evening student

Join other MU staff members who are finishing their bachelor's degrees with MU In The Evening.

Learn more at our next Information Session:  
**6 p.m., Tuesday, October 4**  
**Heinkel Building**



**MU In The Evening**

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## Courses & Workshops

### Thursday, September 22

#### COMPUTER TRAINING:

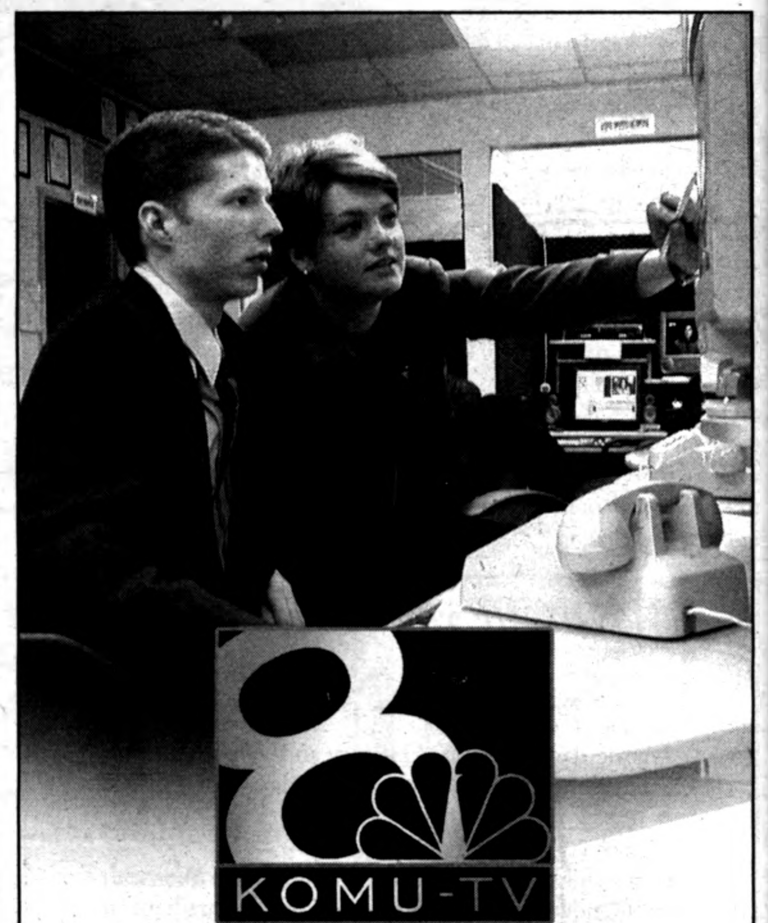
"Access 2003 Customization, Indexing & Replication" will be presented at 1 p.m. in N3 Memorial Union. To register, call 882-2000 or visit [iatservices.missouri.edu/training](http://iatservices.missouri.edu/training).

#### SAFETY WORKSHOP:

"Lab Hood/Biosafety Cabinet Safety" will be held today and Nov. 18 from 9-10 a.m. in the EHS classroom in the Research Park Development Building, located on Research Park Drive by Simmons baseball field. Registration is required: call 882-7018.

#### GRADUATE FUNDING

WORKSHOP: Informational meetings about opportunities for funding graduate education, including the NSF's 2006 fellowship program, will be held from noon-1 p.m. and 4:30-5:30 p.m. at Monsanto Auditorium in the Life Sciences Center.



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**Exhibits**

**MUSEUM OF ART AND ARCHEALOGY:**

- **"Greek and Roman Crafts:** Metalwork, Textiles and Pottery is on display through September 25
- **"American Regionalism:** Images from the Heartland" is on display through June 25
- **"Memoria Architecturae:** The Fragmentary, the Forgotten, and the Fantastic" is on display September 17-December 24.

The museum, located in Pickard Hall, is open from 9 a.m.-4 p.m. Tuesday-Friday and from noon-4 p.m. Saturday-Sunday. STATE HISTORICAL SOCIETY:

- **"Travels in the Interior of North America:** The Aquatints of Karl Bodmer" is on display in the main gallery through Dec. 16
- **"Rural Life:** Lithographs by Thomas Hart Benton" is on display in the main gallery through Nov. 11.
- **"A Slice of American Life:** The Lithographs of Ben Messick" is on display in the north-south corridor gallery through Dec. 16.

The main gallery is open from 8:30 a.m.-4 p.m. Monday-Friday.

**Lectures & Seminars**

**Thursday, September 22**

**GLOBAL ISSUES FORUM:** Chancellor Brady Deaton will moderate a faculty panel that will discuss "The U.S. Constitution: Protecting Our Rights and Freedoms in an Era of Change" from 3:30-5 p.m. at Allen Auditorium in the Arts and Science Building.

**Friday, September 23**

**ENGLISH COLLOQUIUM:** Shawn Michelle Smith from St. Louis University will present "Race and Reproduction in Roland Barthes' *Camera Lucida*" at 4 p.m. 104 Tate Hall.

**Monday, September 26**

**JOURNALISM SEMINAR:** Ed Lambeth, professor emeritus of journalism and director of MU's Center for Religion, the Professions and the Public, will present "Religion & Journalism in Parlous Times: What

Would Walter Williams Do?" at noon in 85 Gannett Hall.

**Tuesday, September 27**

**BIOINFORMATICS SEMINAR:** Julie Kapp, director of the Behavioral Risk Factor Survey System, will present "Health and Behavioral Risk Research Center Overview" at noon in 426A Clark Hall.

**Wednesday, September 28**

**ECOLOGY & EVOLUTION SEMINAR:** Andrew Mason from the University of Toronto-Scarborough will present "Multi-Modal Communication in Jumping Spiders" at 4 p.m. in 106 LeFevre.

**RELIGION & PROFESSIONS**

**LECTURE:** Robert Cochran from Pepperdine University will present "Professionals and Moral Responsibility" from 12:50-1:40 p.m. in Room 7 Hulston Hall.

**Thursday, September 29**

**WRITING PROGRAM SEMINAR:** Andy Winholtz, associate professor of mechanical and aerospace engineering, will present "Soft and Hard Thinking in Engineering" at 12:30 p.m. in 105 Townsend Hall.

**MUSEUM LECTURE:** Visiting artist Andres Serrano will discuss his work at 6:30 p.m. in Ellis Auditorium. A reception will be held at 5:30 p.m. in the Cast Gallery in Pickard Hall.

**LITERARY ARTS READING:**

Poet and critic Susan Stewart from Princeton University will read from her work at 7:30 p.m. in the Memorial Union's Stotler Lounge.

**Friday, September 30**

**MUSEUM LECTURE:** Sally Cornelison, assistant professor of art history at the University of Kansas, will present "Housing the Holy: Medieval and Renaissance Architectural Reliquaries" at 5:30 p.m. in 106 Pickard Hall. A reception will follow at 6:30 in the Cast Gallery in Pickard Hall.

**LITERARY ARTS LECTURE:**

Poet and critic Susan Stewart from Princeton University will present "Poetry and the Feel of Thought" at 4 p.m. in 104 Tate Hall.

**Meetings**

**Thursday, September 22**

**STAFF COUNCIL:** The Staff Advisory Council meets at 1:15 p.m. today and Oct. 3, Oct. 27, Nov. 10 and Dec. 8 in S206 Memorial Union.

**Thursday, September 29**

**FACULTY COUNCIL:** The Faculty Council will meet at 3:30 p.m. today and Oct. 20, Nov. 3 and Nov. 17 in S203 Memorial Union.

**Special Events**

**Saturday, September 24**

**HURRICANE READ-ATHON:** Members of MU's English Graduate Students Association will hold a daylong reading to benefit Habitat for Humanity's rebuilding efforts on the Gulf Coast. Members will read from their own work or from writers of the affected region from 9 a.m.-8p.m. at Cherry Street Artisan.

**Sunday, September 25**

**HISPANIC HERITAGE PICNIC:** The Hispanic Latin

American Faculty and Staff Association will celebrate Hispanic Heritage Month with a picnic from 1-5 p.m. at the Hulen Lake picnic shelter. For more information, call Christiane Quinn at 882-2978 or e-mail quinn@missouri.edu.

**Thursday, September 29**

**TIGER TWILIGHT FESTIVAL:** The Twilight Festival in downtown Columbia from 6-9 p.m. will celebrate Mizzou with a Tiger Rally parade down Eighth Street and a concert by Mini Mizzou at 8 p.m.


*Chancellor Brady J. Deaton*  
*and*  
*Dr. Anne Deaton*

*invite you to join them*  
*at a welcome reception for*

*Provost Brian Foster*  
*and Mrs. Lerke Foster*

*Monday, September 26, 2005*  
*3:00 – 5:00 p.m.*

*Stotler Lounge, Memorial Union*



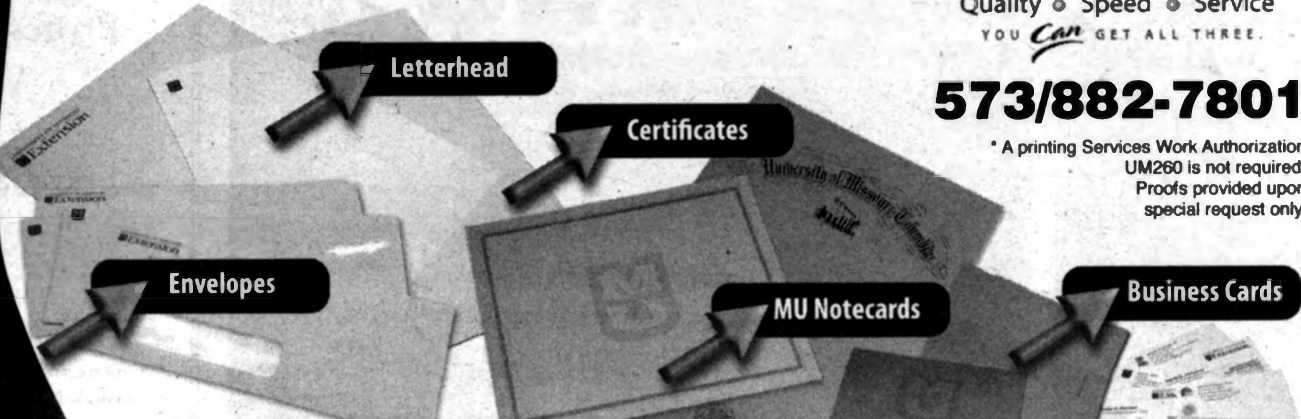
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# Road warriors

## TEAM EFFORT

Veterinary medicine faculty hit the road for health

**V**eterinarians use tools like scalpels, sutures and medications to help clients and patients. Sometimes they use bicycles. Team Zubrin is a recently established group of veterinary medicine faculty who use their two-wheeling skills to participate in regional and national bicycling events.

The team was formed by Derek Fox, assistant professor of small animal surgery and associate director of MU's Comparative Orthopaedic

Laboratory. Members are veterinary oncologist Jeff Bryan, radiologist David Kunz, orthopedic surgeon James "Jimi" Cook, and Nathan Klocke, a Kansas City small-animal surgeon who is a former MU veterinary medicine intern.

Individual and corporate sponsors support the team and proceeds go to a variety of worthwhile health-related causes. That corporate support is acknowledged in the team's name — Zubrin is a small-animal pain reliever manufactured by sponsor Schering-Plough Animal Health.

Team Zubrin raises money for a variety of afflictions including multiple sclerosis

and diabetes research. Bryan rides to promote awareness of the silent and deadly problem of aortic root aneurysms. He was diagnosed with this cardiac malformation before it caused him any problems and he had a successful open heart surgery to replace a four-inch section of his aorta last winter. Bryan now rides more than 100 miles each week, commuting to work by bicycle.

The team's goal is to ride in several upcoming "century" bike events. The events are called 'centuries' because they each are 100 miles or more in length. They are not races, with a first-, second- and third-place winners. The purpose is just to go the distance. Even so, the team trains hard to be able to finish in a respectable time — not unlike runners training for a marathon.



Randy Mertens photo

## TEAMWORK

Veterinary faculty in Team Zubrin participate in national cycling events to raise money and awareness for health-care advances protection of endangered animals. Members are, from left, Derek Fox, assistant professor of small animal surgery, orthopedic surgeon James Cook, veterinary oncologist Jeff Bryan and radiologist David Kunz.

In a typical week they'll ride 100 to 150 miles around campus and the Columbia area.

Team Zubrin's first event was the 2005 Hotter than Hell 100 in Wichita Falls, Texas last August. The team also rode in the MS150 Sept. 10 and 11 in Columbia, and planned to do the Tour of the Ozarks in Rolla last weekend.

The Hotter Than Hell 100 is well named, taking the 9,000 riders through hilly and windy mid-Texas in August. "Hotter than Hell 100 is unique in that it represents one of the largest century event rides in the country," Fox says. "So the opportunity to represent our University, college, profession, and sponsors among so many other cycling enthusiasts was very exciting."

Another non-financial, but philosophical sponsor of the team is the International Foundation for Animal Welfare

— a non-profit organization committed to the improvement of the welfare of wild and domestic animals throughout the world by reducing commercial exploitation of animals, protecting wildlife habitats, and assisting animals in distress.

More than 2,500 riders participated in last year's MS150 in Columbia and raised \$1.65 million from corporate sponsorships and from individuals who pledged money for each mile ridden.

"Each of us rides specialized road bikes, intended for fast, long distance riding," Fox says. One bike is made of exotic carbon fiber, another from aluminum and one from lightweight steel— materials not unlike those used in some of the more traditional medical instruments the team uses in their more traditional way of helping animals.



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## Women in engineering

### SUPPORT PROGRAMS

Study gauges success factors in support programs for female engineering students

**R**ecruiting and retaining female students is a constant challenge in the engineering field. Recent studies show that women comprise only 20 percent of undergraduate engineering school enrollment nationwide and only 8.5 percent of U.S. engineers. A new study by an MU researcher found that women's reported expectations and confidence drops as they study engineering, thus causing them to leave the field.

"Approximately 50 colleges and universities across the country have established Women in Engineering programs to respond to the lack of women in the field; however, the effectiveness of these programs has varied tremendously," says Rose Marra, assistant professor of learning technologies at MU, who conducted the study with Barbara Bogue, former director of Penn State's Women in

Engineering program.

In the study, Marra collected survey responses from 202 undergraduate women studying engineering over the course of one year, some involved in support programs.

The survey examined, among other things, feelings of self-efficacy and the sources of barriers and obstacles in obtaining an engineering degree.

While the results are preliminary, Marra found that women experienced significant drops in their confidence over the year she examined, but that those involved in the support programs suffered less than those not involved in the programs. Marra plans to increase the size of the study, examine the data by year in school and ethnicity status, and attempt to explain why there's inconsistent evidence of the impact of participating in women in engineering programs.

The study is part of the National Science Foundation-funded Assessing Women in Engineering project.

## Researchers explore 'nanopower'

### MICROENERGY

Possibilities are endless with new energy source

**C**ountries across the world continue to search for new ways to create energy. As our current means for energy continue to deplete, thus making them more expensive to generate, governments are searching for new energy resources. MU researchers have developed a more efficient source of energy involving nano-scale particles that take only microseconds to create and can be developed on a surface as small as a microchip.

"This technology is considerably less expensive than existing chemical and physical processes," says Shubhra Gangopadhyay, professor of electrical engineering. "It creates high amounts of mechanical and thermal energy and can convert that energy into electrical energy. So, the possibilities are endless in terms of what this energy can do."

The energy is developed using solid state energetic material consisting of fuel and oxidizer. The nano-engineered energetic material generates a tremendous amount of thermal and

mechanical energy when ignited. Electric power is generated using the thermoelectric effect.

The microfabricated devices coated with the energetic material are capable of producing tens of joules, which are units of energy, in the fraction of a second, which can be stored for later use in portable electronics.

Gangopadhyay says there currently are no obstacles to overcome with the research. She points out that the process can be done on glass without affecting its surface and does not necessarily need electricity to start it. All that is needed is friction or impact.

## classifieds

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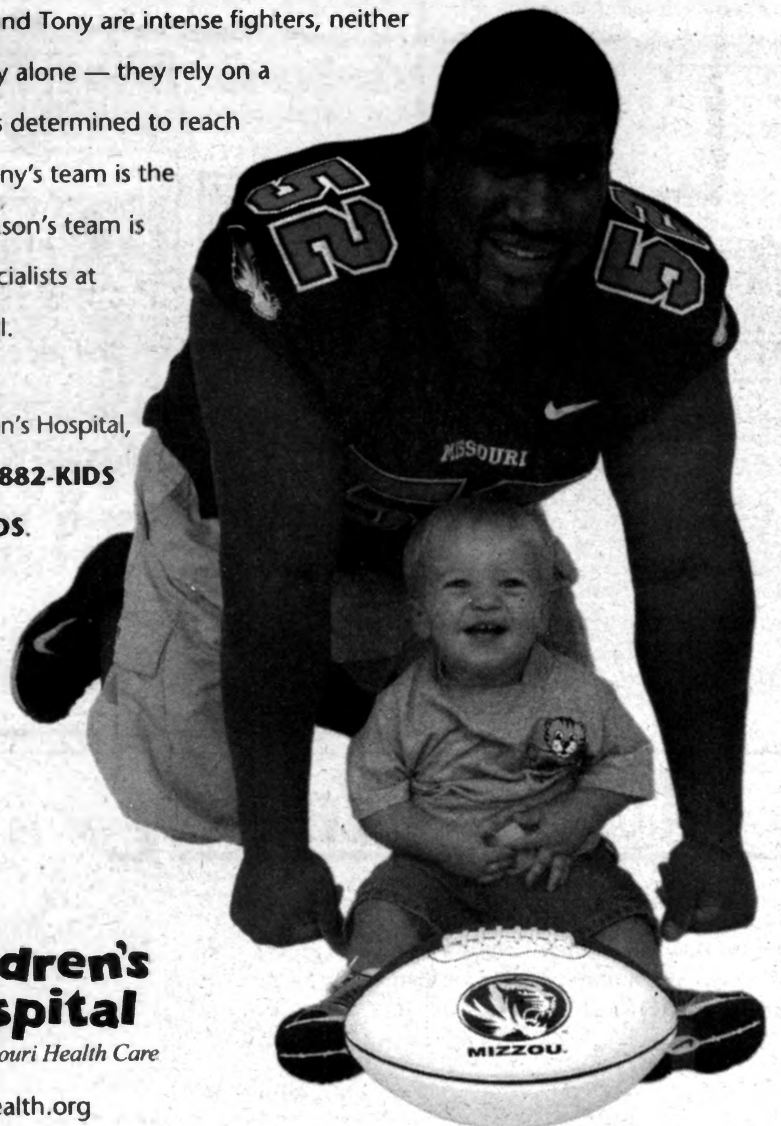
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# TOUGHNESS comes in ALL sizes

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Professor Sir Geoffrey Lloyd, former Master of Darwin College, Cambridge

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Ancient Greece, Egypt,  
and China*

Wednesday, Sept. 28

7:00pm

Ellis Auditorium

free & open to the public

## Online relief

### STRESS MANAGEMENT

Arthritis pain can increase unhealthy stress factors

**A**n MU research project uses the Internet to provide relief to people suffering from rheumatoid arthritis by offering support and self-management techniques.

People who deal with rheumatoid arthritis endure physical stressors such as pain, stiffness and inflammation, which often affect their mood and ability to focus and think clearly. Persistent stress can cause high blood pressure, recurrent headaches and gastrointestinal disturbances.

"The single fastest thing to do to help control stress is deep breathing," says Kathy Donovan Hanson, senior researcher at the Missouri Arthritis Rehabilitation Research and Training Center. "Other stress control techniques include getting enough sleep, drinking plenty of water, eating properly, exercising and utilizing relaxation techniques."

Devoting time to things you enjoy and staying focused on the "here and now" instead of worrying about things you can't control is important, Donovan Hanson says.

"Take time to transition between the different roles in your life," she says. "Do not worry about personal stuff while you are at work; do not take work home with you."

The MU research program evaluates the effectiveness of an online arthritis self-management program. The program includes 10 lessons on topics such as fatigue, managing stress and pain, coping with change and emotional responses.

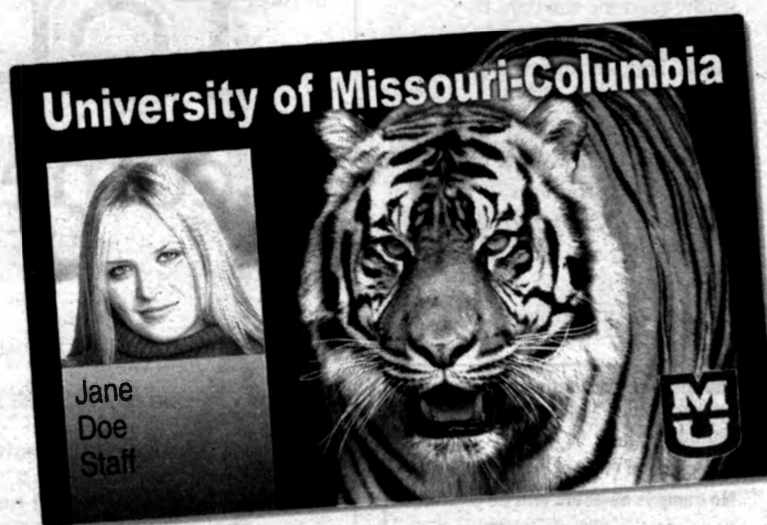
Each topic includes talking with an experienced facilitator by telephone. Interaction with others who suffer from rheumatoid arthritis is also part of the program. More information on the study and how to participate is available at [www.marrrtc.org](http://www.marrrtc.org) or by calling 1-888-740-6626.

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For details, visit

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