

**Far-Reaching Consequences**  
Curators discuss a wide range of issues.  
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**Energy Demand**  
MU faculty will lead 'next generation' reactor research.  
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**Oct. 11, 2007**  
University of Missouri-Columbia

## Pioneering professor

### MAKING HISTORY

Professor Aravarh Strickland was MU's first African-American faculty member

In April, the General Classroom Building (GCB) became MU's first academic building named for an African-American when the University of Missouri Board of Curators voted to rename it Strickland Hall. "I have no problems with being the first," says pioneering professor Aravarh Strickland, "but I certainly didn't want to be the only."

He taught history from 1969-98 and knows GCB well. "I taught on every floor of that building," he says. A dedication ceremony will be held at 10 a.m. Friday, Oct. 19.

Strickland, who was honored upon his retirement with a named endowed professorship, says he is particularly proud that students lobbied for the building's name change. "I think that the students wanted to say that there ought to be something

on the campus that would symbolize that black people have been here and have become an integral part of this institution," he says. He is honored that colleagues see him as worthy of becoming that symbol. "That's a marvelous role to play," he says.

Strickland is proud of his students and their accomplishments. The ones who weren't prepared to work hard avoided his classes. "I taught a special course when [the miniseries] *Roots* was aired on television. My wife took that course with me, and there was a rumor that I flunked her," he says with a hearty laugh. Word was he also flunked his son. "Although they were without foundation," he says, "I never did dispel those rumors."

Strickland has written widely on black history. His *History of the Chicago Urban League* was first published in 1966 by the University of Illinois Press and reprinted in 2001 by the University of Missouri Press. He has published two volumes of the

diary of Lorenzo J. Greene, who is known as the father of black history, and has written a number of scholarly articles and essays.

He continues to serve on journal editorial boards and on the board of the State Historical Society of Missouri, and he is active in the Columbia community. Since his retirement, he continues to be recognized for his career achievements. The University of Illinois at Urbana-Champaign awarded him an Alumni Achievement Award in 1997, and in 1999 the Association for the Study of African American History and Culture awarded him the Carter G. Woodson Medal.

### INTELLECTUAL ICON

Professor of history emeritus Aravarh Strickland stands in front of what was formerly known as the General Classroom Building, located just west of Brady Commons. The building was renamed in his honor in April. A dedication ceremony will be held at 10 a.m. Friday, Oct. 19.

Rob Hill photo



## Resolution triggers hot discussion among UM curators

### BOARD SKIRMISH

By 6-1 vote, curators pass resolution on academic freedom

The University of Missouri Board of Curators typically passes resolutions with little. But, as the Oct. 5 meeting in Columbia wound down, a resolution about academic freedom was introduced that triggered a heated debate.

Curator Judith Haggard of Kennett introduced a resolution that reaffirmed the board's "unwavering commitment to the principles of academic freedom and intellectual inquiry." It also commended an earlier statement by Interim President Gordon Lamb that endorsed academic freedom and raised concerns about a proposed statewide ballot initiative on cloning.

In a Sept. 7 statement, Lamb warned that the ballot measure by a group called Cures Without

Cloning could be 'the first step to controlling and impeding Missouri's research agenda and potential for future research.'

The resolution passed by a 6-1 margin with two abstentions, but not before the board argued about its political implications and several curators complained that they had been blindsided. A complete text of the resolution is on Page 7.

Haggard pointed out that other members of the University community already had endorsed Lamb's comments, including chancellors of the four UM System institutions and the Intercampus Faculty Council. Some people have told her "but we haven't heard from the curators," Haggard said. "We need to add our voice of support."

Curator Bo Fraser of Columbia agreed: "Some of us thought the board should speak out and endorse this kind of initiative" by Lamb. However,

several curators argued that passing the resolution would mean the University's governing board was improperly taking sides on a hot political issue. "We're interjecting this board in the middle of a political battle," said Curator Doug Russell of Lebanon. What's next, he asked? Will the board begin to take sides in election contests or on divisive political issues such as abortion? "We're not a legislative group," Russell said.

"I don't see this as a political issue whatsoever," Fraser said. "The politics of this — that's not an issue to me. The issue is what's good for the University."

"I think what's good for the University is for us not to get involved in this," Russell replied.

Curator David Wasinger of St. Louis pointed out that the resolution was not on the board's formal agenda. It was introduced during an agenda section that is called "For

the Good and Welfare of the University." Wasinger said he objected to being asked with no advance notice to vote on a resolution he had not read.

He also objected to the resolution's political implications. "It's going to end up being a litmus test" when future board members are confirmed by the state Senate, Wasinger said. "You're on a slippery slope, guys." He said the resolution's proponents were "poking a finger in the eye of the state legislature" without conferring with other board members.

Wasinger questioned whether board members had the scientific knowledge to pass judgment on the merits of stem-cell research. "Tell me what somatic cell nuclear transfer is," he asked Don Walsworth of Marceline, the board chair. "Show me where on your body an adult stem cell is."

"Well," Walsworth deadpanned, "that would

be a little embarrassing."

Curator Marion Cairns of Webster Groves said the issue was one of academic freedom, not stem-cell research. "We are a doctoral-granting research institution, and we are giving our support to our good people who are doing this work," Cairns said. "You can take stem cells out of it; we are just supporting our faculty."

Fraser acknowledged that he might have "messed up" by not ensuring that the resolution was specifically listed in the agenda. He said he was willing to table the measure for a future meeting. However, several other curators said they intended to support the resolution, and the vote proceeded.

Wasinger and Curator John Carnahan of Springfield abstained; Russell voted no. Wasinger said he objected to the vote "because I think it's a violation of the Sunshine Law."

**Early breast cancer detection saves lives**

Breast cancer affects more than 200,000 women each year in North America, making it the most prevalent cancer for women and the second-leading cause of cancer death in the United States. October is Breast Cancer Awareness Month and physicians and staff at Ellis Fischel Cancer Center want to provide women with knowledge that can save their lives.

"Early detection is a vital component to surviving breast cancer. We want to give women the knowledge they need to protect themselves," says Paul

Dale, director of Ellis Fischel Cancer Center's Margaret Proctor Mulligan Breast Health and Research Program. The survival rate for women with breast cancer has grown to 88 percent during the last 10 years, mainly due to early detection and intervention.

The American Cancer society offers these recommendations for early breast cancer detection:

- Women age 40 and older should have a yearly mammogram.
- Women in their 20s and 30s should have a clinical breast exam as part of a periodic health exam every three years.
- Women should know

how their breasts normally feel and report any breast change promptly to their health care provider.

Women at increased risk should speak with their physician about the benefits and limitations of starting earlier mammography screening or having more frequent exams. Educational materials are available online at [www.ellisfischel.org](http://www.ellisfischel.org).

**Nuts to you**

If your only experience with chestnuts is hearing them mentioned in a well-known Christmas song, then the fifth annual Missouri Chestnut

Roast will help you make the acquaintance of this longtime culinary staple. Chestnuts and other Missouri-grown treats will be showcased from 10 a.m. to 4 p.m. Saturday, Oct. 13, at the MU Horticulture and Agroforestry Research Center in New Franklin, Mo.

Participants can try some Missouri products such as wine, specialty beers, ice cream, mustard, goat cheese, meats and nut products. The Ironweed bluegrass band will furnish the live music, and there will be furniture-making demonstrations, guided bus and walking tours of the research center, face painting for the kids

and a straw bale maze. Directions, a list of vendors and a schedule of the day's events are available online at [www.centerforagroforestry.org](http://www.centerforagroforestry.org) or by calling 882-3234.

**Mizzou chowhounds**

A team of three MU students and their instructor took second place in a competition against 14 other teams of elite military chefs in the International Food Service Executives Association's annual military culinary competition in Washington, D.C. The students, all with current military commitments, were led by Leslie Jett, an instructor in hotel

**'Every dollar makes a difference' in 2007 United Way campaign**

**SHARING THE CARING**

University's campaign goal is \$570,000 this year

As John Murray has become more and more involved with the University's annual United Way campaign, it's been impossible for him not to notice all the connections between the University and the 32 social service agencies in the area that receive funding through the United Way.

"The University and United Way are so intertwined," says Murray, manager of Jesse Auditorium. "At all stages of the life cycle, United Way agencies benefit University

staff, faculty and students."

For instance, faculty and staff volunteer their expertise at the agencies and serve on their governing boards. Students volunteer and perform internships at the agencies to gain real-world experience. The agencies provide assistance to University employees and retirees who are in need of help.

Murray is one of three co-chairs for the University's 2007 United Way campaign. The other chairs are Jim Spain, vice provost for undergraduate studies, and Mitzi Clayton, assistant athletic

director for compliance.

Murray also points out that the University's contributions to United Way are vital for the agencies that depend on them. Donations by faculty, staff,



students and retirees at MU, University of Missouri Health Care and the University of Missouri System make up 18 percent of United Way's local campaign effort.

This year's total campaign goal for the Columbia area is \$3,192,381. The University's portion of that goal is \$570,000. That figure might sound like a challenge, Murray says, but

he points out that last year's goal for the University was \$540,000, and the campaign bested that goal by raising a total of \$549,000. The theme for this year's campaign is "Every Dollar Makes a Difference."

The campaign keeps growing because the needs that United Way agencies address keep growing. "One in five people in the community make use of United Way agencies," Murray says. "But that means that one in five of our colleagues and peers at the University make use of United Way agencies as well."


United Way has three initiatives it is undertaking with this year's campaign:

- United Way Senior

Collaborative will strive to make mid-Missouri more 'senior-friendly' by making local senior services more efficient, effective and sustainable. United Way will join with senior-service providers, businesses and the faith-based community to provide seniors and caregivers with access to information and care management and to assist with basic needs.

- United Way Early Childhood Development Initiative will help kids get ready for school so they can succeed in life. Research shows that early learning correlates with higher education levels and higher paying jobs as adults, less involvement with crime and lower drop-out rates. Every \$1 invested in early childhood development provides a return of \$7.

- United Way 2-1-1 is a statewide helpline for information and referral to health and human services that will serve a 100-county area in Missouri. The Columbia Area United Way will serve as a data collection site for the program and will host a 2-1-1 resources specialist.



**Parking & Transportation Services**  
Turner Avenue Garage  
Level 2  
882-4568



There will be a number of prospective students and their families on campus Friday, October 12, 2007 for Black & Gold Day. Please be helpful to these visitors and use caution during this busy time.

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

The University Club and the Mizzou Alumni Association invite you to

**Tourin' Tasting**

Thursday, October 18, 2007  
at 6 p.m.

University Club in the Reynolds Alumni Center  
704 Conley Avenue  
On the University of Missouri campus

Discover the adventure of worldwide travel opportunities and enjoy a selection of international flavors.

- \* Meet MU students and faculty\*
- \* Connect with guests who share the love of travel\*
- \* Preview three Tourin' Tigers trips for 2008\*

Featured tours include:  
Ukraine Along the Dneiper - departing June 24, 2008  
Spirit of the Rockies [Canadian] - departing July 15, 2008  
Town & Country Life: Dublin & Killarney [Ireland], departing Sept. 9, 2008

Our Travel Partner for this Tourin' Tasting:  
Mike Hull, Alumni Holidays

Cost is \$25/person for a three-course dinner.  
Reservations are required by October 15th.  
Call the University Club, 573-882-2586.

Co-hosted by the Mizzou Alumni Association and the University Club

**MizzouWeekly**

Volume 29 No. 8

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Editor John Beahler  
Advertising Lauren Gosling, Scott Reeter  
Photographers Nicholas Benner, Rob Hill  
Writer/designer Sue Richardson

and restaurant management. Jett also is a Navy officer soon to serve in Djibouti.

Colt Baxter of Imperial, Mo., is a second lieutenant in the Army health professions scholarship program and a senior in veterinary medicine who, upon graduation, will complete officer training and enter active duty. Michael Smith of Union, Mo., is a biology and pre-med student and a midshipman in the ROTC program. Wade Ramirez of Centralia, Mo., is a hotel and restaurant management student and an Army reservist who will be deployed to Iraq this fall.

Each team was given a

box of mystery ingredients and had two and a half hours to conceptualize and prepare a starter course and entrée, Jett says. The team prepared a starter course of mussels steamed in white wine served with Parmesan sauce on a bed of braised greens and cream. The entrée was honey-firecracker glazed pork tenderloin stuffed with several fresh fruits and vegetables.

**Cosmic conversations**

Some mornings as you drive to work, you might notice a faint moon low in the sky and wonder why the moon is sometimes visible during the day. The mysterious orb has intrigued observers for millennia. Why do we only see one face of the moon? Can you tell the time or navigate by the moon? Angela Speck, assistant professor of astronomy and physics, answered those and other questions last week when she kicked off a monthly lecture series called Cosmic Conversations.

The series will continue this fall on the first Wednesday

of each month at 7 p.m. in 126 Physics Building. Future speakers will cover such topics as nighttime photography techniques, the history of the space shuttle and the impact of meteorites. Following each discussion, the Laws Observatory will be open for viewing of the night sky.

**Behind the scenes**

Each of the dozens of buildings on campus has a "go-to" person who handles problems when things go wrong or repairs are needed. These building coordinators work with Campus Facilities to keep things humming.

Campus Facilities will hold its fall building coordinators meeting at 9 a.m., Oct. 17 in the Columns Ballroom of Reynolds Alumni Center.

Space Planning & Management is now a department of Campus Facilities, and Heiddi Davis, the department's interim director, will discuss the Space Use Inventory, which is done every three years to update the use of buildings on campus. Other topics include: energy conservation; winter weather readiness; construction project updates and recycling, along with brief presentations from Environmental Health & Safety and the MU Police.

**Nuclear engineering faculty will lead 'next generation' reactor research**

**ENERGY DEMAND**

High temperature reactors increase efficiency

Faculty members from MU's Nuclear Science and Engineering Institute have been selected by federal officials to enhance and develop technologies for America's "next generation" of nuclear reactors.

As part of a three-year, \$3 million grant from the U.S. Department of Energy (DOE), MU engineers are working with colleagues from North Carolina State University and Washington University in St. Louis to research advanced energy systems for "Very High Temperature

Reactors, which also are called Generation IV reactors. With ongoing experiments being conducted at each of the three universities, the researchers will improve thermodynamic efficiency and hydrogen production capability. They will brainstorm issues dealing with fuel cycle, nuclear materials, complex fluid dynamics and heat transfer. MU researchers will lead the consortium.

Sudarshan Loyalka, Curators' professor of nuclear engineering and principal investigator of the consortium, says the new reactors will offer better efficiency and increased energy as a result of operating temperatures

that will exceed 900 to 1,000 degrees Celsius. None of the world's reactors operate at such capacity. The current maximum temperature — generated by light water reactors — is about 300 degrees; but at 33 percent efficiency much of that heat isn't converted into electrical energy, Loyalka says.

Engineers worldwide are racing to make these Very High Temperature Reactors a reality. Loyalka says South Africa is aiming to have such a reactor built by 2012; the United States' goal is 2021. Research at MU will play a vital role in U.S. efforts.

"The technology being developed is quite new in terms

of the temperatures that will be generated," he says. "This is the groundwork, and there are several challenges associated with fuel cycles, temperatures, the materials and safety issues. Higher temperatures result in better efficiency, meaning more heat can be converted to electricity. These reactors have efficiency rates of 45 percent to 50 percent."

The project is part of the DOE's Nuclear Energy Research Initiative and President Bush's Global Nuclear Energy Partnership program. In all, 11 consortia — each comprising at least three universities — were selected. The MU

consortium is one of two that will focus on Generation IV reactors, which Loyalka says will be safer, more economical and result in decreased dependency on fossil fuels.

"The demand for energy is increasing all over the world — here in the U.S., China, India, Brazil and developing nations," Loyalka says. "We have had good experiences with nuclear reactors. On the balance, these are the safest and the most economical means of power generation. The project we're working on will enhance nuclear power's contributions to society even more."

**Massage Therapy Services for the MU Community**

These discounted rates are available to all benefit-eligible employees and their immediate family.

**\$ 40** for one hour

Staffed by a nationally certified licensed massage therapist with years of experience.

**\$ 25** for a 1/2 hour

**\$ 60** for 1 1/2 hours

**Benefits of Massage Therapy include:**

- reduces stress/ anxiety
- relieves muscular tension
- relieves chronic pain
- speeds rehabilitation from injuries
- improves athletic performance/flexibility

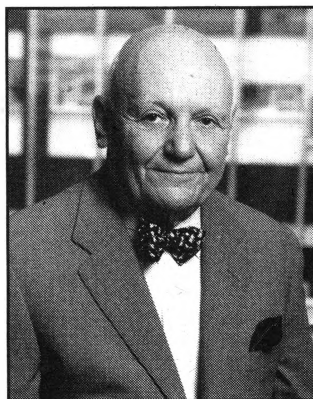
To schedule an appointment or for more information call Hospitality Services at (573) 882-8220

**location:**  
Fit for Life Facility in GL-20, lower level, University Hospital  
**hours of operation:**  
Mon, Tues, Thurs - 9 a.m. - 7 p.m.  
Wed. - 1 p.m. - 7 p.m.



The MU College of Business presents the Distinguished Alumni Lecture

By video conference...



**“Q&A with a Wall Street Legend”**

**Alan "Ace" Greenberg**  
Chairman of the Executive Committee  
The Bear Stearns Companies, Inc.

Alan "Ace" Greenberg is one of the most distinguished alumni of the College of Business. He graduated from MU in 1949 and began his career on Wall Street as a clerk at Bear Stearns, where he has remained for 58 years. Bear Stearns is one of the largest global investment banks and securities trading and brokerage firms in the world, with more than 15,000 employees and 2006 revenue of over \$16 billion.

**Friday, October 12, 2007 • 9:30 am**  
**Bush Auditorium • Cornell Hall**

This lecture is free and open to the public



Parking is available on the upper level of Turner Avenue Garage. • 882.6768 • business.missouri.edu

# calendar



## Concerts & Plays

### Thursday, October 11

**MUSIC SERIES:** The MU Jazz Bands will perform at 8 p.m. in Memorial Union's Stotler Lounge. A \$5 donation is suggested; free for students.

### Saturday, October 13

**GUEST ARTIST RECITAL:** Michael Kirkendoll will perform on piano at 8 p.m. in Whitmore Recital Hall. A \$5 donation is suggested; free for students.

### Thursday, October 18

**HOMECOMING COMEDY SHOW:** The "Welcome Black Homecoming Comedy Show" will feature BET Comic View comedians Doug Williams and Vanessa Fraction at 8 p.m. in Jesse Auditorium. Tickets are available from Ticketmaster and the Brady Commons box office. Cost: \$5 for students, \$7 for the general public.

### Sunday, October 14

**JAZZ SERIES:** Cuban pianist Omar Sosa will perform with his Afreecanos Quartet at 6:30 p.m. in Stephens College's Lela Rainey Woods Ballroom. Tickets are available through [www.ticketmaster.com](http://www.ticketmaster.com) or by calling 449-3001.

### Monday, October 15

**FACULTY RECITAL:** Percussionist Julia Gaines will perform at 8 p.m. in Whitmore Recital Hall. A \$5 donation is suggested; free for students.

### Wednesday, October 17

**LIBRARY CHAMBER SERIES:** The MU Faculty Brass Quintet will perform at noon in Ellis Library's first-floor colonnade.

## Conferences

### Thursday, October 11

**HEALTH ETHICS CONFERENCE:** "Spirituality in Health and Healing" begins today at the Reynolds Alumni Center and continues Oct. 12-13 at the Hilton Garden Inn, 3300 Vandiver Dr. For cost and registration information, visit the Web site at [www.muhealth.org/~cme/medicalethics/07ethics/index.shtml](http://www.muhealth.org/~cme/medicalethics/07ethics/index.shtml).

### Friday, October 12

**NURSING CONFERENCE:** "Clinical Update for OR, PACU and Endo Nurses From Inpatient and Ambulatory Settings" will be offered today and tomorrow at the Peachtree Banquet Center in Columbia. Information and online registration are available at [nursingoutreach.missouri.edu/perioperative07.htm](http://nursingoutreach.missouri.edu/perioperative07.htm) or by calling 882-0215.

## Courses & Workshops

### Monday, October 15

**COMPUTER TRAINING:** "Access 2003 Advance Forms, Reports & Queries" will be offered at 1 p.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at [training.missouri.edu](http://training.missouri.edu).

### Tuesday, October 16

**COMPUTER TRAINING:**  
 • "Word 2007 Primer" will be offered at 1 p.m. in 4D11 East Ellis Library.  
 • "Flash 8.1: Vector Based Drawing" will be offered at 8:30 a.m. in N3 Memorial Union.  
 • "Illustrator CS2.2 Layers, Text & Colors" will be offered at 8:30 a.m. in 4D11 East Ellis Library. Registration is required, call 882-2000 or register online at [training.missouri.edu](http://training.missouri.edu).

### Wednesday, October 17

**COMPUTER TRAINING:**  
 • "XHTML: Image Maps and Meta Tags" will be offered at 1 p.m. in N3 Memorial Union.  
 • "InDesign CS2: Final Production, Print Settings, Preventing Problems" will be offered at 8:30 a.m. in 4D11 East Ellis Library.  
 • "Dreamweaver 8.1: Getting Started, Text & Publishing" will be offered at 8:30 a.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at [training.missouri.edu](http://training.missouri.edu).

### Thursday, October 18

**COMPUTER TRAINING**  
 • "Divide & Conquer Your Inbox" will be offered at 1 p.m. in 4D11 East Ellis Library.  
 • "Flash 8.4: Finishing Touches" will be offered at 1 p.m. in N3 Memorial Union.  
 • "XHTML 1: Links, Graphics & Lists" will be offered at 8:30 a.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at [training.missouri.edu](http://training.missouri.edu).

### Friday, October 19

**COMPUTER TRAINING:** "Excel 2003 Formatting and Printing" will be offered at 8:30 a.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at [training.missouri.edu](http://training.missouri.edu).

## Exhibits

### MUSEUM OF ART & ARCHAEOLOGY:

- "Daumier's Paris: Life in the 19<sup>th</sup> Century City" features lithographs by France's most famous printmaker and caricaturist. The exhibition, to be shown in three installments, runs through June 2008.
- "Ancient Glass from the Permanent Collection" demonstrates ancient glass manufacture techniques that date to Greek, Roman and Byzantine times.
- "South Asian Sculpture" features selections of Buddhist and Hindu sculpture, including stone reliefs from ancient Gandhara that show early Buddhist imagery.
- "Fifty Golden Years: Highlights from the Permanent Collection" celebrates the museum's 50<sup>th</sup> anniversary with an exhibit that represents a cross-section of the museum's major collections through Dec. 23.

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

### BINGHAM GALLERY:

- "What's the Big Idea? Art for Art Teachers" is on display through October 12. The exhibition showcases the creative research and coursework of MU art education students.
- "Represent" a group exhibit by master's candidates in art includes drawing, prints, ceramics, sculpture, fiber and installation works from Oct. 15-Nov. 1. An opening reception will be held from 4-6 p.m. Oct. 26.

The gallery, located in the Fine Arts Building, is open from 8 a.m.-5 p.m. weekdays.

**LIBRARY EXHIBIT:** Photos of butterflies by MU alumna Donna Brunet will be on display in Ellis Library's Bookmark Café through December.

### STATE HISTORICAL SOCIETY:

- "Picturing Native Americans in the 19<sup>th</sup> Century: Lithographs from McKenney and Hall's History of the Indian Tribes of North America" features 37 hand-colored lithographs of Native-American leaders who visited Washington D.C. during the first half of the 19<sup>th</sup> century. The exhibit, in the society's main gallery, runs through March 15.
- "Daniel Fitzpatrick: Artist/ Cartoonist" features fine art drawings by the former St. Louis Post-Dispatch editorial cartoonist through Oct. 19 in the corridor gallery.

### TIGER CONSERVATION EXHIBIT:

"Beauty and the Beast: Tigers Facing Extinction," an exhibit by Francis Owen, will be on display through Oct. 31 in Ellis Library, Jesse Hall and Reynolds Alumni Center.

## Lectures & Seminars

### Thursday, October 11

**ARTS & HUMANITIES LECTURE:** Susan Flader, professor emerita of history, will present "Living with Leopold" at 5:30 p.m. at the Conley House.  
**TIGER CONSERVATION LECTURE:** Richard Ellis, a research associate at the American Museum of Natural

History, will present "Threats From Illegal Trade: Tiger, tiger Burning Out;" at 4 p.m. in 106 Lefevre Hall.  
**HEALTH ETHICS LECTURE:** Daniel Sulmasy, chair in ethics at Saint Vincent's Medical Center in New York City, will present the annual Pellegrino Lecture, "Does Medical Ethics Need a Philosophy of Medicine," at 7 p.m. in the Reynolds Alumni Center. Edmund Pellegrino, chair of the President's Council on Bioethics and adjunct professor at MU's Center for Health Ethics, will respond. A reception will follow the lecture.

### Friday, October 12

**ENGLISH LECTURE:** Patricia Roberts-Miller, associate professor of English and of rhetoric and composition at the University of Texas-Austin, will present a lecture at 4 p.m. in 104 Tate Hall.  
**BIOCHEMISTRY SEMINAR:** James Shirley from Boston Biomedical Research Institute will present "Breaking the Rules for Chromosome Segregation: Mechanisms of Genetic Fidelity in Adult Stem Cells" at 1 p.m. in Monsanto Auditorium in the Life Sciences Center.

### Saturday, October 13

**SATURDAY MORNING SCIENCE:** Tim Glass, associate professor of chemistry, will present "Peering Into Cells With Fluorescent Chemical Sensors" from 10:30-11:30 a.m. in the Life Sciences Center's Monsanto Auditorium.

### Monday, October 15

**EUROPEAN UNION FELLOWS SEMINAR:** Rosemarie Muzika, associate professor of forestry, will present "Ecological Change in Central European Forests" at 4 p.m. in 305 Middlebush Hall.

### Tuesday, October 16

**MUSEUM LECTURE:** John Klein, associate professor of art history and archaeology, will present "The Art Museum as a Global Phenomenon: Bilbao and Beyond" at 5:30 p.m. in 106 Pickard Hall.  
**BIOLOGICAL SCIENCES SEMINAR:** Brian Husband from the University of Guelph will present "Population Biology of Polyploid Speciation: How Instantaneous Is It?" at 3:30 p.m. in the Life Sciences Center's Monsanto Auditorium.

### Wednesday, October 17

**PLANT SCIENCES SEMINAR:** James Eiser from Arizona State University will present "Biological Stoichiometry in Ecology, Evolution and Disease" at 3:30 p.m. in the Life Sciences Center's Monsanto Auditorium.  
**BIOLOGICAL SCIENCES SEMINAR:** Daphne Fairbairn from the University of California-Riverside will present "Sex, Size and Gender Roles: A Case Study of Adaptive Sexual Dimorphism" from 4 p.m. to 5 p.m. in 106 Lefevre Hall.

**Thursday, October 18**  
**LITERARY ARTS READING:** Novelist Bret Lott, a faculty member at the College of Charleston, will read from his works at 7:30 p.m. in the Reynolds Alumni Center.

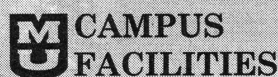
## SOUTHEAST GATEWAY

# Under Construction

Construction continues on medical and parking facilities in MU's Southeast Gateway.

### • Latest Updates:

- Hospital Drive and Virginia Avenue are both open to through traffic.
- Construction of the 2,000-vehicle parking structure is under way.
- Construction of a sanitary sewer main to support Southeast Gateway facilities is under way.
- Demolition of University Terrace buildings is complete and construction of temporary parking lots continues.



For more information, see  
[www.cf.missouri.edu/pdc/se-gateway.html](http://www.cf.missouri.edu/pdc/se-gateway.html)  
 or [www.muhealth.org/construction](http://www.muhealth.org/construction)

## Friday, October 19

## LITERARY ARTS LECTURE:

Novelist Bret Lott will present "Why Write, Anyway?" at 4 p.m. in 104 Tate Hall.

## BIOCHEMISTRY SEMINAR:

Stanley Rapport from the National Institute on Aging will present "Quantifying and Imaging Brain Arachidonic Acid Metabolism in Relation to the Treatment and Mechanism of Bipolar Disorder and to Neuroinflammation in Alzheimer Disease" At 1 p.m. in the Life Sciences Center's Monsanto Auditorium.

## Meetings

## Thursday, October 11

**STAFF COUNCIL:** The Staff Advisory Council will meet at 1:15 p.m. in S206 Memorial Union.

## Thursday, October 18

**FACULTY COUNCIL:** The Faculty Council will meet at 3:30 p.m. in S203 Memorial Union.

## Films

## Friday, October 12

**MSA/GPC FILM:** *Pirates of the Caribbean: At World's End* will be shown at 7 and 9:30 p.m. in Memorial Union's Wrench Auditorium. Cost: \$1.

## Wednesday, October 17

**RELIGION & PROFESSIONS FILM SERIES:** *George W. Bush: Faith in the White House* will be shown at 7 p.m. in Gannett Hall's Fisher Auditorium.

## Thursday, October 18

**MUSEUM FILM SERIES:** *American Movie*, a documentary directed by Chris Smith, will be shown at 7 p.m. in 106 Pickard Hall.

**MSA/GPC FILM:** *Grindhouse* will be shown at 8 p.m. today and Oct. 20 in Memorial Union's Wrench Auditorium. Cost: \$1.

## Special Events

## Saturday, October 13

**CHESTNUT ROAST:** The Missouri Chestnut Roast will be held from 10 a.m.-4 p.m. at MU's Horticulture and Agroforestry Research Center near New Franklin, Mo. The annual event features chestnut samples, tours of the center and events for children. More information is available online at [www.centerforagroforestry.org](http://www.centerforagroforestry.org).

## Friday, October 19

**STRICKLAND BUILDING DEDICATION:** The Board of Curators in April approved the renaming of the General Classroom Building to the Arvarh E. Strickland Building in honor of the emeritus history professor who was MU's first African-American faculty member. The dedication will be held at 10 a.m. in the Arvarh Strickland Building.

**TIGER AWARENESS EVENT:** The Mizzou Tigers for Tigers will host a membership drive, informational booth and prize drawing from 6 p.m. to 11 p.m. at the Delta Sigma Phi house in Greek Town.

## Drug-delivery system uses tiny nanoparticles

## DISEASE FIGHTERS

Device triggers supersonic shock waves

Using nanotechnology, MU engineering researchers have developed a small but powerful device capable of enhancing the delivery of drugs to treat life-threatening illnesses.

Classified as an advanced drug delivery system, the device has numerous capabilities for destroying tumors, kidney stones and ulcers, and treating cancer and HIV. Nanotechnology works with microscopic particles that are about one millionth the size of a strand of hair. At one cubic inch in size — comparable to four kernels of popcorn — Mizzou's device, which is now in the testing phase, is far smaller than similar delivery systems

that have been designed by other researchers.

The development effort was led by Shubhra Gangopadhyay, professor of electrical and computer engineering professor and head of the University's International Center for Nano/Micro Systems and Nanotechnology.

Similar to other nano/micro-scale devices by Gangopadhyay, this one also operates on a "dual-use" platform, which powers alternative energy and munitions systems for the U.S. military. By incorporating microchip-based technology with nanotechnology, Gangopadhyay fuses both technologies to trigger a reaction resulting in supersonic shockwaves.

For medical purposes, those shockwaves, along with nanoparticles, propagate into

the body to make infected cells permeable for drug interaction.

The device allows for a non-invasive procedure that uses the body's pores as entry points. The device can also disperse drug-carrying nanoparticles, referred to as nanosponge, into the body. Such sponges can target specific cells and areas that have been affected by disease. It also can deliver gold nanoparticles, a fluorescent material, into the body. By attaching to infected cells, the unique particles can allow doctors to track drug movement and the spread of disease throughout the body.

Gangopadhyay's collaborators are doctoral student Steve Apperson; post-doctoral research associates Andrey Bezmelnitsyn and Raj Thiruvengadathan; Dan Tappmeyer, an undergraduate chemical engineering major; and

Keshab Gangopadhyay, research professor of electrical and computer engineering. The team of engineers is working with Luis Polo-Parada, assistant professor of pharmacology and physiology at the Dalton Cardiovascular Research Center, to test the device.

Apperson says MU's nanoparticles contain no harmful components and aren't hazardous to the body. He says the device will require as many as three more years of testing before it's made available to pharmaceutical companies. Nems/Mems Works LLC will market the device and various nanoparticles associated with the research. The company is owned by the Gangopadhyays, Apperson and Martin Walker, who is director of administrative services in the college.

## Handheld device gives student performance feedback

## AIDING ASSESSMENT

New technology will boost testing performance

As the nation's teachers are continually pushed to show improvements in student outcomes, waiting until the end of the year for progress testing may be a little too late.

But now, due in part to a \$1.5 million grant from the U.S. Department of Education's Institute of Education Sciences and the research of Erica Lembke, MU assistant professor of special education, elementary teachers will soon be able to monitor student progress by entering data on an electronic handheld device, receiving immediate feedback on student performance.

Partnering with Wireless Generation, an education company known for mobile

and Web-based assessment and reporting tools, and Herbert Ginsburg and Young Sun Lee, professors at Columbia University's Teachers College, Lembke will help develop mCLASS: Math.

This handheld computer program enables teachers to give quick, one-minute assessments and follow-up diagnostic interviews and see resulting data immediately, creating a picture of student progress. The information can then be transferred to the teachers' computers, making the information immediately available to principals, special educators and parents.

"If your performance is judged on only one high-stakes test, you can see how that might be inadequate. This technology will enable teachers to catch children who are struggling,

predict who needs more help and boost performance prior to high stakes testing," says Lembke, who also is a trainer for the National Center on Student Progress Monitoring. "There are so many critical school factors that are tied to assessments, so having a system that teachers can believe in and trust is very important."

Modeled after her similar work with early elementary reading, Lembke has focused her research on Curriculum Based Measurement, an assessment method that helps teachers gather telling and practical data on student progress. This assessment method suggests that teachers administer a mini test to students once or twice each week.

From the test results, teachers can graph and track student progress. The new handheld program will make Curriculum Based Measurement easier and

less time-consuming for teachers. "There is a widespread concern about U.S. children's math performance," says Margaret Honey, senior vice president of research at Wireless Generation. "But we can turn the tide by starting in early school years and giving teachers the tools and insights into students' learning needed to deliver high quality, effective instruction."

By providing current data on how students are performing, teachers can modify their way of teaching to try to find an approach that will help meet academic goals. "We need to keep track of our students' academic performance and progress," Lembke says. "Educators are responsible for ensuring that kids are learning and this is a quick and simple way for teachers to assess and showcase their students' progress."

## 2007/2008 "We Always Swing" Jazz Series

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# No strings attached



Nicholas Benner photo

**TRADITIONAL THEATER** Tamon Sawayanagi, director of the 300-year-old Imada Puppet Troupe from the city of Iida in Japan's Nagano prefecture, gave a demonstration of the centuries-old art form Oct. 5 in Memorial Union's Wrench Auditorium. The troupe demonstrated music and puppetry techniques from the traditional theater.

## BUNRAKU

Traditional Japanese puppet troupe charms Mizzou audience

**M**ore than 200 people crowded into Memorial Union's Wrench Auditorium Oct. 5 to get a glimpse of traditional Japanese culture without ever leaving central Missouri. The cultural exchange was courtesy

of a visiting troupe of traditional Japanese Bunraku puppeteers. For nearly an hour, the Japanese visitors charmed their audience with an art form that originated centuries ago.

In Bunraku, a team of three master puppeteers manipulate a half-life size puppet to the accompaniment of traditional instruments. Some of the elaborately carved puppet heads this troupe uses are

more than 100 years old.

The performers were part of a troupe from Iida City in Nagano Prefecture south of Tokyo. Their journey to Columbia was initiated by Martin Holman, coordinator of MU's Japanese language program. As part of that program, Holman has organized a campus puppet troupe called Bunraku Bay. It is the only traditional puppet troupe active outside Japan.

Members of the MU troupe have traveled to Japan the past two summers to learn more from traditional troupes there. The MU students have performed at venues around the United States, including three performances this spring at the Smithsonian Institute.

Holman says he realizes that few, if any, of the students in MU's Bunraku troupe are likely to go on to professional careers in traditional Japanese puppetry. But the communications skills they learn and the cultural insights they develop could help them in international business situations. "They can still work between cultures," Holman says. "Their puppet experience will teach them how Japanese agree and disagree and negotiate."

# Far-reaching consequences

**A**t the Oct. 4 and 5 Board of Curators meeting in Columbia, board members worked on a number of issues that have far-reaching consequences for the University of Missouri System. They include:

## Retirement Fund return

With just under \$3 billion in assets, the University of Missouri's retirement fund posted a return of 19.69 percent for the fiscal year that ended June 30. The UM System's endowment fund balanced pool, with \$986 million in assets, performed almost as well, with a return of 18.02 percent over the same time period.

Robin Pellish, CEO of Rocaton Investment Advisors and an adviser to the University, reported to curators Oct. 5 that the retirement fund outperformed its benchmark by 1 percent last year. She attributed that performance to the fund being slightly overweight in its allocation to U.S. and international equities and slightly underweight in fixed income allocation.

The retirement fund has also outperformed its benchmark in the past three-, five- and 10-year periods. The endowment fund was about .7 percent behind its benchmark last fiscal year and was slightly underweight in U.S. equities.

As of June 30, 2007, 46 percent of assets in the retirement fund were allocated to U.S. equities, 22 percent to international equities, 1 percent to private equities, 18 percent to global fixed income, 4 percent to private real estate, 7 percent to emerging markets equities and 2 percent to absolute return. The allocation formula for the balanced pool is substantially the same.

Pellish noted that the board approved a change last fall to the funds' asset allocations which would reduce risk by moving up to 7 percent of assets from U.S. and international equities and into "treasury inflation protected securities."

## Endowed chairs report

Interim President Gordon Lamb reported that the UM System has 258 endowed chairs and professorships. He said that 86 percent of those positions currently are filled, and searches are under way for 34 of the 36 vacant positions. Lamb noted that 11 of those searches have been unsuccessful at least once. Mizzou has 151 endowed faculty positions with 136 of those positions filled and 15 positions open.

He stressed that endowed faculty positions are intended to

be filled with top-flight scholars, and recruiting the right person can be expensive, difficult and time-consuming. "These are not positions you advertise in *The Chronicle (of Higher Education)* and take whoever comes," Lamb said. It can take a long time to achieve the right fit, and the distinguished scholars who are being recruited usually are offered incentives to stay at their home institution.

Curator Don Walsworth said that he has talked with several donors who have endowed faculty positions and have been disappointed when the positions aren't filled. "They're saying, 'Hey, get somebody in there,'" Walsworth said.

MU is aggressively recruiting for all the endowed chair positions, Chancellor Brady Deaton told curators. "There is no incentive for not filling the position."

## Ensuring intellectual pluralism

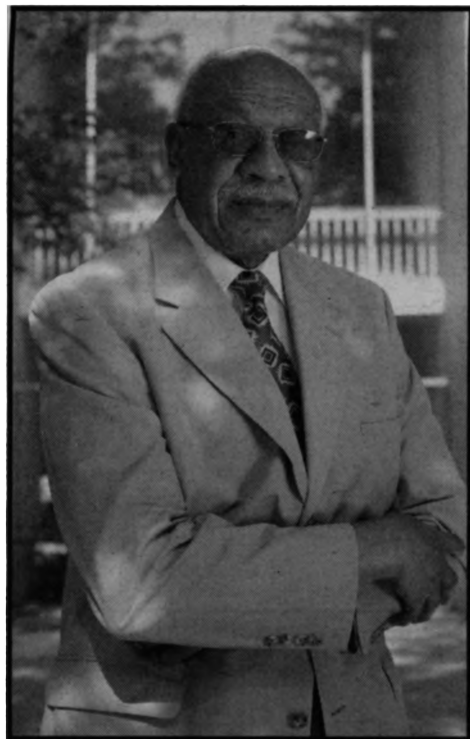
Steve Graham, UM System interim vice president for academic affairs, reported to curators on efforts to ensure intellectual pluralism, and he gave an update on campus initiatives. Graham said that each campus will establish an easily accessible Web site where students can register concerns or complaints about instructors.

Each campus will also designate an ombudsman to work with students to resolve issues and to report at the end of each academic year on the number and nature of complaints. Student affairs officials will include information about "viewpoint discrimination" in student orientation programs.

Graham said that teaching support programs will be enhanced to include discussion about how courses can be made relevant to broader segments of the discipline and of society. The support programs also will discuss how to create learning environments in which diverse individuals and viewpoints are valued and respected.

In a campus progress report, MU reported that Michael Prewitt, associate vice provost and director of the Office of Student Rights and Responsibilities, has been designated as the ombudsman to work with students and faculty on intellectual diversity issues. That office also has established a new Web site for students and faculty at [osrr.missouri.edu](http://osrr.missouri.edu).

Also at MU, student affairs officials are working with student representatives to develop a Web-based form for students to report concerns or complaints about discrimination. Students and



Chancellor Brady J. Deaton cordially invites you to

a naming ceremony for the MU General Classroom Building

in honor of

**Dr. Arvarh E. Strickland**

Friday, October 19, 2007  
10 a.m.

Brady Commons Mall

Refreshments will be served at 9 a.m. before the ceremony on the west side of the building

Parking available in Turner and Virginia Avenue parking garages

The ceremony is being held in recognition of Dr. Strickland's distinguished service. The University of Missouri Board of Curators approved the building naming in April after MU students in the Legion of Black Collegians, the Missouri Students Association and the Residence Halls Association passed joint resolutions of support for the naming. Dr. Strickland, Mizzou's first African-American professor, joined the University in 1969.



University of Missouri-Columbia

**Continued from Page 6**

parents will be given information about viewpoint discrimination at Summer Welcome sessions and in publications.

MU's report also pointed to ongoing efforts to promote

intellectual pluralism through such campus programs as the online *Teaching at Mizzou Guide*, the annual Teaching Renewal Conference, the Difficult Dialogues Initiative and the Chancellor's Diversity Initiative.

Curator David Wasinger stressed that intellectual pluralism is a national issue on college campuses, and he congratulated University officials for "a fantastic start" in tackling the issue. "What I think this tells the legislature is, 'Hey, we can mind our own store,'" Wasinger said.

Provost Brian Foster pointed out that MU's Faculty Council recently approved a statement that faculty can use in their course syllabus:

"The University community welcomes intellectual diversity and respects student rights. Students who have questions concerning the quality of instruction in a class may address concerns to either the Departmental Chair or divisional leader or director of the Office of Students Rights and Responsibilities. All students will get the opportunity to submit an anonymous evaluation of the instructor(s) at the end of the course.

**New general counsel named**

The board announced that Kansas City attorney Stephen Owens will become the University's next general counsel. He will succeed Marvin "Bunky" Wright, who will retire as general counsel Dec. 31. Owens, who will start his new job Jan. 22, is a partner and chairman of the class action and complex litigation division of Kansas City-based Stinson Morrison Hecker, LLP. The firm has 360 lawyers in eight offices including St. Louis and Jefferson City, Mo.

Owens has been the firm's hiring chairman and a member of its board of directors and executive committee. His broad-based practice has included business litigation, collegiate sports law, environmental law, drafting and negotiating contracts, and administrative law. His private practice has included work as outside counsel for the University of Missouri.

A 1977 MU graduate with

a BS in public administration, Owens was the third generation of his family to attend the University, and one of his three sons is now a freshman at Mizzou. Owens received his law degree from Wake Forest University in 1980.

"This is the University of four generations of my family and I am humbled by this appointment. I have been privileged to represent the University as one of its outside counsel and I want to thank the Board of Curators for now giving me the opportunity to further serve our University as its general counsel," Owens said.

Owens and his family have supported the University through the years, including membership in MU's Jefferson Club, and by establishing scholarships. Owens has also served on the MU Development Council and the MU Parents Council.

**Text of resolution on academic freedom**

Here is the text of a resolution passed Oct. 5 by the University of Missouri Board of Curators:

Whereas, The University of Missouri has provided teaching, research and service to Missouri, the nation, and the world since 1839 when it became the first publicly supported institution of higher education established in the Louisiana Purchase territory, and

Whereas, The University is guided by Thomas Jefferson's philosophy that the freedom and prosperity of a democratic society is dependent upon an informed and well-educated citizenry, and

Whereas, The University seeks to promote the common good through the conduct of enlightened teaching, world-class research, devoted service to humanity, and respect for intellectual diversity, and

Whereas, The University is fortunate to have a faculty composed of distinguished teachers and researchers whose

achievements in the pursuit of knowledge and inquiry are admired and respected throughout the world, and

Whereas, Academic freedom in teaching and research is fundamental to the advancement of truth, and

Whereas, These broad principles are set forth in Section 310.010 of the Collected Rules and Regulations of the University of Missouri,

Now, therefore, be it resolved, that the Board of Curators of the University of Missouri hereby commends statements of support for these principles by President Gordon H. Lamb, the Chancellors, and the Intercampus Faculty Council, and

Be it further resolved, that the Board of Curators reaffirms its unwavering commitment to the principles of academic freedom and intellectual inquiry that are the foundation of the American Land-Grant and Research University.

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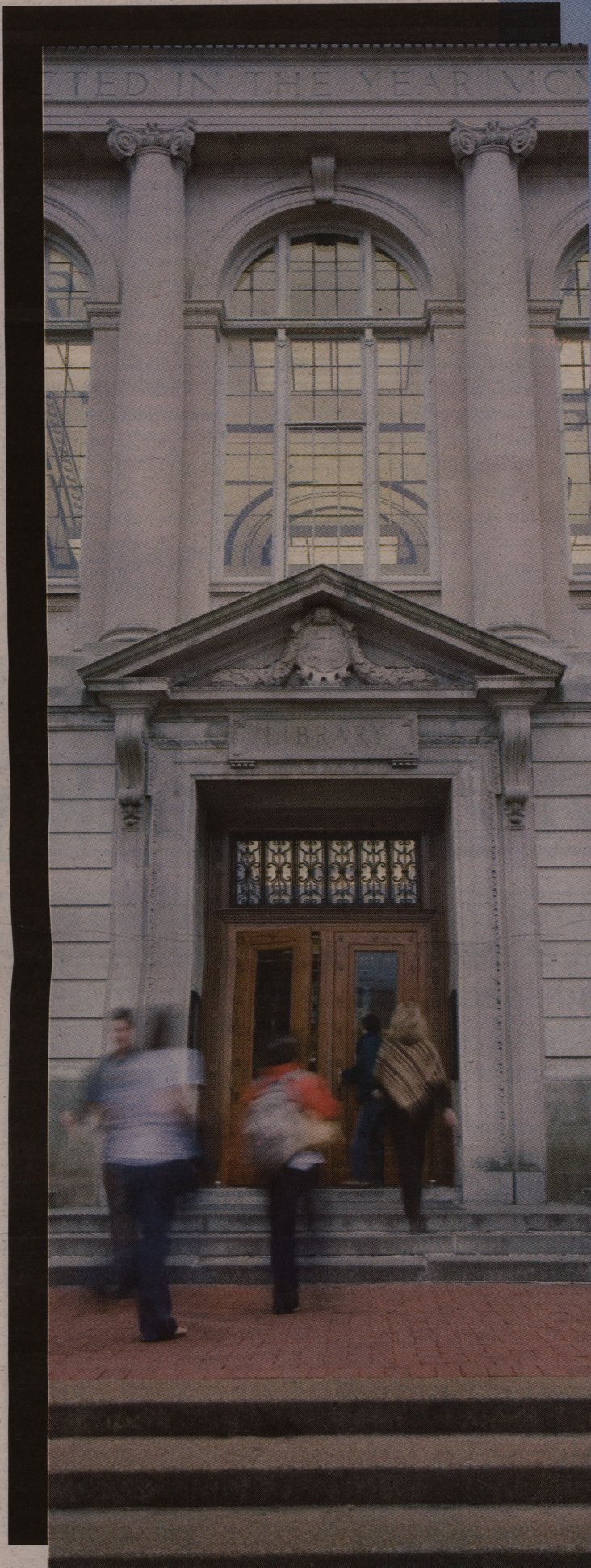
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