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Class helps students evaluate and improve their learning skills.
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Black and Gold — and Green
Mizzou's energy conservation program is making great strides.
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Nov. 30, 2006

University of Missouri-Columbia

Next week's Mizzou Weekly will be the last of the semester.



A holiday happening

SEASON'S GREETINGS
Residence on Francis Quadrangle is a "living lab" for students

A flurry of holiday preparations were under way Nov. 17 at the Residence on Francis Quadrangle, the home of Chancellor and Mrs. Brady Deaton. Kim Cottrell and her colleagues from Tiger Garden, MU's student-run floral shop, pitched in to help decorate the residence with wreaths and floral arrangements. Members of the College of Education Ambassadors decorated a tree with ornaments made by students from Columbia's Lee Elementary School.

DECK THE STAIRCASE

Kim Cottrell, a landscape design major from Monticello, Mo., was one of a half-dozen MU students who helped decorate the Residence on Francis Quadrangle Nov. 17 for the holiday season. Cottrell and her colleagues work with Tiger Garden, a student-run floral operation housed in the Agriculture Building that gives student entrepreneurs the experience of running a retail floral shop.
Nicholas Benner photo

All the decorations were being done to prepare the historic residence for an upcoming visit from the Women's Symphony League's 2006 Holiday House Tour on Dec. 2 and 3.

The student crew from Tiger Garden put up three Christmas trees in the residence and decorated the home's three fireplace mantles with arrangements of mixed green garlands that included peacock feathers and pinecones. The theme of the holiday decorations was "peace and goodwill for the holidays," and the tree decorations included homemade clay ornaments that represented doves and snowflakes.

Tiger Garden is a full-service floral shop operated by students in the College of Agriculture, Food and Natural Resources. Its mission is to expand the educational opportunities for students by combining traditional textbook learning with hands-on business experience in an entrepreneurial environment, says Mary Ann Gowdy, the group's faculty adviser and a resident instruction assistant

professor in plant sciences.

The Nov. 17 outing wasn't her students' first encounter with the residence, Gowdy says. Throughout the year, the Residence on Francis Quadrangle is a "living lab" for students. They tend the plants that highlight what is the oldest building on campus, making sure they get the proper nutrition and keeping an eye out for insect pests.

Tiger Garden is also a resource for MU faculty, staff and members of the University community, Gowdy says. "Basically we are trying to be a full-service floral shop to the campus community. She suggests that those folks who are in the holiday spirit might want to stop by the shop at 2-34 Agriculture Building to check out the wide assortment of poinsettias that her students have grown in MU greenhouses for the holidays. "Or, they can visit our Web site at tigergarden.missouri.edu to see what's available," she says.

For more information about the 2006 Holiday House Tour, call the Missouri Theatre Center for the Arts at 875-0600.

Joint study is 'a new model of town-gown cooperation'

OPPORTUNITY UNLIMITED

City, campuses explore downtown options

Ever since its founding in 1839, MU has been making a major impact on its hometown. In many ways, Columbia is the kind of town it is because of the University's presence. The college-town ambiance even draws people to Columbia who don't have any formal connection to the campus.

Earlier this year, MU joined with the city of Columbia, Stephens College and the local business community to explore ways they could all cooperate to revitalize a section of downtown that begins one block south of Broadway and runs between Providence Road and College Avenue. The initiative — called the Campus/City Opportunity Study — is being coordinated

by Boston-based consulting firm Sasaki and Associates, which has helped MU with its master planning efforts for more than two decades.

The idea of the study, say University and city officials, is to bring in outside experts who can take an objective look at the area and identify trends and opportunities. The study has several goals, Fred Merrill, a principal with Sasaki, told an Oct. 25 public forum.

"The study will look at how you can leverage established campus and city resources for a new model of town-gown cooperation," Merrill said. "It also will identify the kind of use changes that can spur a robust mix of institutional, public, commercial and cultural development." In the process, planners also hope to identify short- and long-term

approaches that the parties can take to revitalize the area.

Two more public forums are scheduled at 7 p.m. Dec. 13 and Jan. 10 at the Top of the Tiger in the Tiger Hotel.

Merrill stressed that the study is not meant to be a long-term master plan with the outcomes already decided and specific projects identified. "We want this study to provide a platform for everybody to talk to each other," he said. "It is an opportunity to rethink the interface between the campuses and downtown."

As a university town, with a younger, highly educated population, Columbia can capitalize on its position as a "knowledge city" that boasts what Merrill called "the three T's" — technology, talent and tolerance. "As a college town," he said, "you have a kind of intellectual DNA, if you will."

At an initial meeting in August, Sasaki consultants talked with the public about what they would like to see in that area of downtown.

"The first thing we heard was 'residential,' all different types of residential. We heard about art, culture and entertainment, and we heard a lot about retail and restaurants," Merrill said.

Participants at that first meeting also talked about safe, clean streets and the need for more public and civic spaces. They also identified a need for better "connections," Merrill said, such as convenient and adequate parking, alternative forms of transportation and attractive links to neighborhoods.

As part of its study, Sasaki identified a total of nearly 25 acres of property spread throughout the area that is "underutilized." Merrill explained

that criteria for labeling a site as underutilized included: single-story buildings with inactive frontage, a large percentage of surface parking, buildings without historical or architectural significance, and opportunities for a "higher and better" use.

The total underutilized acreage could accommodate between one million and two million square feet of development, which could include 600 to 700 units of multifamily housing.

Planners identified those sites without considering ownership or present use, said Gary Ward, assistant vice chancellor for facilities. "They were not interested in 'whose?' they were interested in what the site is being used for," Ward said. "Some of the great university-city relationships are ones

SEE Town-Gown on Page 7

Midnight munchies

This annual event gives a whole new meaning to the phrase "cramming for finals." MU faculty and staff serve students a hearty — and free — midnight breakfast of pancakes, sausage, coffee and orange juice as finals week begins. This semester the event will be held beginning at 10 p.m. Sunday, Dec. 10, in the Brady Commons food court and runs until 12:30 a.m. Dec. 11.

This past May, the volunteer staff served up 2,344 meals to students, says Joseph Hayes, assistant director of Missouri Student Unions. It's a neat way to get the campus

community to come together, he says, and the breakfast also kicks off the round-the-clock open hours for finals week at both Brady Commons and Memorial Union.

The event can always use a few more volunteers to greet students and serve the breakfast bounty, Hayes says. "It's a great way for faculty and staff to interact with students outside of class." Volunteers can call Hayes at 882-9123.

Getting physical

As baby boomers age and require more medical attention, it will trigger more career

opportunities in the allied health professions. A recent CNN report found that 56,000 new physical therapy jobs will be available by 2014, and the pay will average more than \$60,000 a year.

MU's Department of Physical Therapy will host an open house from 1 to 4 p.m. Friday, Dec. 1, in 106 Lewis Hall to recruit high school and college students to choose physical therapy as their college major. Physical therapy staff and students will be present to answer questions, and visitors will have an opportunity to visit a physical therapy class in session.

Mark our calendar

The fall semester is winding down, but it's not too early to start thinking of all the events that will crowd our calendars in the upcoming winter semester. At the beginning of each semester, Mizzou Weekly publishes an events calendar that highlights all the exhibits, meetings, lectures, concerts and theater productions that make MU such a vibrant place to work.

We will publish the 2007 winter semester calendar in the Mizzou Weekly edition of Feb. 1. The deadline for submitting calendar items is noon, Thursday, Jan. 18. With

questions about submissions, call 882-5918 or e-mail BeahlerJ@missouri.edu.

Yuletide tradition

For many families, Christmas just wouldn't be Christmas without the scent of a fir tree wafting through the house. The members of MU's Forestry Club are continuing their own holiday tradition of providing the community with a convenient supply of trees to choose from at their annual Christmas tree sale.

The sale begins today, Nov. 30, and runs through Dec. 3 on the east side of

Research breakthrough helps plants fight off infection

DISEASE FIGHTERS

Scientists find peptides that help plant disease resistance

MU researchers are fortifying plants with a new form of defense to fight infection. The scientists have identified peptides that when produced in plants protect the roots of agricultural crops such as tomatoes, melons, peppers and squash against invasion by *Phytophthora capsici*, a dangerous pathogenic microorganism.

The research breakthrough by Frank Schmidt and James English is expected to help plant scientists better understand how to combat a variety of diseases, including

Asian soybean rust, a soybean disease that was introduced to the United States around 2004 as a result of winds from Hurricane Ivan.

"There's a constant search for new types of resistance for plants," says English, a professor of plant pathology. "This research is about developing and applying new technologies that will help plants defend themselves. Our hope is that the deployment of these peptides will protect against the invasion and killing of plants by keeping pathogens from invading their roots."

During the study, Schmidt and English relied on a library of one billion laboratory-created

peptides. They worked first with tomato pathogens and then tomatoes. They mixed the peptides with *Phytophthora capsici* and monitored which peptides stuck to the pathogen most effectively — signifying a strong chemical interaction. Afterwards, they tested the effects of the most interactive peptides on the growth and development of the pathogen. English said that 50 percent of the peptides that stuck strongly produced an inhibitory reaction that could be useful in defending tomatoes against the pathogenic microorganism.

"Having these peptides in hand was only the first step in practical


application for plant defense," English says. "What was also needed was a means to deliver the peptide to provide protection against the pathogen. To do that, we modified a plant protein to display the peptide. When this combination was expressed in the plant, it provided protection from infection."

Both researchers said the positive findings could accelerate the development of more environmentally safe solutions for fighting infections that could potentially damage large areas of plants, trees or consumer crops.

"What this shows is that we can do test-tube evolution quickly and use the results to

engineer resistances for plants," says Schmidt, professor of biochemistry. "By engineering these resistances, we don't have to fumigate the soil, which has horrible environmental consequences."

Their study has been published online in the Proceedings of the National Academy of Sciences of the United States of America (PNAS).




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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.

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Memorial Stadium. Trees such as Scotch pine and balsam fir will be available from 8 a.m. to 8 p.m. each day. Christmas wreaths will be on sale as well. Delivery is available to a limited area for an additional fee. For more information, e-mail Chris Lohmann at calppf@mizzou.edu.

Continuing contributions

Long after they retire from active service, MU faculty and staff continue to make significant contributions to the University and to the community. Each year, the chancellor's retiree advisory

committee honors those ongoing contributions by recognizing two MU retirees, one a faculty member and the other a staff member, with the Retiree of the Year Awards.

The deadline to nominate a retiree for next year's award is Feb. 1. Nominees are recognized for their accomplishments since retirement, and must have been retired for at least five years. Nomination forms are available from 319 Jesse Hall, and nominations should include a letter outlining the nominee's accomplishments since retirement and personal information about

the nominee. For more information, call 882-9150.

Early intervention

The occupation of a child is play. Sometimes, when certain problems stand between a child and normal play, the help of an occupational therapist is needed. MU's School of Health Professions is completing its first year of providing this type of help for children through a pediatric clinic staffed entirely by occupational therapy students, supervised by a licensed therapist.

"In the past, services were often not provided to children

until they were of school age. Research shows that early intervention is best because the brain is more capable of change during that period of time. So, especially for children with long-term issues, early intervention can help address any challenges a child may be experiencing before they are set and become an even greater hurdle," says Lea Ann Brittain, clinical instructor of occupational therapy and clinic coordinator.

The clinic provides evaluations for children of all ages, but the majority are of pre-school age. Brittain says the children could

experience anything from difficulty with handwriting and dressing themselves to poor coordination and fine motor skills. The evaluation helps pinpoint the problem and the cause. Children in need of occupational therapy range from children with cerebral palsy or autism spectrum disorders to prematurity or developmental delay.

MU's energy-saving initiatives are black and gold — and green

POWER MISER

Energy conservation gets the green light at Mizzou

For more than a decade now, MU has been taking some giant steps forward in energy conservation. Those efforts have been rewarded with national and state awards, and the campus has been reaping environmental benefits and significant savings in energy costs.

Speaking to a meeting of campus building coordinators in late October, Paul Hoemann, director of MU's Energy Management department, provided some figures that put those ongoing efforts into perspective. Since 1996, Energy Management has achieved a 16 percent reduction in energy use per square foot of building space. If the campus had not taken those energy-saving steps:

- Mizzou would be spending \$3.8 million more on energy each year.

- The reduction in energy use is equivalent to taking nearly 16,000 cars off the highways or planting nearly 25,000 acres of trees each year.

- The annual cost savings are the equivalent of funding three campus degree programs, annual tuition savings of \$155 for each MU student or 64 full-time staff positions.

Most homeowners do what they can to hold down energy costs, but they probably don't have the kind of resources that MU has devoted to energy conservation — engineers to track energy use and develop money-saving solutions, and architects and designers trained to incorporate energy conservation into new building plans and develop long-range programs to retrofit existing buildings with the latest energy-saving technology.

Since 1990 Energy Management has replaced virtually all of the campus'

exterior lighting and 90 percent to 95 percent of all interior lighting from conventional bulbs to high-efficiency lighting. They have installed thousands of motion sensors to control the lighting in offices, classrooms and auditoriums.

Those motion sensors automatically turn off or dim lights in areas that aren't being used. For instance, hallways in some buildings were once lighted around the clock. Now, automated dimmers light the hallways only when they're occupied and use just 5 percent of the electricity needed for full lighting. "Because of the 24/7 nature of hallway lighting, this technology saves a lot of money," Hoemann says.

Energy Management has also installed automated heating and cooling controls in 100 campus buildings. Thirteen miles of buried fiber optic cable connects 60,000 individual control points to fine-tune energy efficiency.

As part of the program, high-efficiency motors have replaced outdated motors on pumps and fans in the system.

And the campus is looking at using alternative fuels in MU's co-generation power plant which produces electricity and the steam that heats and cools campus building. Energy Management recently began testing a coal-corn cob blend in the power plant's furnaces, and it already burns a mix of chipped car tires that have been cleaned up from illegal waste tire dump sites.

But it doesn't take an engineering degree to conserve energy at Mizzou, Hoemann says. Every member of the University community can help. Between 30 percent and 50 percent of a building's energy use is from lighting. If you're not going to be using a room, turn off the lights, office equipment and computers, Hoemann says. "That might seem like a small step to take, but if we all chip in and do our

part, it will make a difference."

Faculty and staff also should report any problems they see, he says. "If you see external doors that don't close tightly or anything else that makes you say, 'This is wasting energy; something should be done about this,' call Campus Facilities customer service center at 882-8211."

As part of the effort to increase campus involvement in energy conservation, Jackie Jones, vice chancellor for administrative services, recently named an energy conservation task force of which Hoemann is chair.

The task force, which held its first meeting earlier this month, is made up of students, faculty and staff from across campus. Its charge is to identify MU's past energy conservation successes, brainstorm additional energy-saving opportunities and bring forward possible new energy conservation solutions and ideas for the campus to consider.

NCAA certifies Mizzou athletic programs

SELF-STUDY

Work by campus committee began in 2004

The NCAA Division I Committee on Athletics Certification announced last week that MU has been certified. An institution that has been certified is considered to be operating its athletics program in substantial conformity with NCAA's operating principles.

"I am extraordinarily pleased to receive the report from the NCAA Division I Committee that MU, based on our athletics self-study, has been certified," said Chancellor Brady Deaton. "This report reaffirms the hard work, integrity and commitment

shown by everyone involved in our athletics program. I also want to thank those who worked so hard during the self-study to assure this recognition of Mizzou athletics as a major Division I program."

The athletics certification process, which is meant to ensure the NCAA's fundamental commitment to integrity in intercollegiate athletics, was initiated in 1989. The core of the certification process is the institution's self-study in which campuswide participation is critical. Benefits of the self-study include increased self-awareness and an opportunity to educate individuals across campus and the community about the athletics program's goals and purposes,

affirmation of the aspects of the athletics program worthy of praise, and opportunities to improve.

MU's self-study steering committee, chaired by Michael Devaney, began the self-study in December 2004. Other members of the committee included Chancellor Deaton, Michael Alden, Mary Austin, Bob Bailey, Lori Franz, Gail Ludwig, Bryan Maggard, Michael Middleton, Michael Prewitt, Sarah Reesman, Brenda Selman, Carl Settergren and Handy Williamson.

"We were a great team, and I would like to thank all for their substantial effort to bring this ten-year certification about," said Devaney. "Special recognition

is due to Mary Austin for her many contributions on several fronts and our chancellor, Brady Deaton, who really 'carried the ball' in the final phases of the process."

The self-study was reviewed by the NCAA Committee on Athletics Certification and followed by a visit from a peer-review team of selected individuals from Division I institutions or conferences with knowledge of intercollegiate athletics. The NCAA's committee on certification rendered its decision based on the self-study and the peer review team's report. "Today's athletics programs are complex operations and benefit from the comprehensive review conducted by the NCAA

and the peer review team," said Athletic Director Mike Alden. "To receive this certified status is both fulfilling and reflective of the commitment our staff has to upholding the principles of institutional control and responsibility.

"This result is demonstrative of the cooperative relationship the department has with the rest of our campus community. I would like to commend everyone who was so involved in this self-study, from the steering committee and sub-committee members, and specifically Dr. Michael Devaney, who chaired this endeavor."

A complete copy of MU's self-study along with other relevant documents are available online at www.mutigers.com/compliance/2006certification.html.

calendar



Concerts & Plays

Thursday, November 30

JAZZ SERIES: Paquito D'Rivera and his quintet will perform in the Dr. Carlos Perez- Mesa Memorial Concert at 7 p.m. at the Missouri Theatre. For more information and tickets, call 449-3009.

THEATER SERIES: *Touch*, an original play by Toni Press-Coffman directed by Cece M. McFarland, will be performed at 8 p.m. today and Dec. 1 and 2, and at 2 p.m. Dec. 3 in the Corner Playhouse. Press-Coffman will discuss her work following the Nov. 30 performance; tickets are required to attend the discussion. For ticket information, call 882-PLAY.

SHOW-ME OPERA: MU's Show-Me Opera will perform at 8 p.m. in Whitmore Recital Hall. Suggested donation: \$5; free for MU students.

Friday, December 1

UNIVERSITY CONCERT SERIES: The Minnesota Ballet will perform *The Nutcracker* at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781 or visit www.concertseries.org.

Saturday, December 2

AUTHOR READING: Visiting playwright Toni Press-Coffman, author of *Touch*, will read from her work at 2 p.m. in the Corner Playhouse. A reception will follow.

Sunday, December 3

UNIVERSITY CONCERT SERIES: The Moscow Boys Choir will present their Christmas Around the World tour at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781 or visit www.concertseries.org.

THEATER SERIES: *Scrooge & Marmaduke: A Missouri Christmas Carol*, written by MU theater doctoral student Mary Barile, will be presented at 4:30 p.m. at Thespian Hall in Boonville. The event is free and open to the public.

Monday, December 4

JAZZ SERIES: Medeski Scofield Martin & Wood will perform at 7 p.m. at the Blue Note, 17 N. Ninth St. For information and tickets, call 449-3009.

UNIVERSITY CONCERT SERIES: Vocalist Anne Murray will perform her hits along with some holiday favorites at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781 or visit www.concertseries.org.

Thursday, December 7

UNIVERSITY CONCERT SERIES: The Columbia Chorale will perform Handel's *Messiah* at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781 or visit www.concertseries.org.

Friday, December 8

THEATER SERIES: *Scrooge & Marmaduke: A Missouri Christmas Carol*, written by MU theater doctoral student Mary Barile, will be presented at 8 p.m. in Columbia's First Baptist Church, 1112 E. Broadway. The event is free and open to the public.

Conferences

Thursday, November 30

NURSING CONFERENCE: The 18th Annual Gerontology Nursing Conference will be held through Dec. 1 at the Peachtree Banquet Center. For a complete schedule and registration information go to nursingoutreach.missouri.edu/.

Courses & Workshops

Sunday, December 3

ART WORKSHOP: The Museum of Art and Archaeology will host "Fantastic Creatures in Art!" a workshop for children grades K-8. Children must be accompanied by an adult. Admission is free and open to the public.

Monday, December 4

COMPUTER TRAINING: "Collaborate MU/SharePoint 2003 Workspaces & Office Integration" will be offered at 1 p.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at training.missouri.edu.

Tuesday, December 5

COMPUTER TRAINING: • "Flash 8 3: Buttons & ActionScript" will be offered at 1 p.m. in 4D11 East Ellis Library. • "Excel 2003 Function Fun" will be offered at 1 p.m. in N3 Memorial Union.

• "Outlook: Divide & Conquer Your Inbox" 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.

Wednesday, December 6

COMPUTER TRAINING:

• "Photoshop CS2: Colors, Masks & Saving for the Web" will be offered at 1 p.m. in N3 Memorial Union. • "Access 2003 Macros & Data" will be offered at 1 p.m. in 4D11 East Ellis Library. • "Excell 2003 for Starters" 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.

Thursday, December 7

COMPUTER TRAINING:

• "Creating Web Pages" will be offered at 1 p.m. in N3 Memorial Union. • "Illustrator CS2 3: Transformations" will be offered at 1 p.m. in 4D11 East Ellis Library. • "Page Layout With Cascading Style Sheets" 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.

ART WORKSHOP: The Museum of Art and Archaeology will host a workshop for children grades K through 8, focusing on "Animals in Art" at 2 p.m. in Pickard Hall. Admission is free and open to the public.

Exhibits

MUSEUM OF ART & ARCHAEOLOGY:

• "South Asian Sculpture" features selections of Buddhist and Hindu sculpture from the museum's permanent collection. • "The Forgotten Art of Engraving" is on display through July 2007. It explores the history of engraving technique and displays prints by such masters as Albrecht Durer, Hendrick Goltzius and William Blake. • "The Art of the Book: Illustration and Design, 1650 to Present" will run through Dec. 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 and Sunday.

STATE HISTORICAL SOCIETY:

• "*The Adventures of Tom Sawyer* as Illustrated by Thomas Hart Benton" is on display in the main gallery through Dec. 16. The exhibit highlights original pen-and-ink drawings Benton created to illustrate a 1939 special edition of Mark Twain's works. • "Careless Talk: World War II Posters from the William Copeland Collection" is on display in the corridor gallery through Dec. 9. • "Artists/Friends: The Adolf and Rebecca Schroeder Collection" includes works by Missouri artists through December 30.

Lectures & Seminars

Thursday, November 30

INTERNATIONAL AFFAIRS SEMINAR: Roger Gafke, professor emeritus of journalism and director of program development at the Reynolds Journalism Institute, will present

"Al Jazeera, the Near Eastern News Organization, Reaches Its 10th Birthday — and Comes to the United States" at noon in S203 Memorial Union.

Friday, December 1

ASIAN STUDIES LECTURE:

J. N. Mohanty, professor of philosophy at Temple University, will present "The Nature of Spirituality in 20th Century India" at 10 a.m. in 1 Arts & Science Building.

CIVIL ENGINEERING SEMINAR:

Bill Kremer from Shannon & Wilson in St. Louis, will present "The Case of Disappearing Lake Chesterfield, St. Louis County" at 3 p.m. in E1419 Laffer Hall.

ROMANCE LANGUAGES SEMINAR:

Mamadou Badiane, assistant professor of Spanish, will present "Afro-Cuban Religions: Syncretism or De-Africanization" at 4 p.m. in 114 Arts & Science Building.

Saturday, December 2

SATURDAY MORNING SCIENCE:

Mitch Schulte, assistant professor of geological sciences, will present "Extreme Environments: Keys to Life's Origins" at 10:30 a.m. in the Life Sciences Center's Monsanto Auditorium. This lecture series is intended for everyone with an interest in science.

Tuesday, December 5

MU LIBRARIES LECTURE:

Marjorie Skubic, associate professor of electrical and computer engineering, will present "Technology for Successful Aging" at 11 a.m. in 201 Ellis Library.

Wednesday, December 6

PHYSICS LECTURE:

Mikael Wood, a graduate student in physics, will present "Planets in Motion: Revolutionary Ideas of Sir Isaac Newton" at 12:15 p.m. in the European and American Gallery in Pickard Hall.

ECOLOGY & EVOLUTION SEMINAR:

Malvika Talwar, a doctoral candidate in biological sciences, will present "Evolution of Signal Frequency in *Neonococephalus*: A Study of Perceptual and Environmental Sources of Selection" at 4 p.m. in 106 Lefevre Hall.

Friday, December 8

ORTHOPAEDIC SURGERY SEMINAR:

Thomas Aleto, assistant professor of orthopaedic surgery, will conduct a community seminar on hip and knee replacement surgery at 3 p.m. in the Columbia Activity and Recreation Center, 1701 W. Ash St.

Saturday, December 9

SATURDAY MORNING SCIENCE:

Don Burke will present "What Does Synthetic Biology Tell Us About the Origin of Life" at 10:30 a.m. in the Life Sciences Center's Monsanto Auditorium. This lecture series is intended for everyone with an interest in science.

A taste of Navy life

SEAFOOD MU is one of two colleges in Navy's Adopt-a-Ship food-service program

A crew of six MU students and their instructor set sail out of San Diego, over the Thanksgiving break to assist culinary specialists onboard USS Rushmore with holiday meal preparations and service.

They participated in the United States Navy's Adopt-a-Ship program, which brings food industry professionals to work in galleys to provide Navy personnel with continuing education in culinary arts.

The MU hotel and restaurant management students are Greg Chase, Chesterfield, Mo.; Natalie Kollars, Davenport, Iowa; David Winfrey, Sibley, Mo.; and Emmitt Joyner, Michael Rangel and Greg Lindsay, all of St. Louis. The students and Chef Leslie Jett, instructor in the HRM program, left Columbia Nov. 19 and

returned to campus Nov. 24.

"MU is one of two college-level culinary programs participating in the Adopt-a-Ship program," Jett says.

It's the third year he has taken MU students onboard a Navy ship during the holidays. In 2005, students helped prepare Thanksgiving meals aboard the USS Peleliu, an 833-foot amphibious assault ship with a crew of 882 plus 82 officers docked in San Diego. Three years ago, students worked on the USS Kaufmann and the USS Eisenhower.

This season, students got to go to sea. "The students aren't in for a luxury cruise," Jett says. "Being out to sea will be a whole different experience. Students probably will be working 14 hours a day."

They sailed from San Diego with a crew of 332 and 22 officers for training operations. The Rushmore is a 609-foot landing dock ship that carries up to 600 troops to combat

areas and then launches landing craft and helicopters during amphibious operations.

Navy culinary specialists onboard must prepare four meals a day. Breakfast preparation starts at 4:30 a.m. followed by lunch and dinner. In addition, a fourth meal of midnight rations — known as mid-rats — must be prepared for crew members working through the night. "The ship is in operations 24 hours a day when underway," Jett says.

MU students learned about the Navy Standard Core Menu cycle, designed to standardize food service throughout the fleet while providing nutritious meals. The cycle is undergoing pilot testing on Rushmore. They also took part in collateral duties such as manning battle stations drills and man overboard drills. When the ship returned to port, students helped prepare and serve Thanksgiving dinner to the officers and enlisted men. Many of the sailors brought their families onboard for the meal.

Good things in small packages



Nicholas Benner photo

POWER TO CURE University leaders and elected officials, including, from left, Curator Tom Atkins, UM President Elson Floyd, U.S. Sen. Kit Bond and MU Chancellor Brady Deaton, broke ground Nov. 20 for MU's new International Institute for Nano and Molecular Medicine, located near the research reactor.

NANOMEDICINE

New MU institute will spur research in cancer cures

Size does matter, but in this case, the smaller the better. With the Nov. groundbreaking of MU's new International Institute for Nano and Molecular Medicine, MU scientists will soon be using nanoparticles, or materials that are 100,000 times smaller than the width of a human hair, to unlock secrets to some very large problems.

"This is a new era of medicine — for the University and the world," said Senator Kit Bond. "The Institute for Nano and Molecular Medicine is another step in enhancing the world-renowned research taking place on this campus."

The building, which will cost approximately \$10 million, is slated to open at the end of 2007. It will serve as a base of operation for uniting a variety of MU researchers and resources.

Fred Hawthorne, professor of radiology, will lead the research teams at the institute. Hawthorne, a member of the National Academy of Sciences, came to MU specifically to lead the research teams at the institute. With the addition of the building, Mizzou will be the only university in the

country with this type of research facility in addition to a research reactor, a medical school, a veterinary school, an engineering school and a life sciences center.

"I still marvel at what I found at the University of Missouri-Columbia that I have never encountered anywhere else in the world," Hawthorne says. "The campus literally has everything, including sincere people who are interested in collaborating with me. I realized Missouri would be a place where I could fulfill my life's work, which is to find a new route for attacking cancer in a definitive way."

Hawthorne is studying how compounds of the element boron might be used in cancer diagnosis and therapy including nuclear reactions. Hawthorne is working to create a new cancer therapy based upon the nuclear reaction of boron atoms present in tumor-containing nanoparticles with neutrons from the MU Research Reactor.

Other research that will take place in the 26,000 square foot building will include pharmacology, immunochemistry and medical imaging of all types. The building will be built adjacent to the Dalton Cardiovascular Research Center and across the street from the research reactor. In addition, the building is adjacent

to the proposed site for the Life Science Business Incubator.

"MU's record of the fastest growth in federal research funding among all public institutions in the Association of American Universities over the past 20 years is evidence of our highly competitive role in the national scientific arena," says Chancellor Brady Deaton. "The institute will further enhance our level of participation."

"This is an exciting investment in nanomedicine and an exciting time to be a scientist at Mizzou," says Tim Coleman, vice chancellor for research. "We are combining many of our strengths on this campus to help fight some of the deadliest diseases in recent history. MU is unleashing its ability to bring together so many different scientists from so many different fields. We hope this investment will bring about not only many new scientific collaborations, but also new technology that will bring hope for cancer patients and new discoveries that will improve the quality of life for all Missourians."

The National Science Foundation estimates that the global nanotechnology market will be worth \$1 trillion by 2015. Last year, the U.S. government allocated more than \$1 billion to nanotechnology research.

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MU math center urges common learning goals

GREAT EXPECTATIONS

Report finds confusion in math curricula around the country

After studying mathematics curriculum across the states, the Center for the Study of Mathematics Curriculum (CSMC) at MU issued a report that concludes there is more

confusion than consensus regarding what students should learn and when they should learn it.

Some states expect students to start adding multi-digit numbers as early as kindergarten while in other states this work begins in the third grade. This study shows a lack of national consensus regarding common learning goals in mathematics

at specific grade levels.

"While local control of educational decisions, including curriculum standards, is a hallmark of American education, increased accountability has focused more attention on state curriculum decisions," says Barbara Reys, professor of mathematics education.

According to the report, since the passage of the federal No

Child Left Behind Act in 2001, states and school districts have been placing a greater focus on identification of student learning expectations in math. These expectations — or curriculum standards — explain what students are expected to learn and when.

However, the center's report found that states vary considerably in learning goals for mathematics. For example,

students learn about adding and subtracting fractions anywhere between the first to sixth grades, depending on the state in which they live.

The report offers recommendations to help educators get on the same page. It suggests that at each grade level, from kindergarten to eighth grade, major goals should be created and coordinated to combat superficial treatment

SEE Math on Page 7

Teaching student success

ON TRACK

Training class helps students evaluate their learning skills

Jessica Summers' first year at college was less than stellar. Sure, she had succeeded in high school with little or no studying, but she quickly learned that attending a large state university required stronger discipline.

"I wasn't focused on school," says Summers, assistant professor of educational psychology. "I thought I could get away with skipping classes and not reading the material because I had gotten away with it in high school."

The first grade report, however, opened her eyes. The poor marks made her realize that in order to pursue her educational goals she had to change some behaviors, and change them quickly. But where to turn for help?

The university offered none beyond the typical lists of campus resources, or how to use the library or navigate the system.

"I didn't want to quit school; however, I was very frustrated," she says. "I knew I had to make some changes but could not immediately pinpoint them." Eventually, she figured out that she needed to spend more time studying and studying smarter — not just memorizing the material, but actually comprehending and

learning it.

The revelation, she says, didn't come overnight. "It took a lot of trial and error. Lots of students have this kind of experience," she says. They are bright and have the potential to be successful in college but because they lack direction, they fall through the cracks."

Summers is determined to keep MU's students from doing so. She, along with graduate students in her program, has designed a class to help undergraduate students learn how to be successful in higher education.

Learning and Motivation for College Students is a training class geared toward getting students to evaluate themselves as learners, to navigate the different assignments and academic requirements, and to help them figure out how to be the best learners they can be.

The three-credit hour course, offered for the past three semesters, has some relevance for all undergraduates and is especially important for helping MU continue to improve its retention rate.

Compared to similar courses offered on campus, this one centers more on getting students to investigate their own beliefs and practices, and equipping them to be successful students at MU. The class trains students to use tools like goal setting,

strategic learning, self-regulation and motivation. The graduate instructors teach skills like how to navigate different assignments and academic requirements, prepare for and take exams and set goals.

The twist is that the class doesn't give specific advice on how to be successful, Summers says. "We don't tell them how they can be better students, they have to figure it out for themselves."

To evaluate the effectiveness of the course, Summers uses a published survey called LASSI (Learning and Study Strategies Inventories) developed at the University of Texas-Austin, from where she received a master's degree and a doctorate in educational psychology.

Over the three semesters the course has been offered, students have shown significant increases in coping with anxiety, increasing time management skills, improving concentration, using self-testing strategies to prepare for exams and applying what they learned from this class to their other classes.

Summers believes students could boost their success rate at MU if more instructors incorporated these skills into their own classes by making it content specific as opposed to the general training that students' receive in Learning and Motivation for College Students.



Rob Hill photo

COLLEGE PREP Jessica Summers, an assistant professor of educational psychology, wants to help MU undergraduates avoid the pitfalls that she experienced in her first year of college. She designed a course, Learning and Motivation for College Students, that equips students to be successful in higher education.

The instructors, she says, have to "want to be trained to use this model."

With questions or for more

information about the course, students, faculty and staff may call Summers at 884-9733 or e-mail summersje@missouri.edu.

IN brief

Grant will preserve endangered books

MU Libraries have many old, rare, and unique books that require special care. The William T. Kemper Foundation of Kansas City, Mo., has awarded a grant of \$200,000 to help the libraries provide this special care.

"We are profoundly grateful to the Kemper Foundation for awarding this grant," says Jim Cogswell, libraries director. "With this award, the MU Libraries will, for the first time, be able to provide proper care for our rare books and other artifacts."

The grant will fund staffing and operational support for the initial phase of a new conservation program. Ultimately, the libraries plan to create a comprehensive program that will preserve endangered artifacts and restore deteriorated materials to ensure continued access to these collections by future generations of scholars.

MU Libraries plan to hire a consultant to oversee a needs assessment in the Rare Books and Special Collections department and to identify priority requirements within the department. The grant also will be used to protect and preserve the collections.

Grant funds also will augment the recently-announced Friends of the Libraries Adopt-a-Book Program, which allows donors to support the restoration or conservation of specific books. Funds from the Kemper Foundation grant will match donations made to the Adopt-a-Book program over the next three years. For further information about the Friends' Adopt-A-Book Program, contact Gena Scott at scottgl@missouri.edu or 882-4701.

Award honors math education pioneer

Carolyn Herrington, dean of education, presented Barbara Reys, professor of mathematics education, with the Dr. Lois Knowles Endowed Faculty Fellowship Award. The award recognizes the late Lois Knowles for her contributions to the field of education.

Knowles earned her bachelor's, master's and doctoral degrees from MU. In 1959, she was the first woman to become a tenured full professor in MU's College of Education. In 1968, she became the first woman to receive the "Distinguished Faculty Award" from the MU Alumni Association. To recognize Knowles and her innovation in the field of elementary mathematics education, Robert K. and Barbara McFarland established the Knowles Fellowship.

Reys was chosen to receive this award because of her innovations in mathematics education and leadership among mathematics educators. The endowed fellowship and gift to the MU College of Education is valued at \$100,000.

Reys intends to use this fellowship to initiate an annual lecture series, in which elementary mathematics education experts with national prominence and an interest in Knowles' learning style and curriculum materials will lecture at MU. Reys also plans to use the award to support an MU elementary mathematics doctoral student fellowship.

Mizzou scientists join ranks of AAAS fellows

Three MU researchers have been named fellows of the American Association for the Advancement of Science. The association is the world's largest general scientific society and publisher of the journal *Science*, which announced the complete list of fellows in its Nov. 24 edition.

Election as a fellow is an honor bestowed upon association members for scientifically or socially distinguished efforts to advance science or its applications. This year, 449 association members were elected fellows. New MU fellows are:

- Carol V. Ward, associate professor of pathology and anatomical

sciences, was awarded in the section on anthropology for her distinguished contributions to paleoanthropology, the study of human evolution, tracing anatomic, behavioral and genetic linkages of modern humans to pre-humans from millions of years ago.

- Sashi Satpathy, professor of physics, was awarded in the section on physics for his distinguished contributions to the physics of the electronic structure of solids, especially to the theory of strongly correlated oxides and their interfaces.

- Peter A. Tipton, professor of biochemistry, was awarded in the section on chemistry for his studies of unusual enzymatic mechanisms and the discovery of new enzymes.

TOWN-GOWN from Page 1
 where the edge between the campus and the city is mutually beneficial to each other.”

Jackie Jones, vice chancellor for administrative services, stressed that the study is just a first step in exploring areas in which MU could cooperate with other major players in the downtown area. “It’s a little too soon to tell, but that could involve a whole array of things,” Jones said.

For example, the University is looking at possible sites near the northern edge of campus to build a new performing arts center. Perhaps the center could be located in an area that also would be convenient for community-sponsored events or would draw concert-goers to downtown

dining and entertainment venues. MU might be able to cooperate with the city as it plans future parking garages so that more parking is available downtown when it isn’t needed by faculty, staff and students.

The University might even be able to work with the city on joint landscaping or streetscaping projects to make the area more aesthetically inviting. And there could be opportunities to cooperate on public corridors such as Elm Street and the “Avenue of the Columns”

portion of Eighth Street, or in enhancing open spaces such as Francis Quadrangle and Flat Branch Creek.

“We want to sift through all these ideas that are being generated, and at the end of the day we want to come up with something that is consistent and mutually compatible rather than competitive,” Jones said.

Some of the suggestions have been kicked around informally for years, she said. “But I don’t know of a time when the University, Stephens, the city and

private investors have all been interested at the same time.”

In comments to MU’s Faculty Council earlier this month, Chancellor Brady Deaton described the study as “an opportunity to shape our programs on campus in a positive way.” For instance, the University could look at ways to make its museums and other resources more accessible to the public.

“That is one of the things a great university does with its assets, it tries to ensure that the state and the city have access to

them,” Deaton said. “Despite what we think, the public feels cut off from us in some ways.” He urged the University community to be aware of the downtown study and “be as involved as you would care to be.”

Whatever final decisions are made on the downtown study area, those decisions will be made locally, Sasaki’s Fred Merrill said. “Columbia is a very special place, a very neat place. You ought to be who you are.”

MATH from Page 5

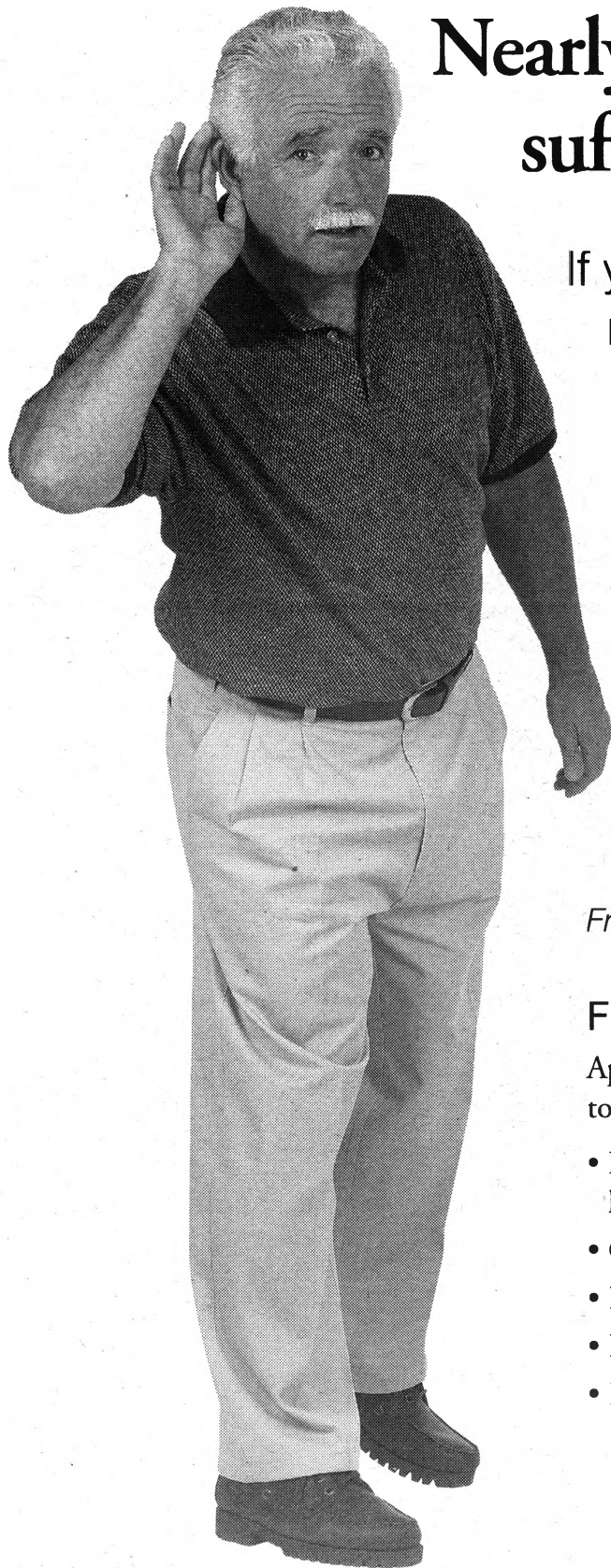
of too many topics, a common criticism of American mathematics curriculum. Limiting the number of learning goals would promote deeper learning and lead to the creation of more focused textbooks, according to the report.

“Having 50 states with 50 different standards increases the likelihood of large textbooks that treat far too many learning expectations,” said Reynolds, director of the CSMC project management team. Unfortunately, this leads to fourth grade textbooks that are more than 800 pages long and contain many more topics than can possibly be discussed in a school year. It also leads to repetition in content from grade to the next.”

Above all, the report suggests that states work together to create consensus about important mathematics learning goals at each grade level. State consortia and collaborative efforts organized by groups such as the Association of State Supervisors of Mathematics and the Council of Chief State School Officers could provide national leadership.

We suggest that states build curriculum standards from a ‘national curriculum’ offered by national groups,” Reynolds said. “A consortium of national groups could collaborate to propose a national core curriculum that focuses on priority goals for each grade. This way, states can still tailor curriculum around local needs while ensuring a much greater level of consistency across the states.”

The Center for the Study of Mathematics Curriculum is supported by a grant from the National Science Foundation. For more information on the report or to see the executive summary of the report, go to curriculumcenter.org.



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MU Libraries Faculty Lecture Series

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"Technology for Successful Aging"

The US population is aging, causing a dramatic shift in the demographics. At the same time, this aging population has increased expectations about maintaining independence in the home of their choice even with potentially debilitating health conditions. In this talk, Dr. Skubic will discuss new technological approaches to helping people manage chronic health conditions and maintain independence as they age. MU researchers in Engineering, Nursing, Social Work, and Physical Therapy are collaborating on a project funded by the National Science Foundation which is addressing the needs of the older adult population through sensor networks. Several of the sensor network systems have been installed in apartments at TigerPlace. Examples will be shown of the sensors, processing challenges, and the information extracted.

This event is free and open to the public.

Tuesday, December 5, 2006

11 a.m., Ellis Library Room 201

(The large second-floor reading room)



MU Research Reactor seeks license renewal

RESEARCH TOOL

The reactor is now 40 years old

The University of Missouri Research Reactor has submitted a 20-year license renewal application to the Nuclear Regulatory Commission (NRC). As it marks its 40-year anniversary, the reactor has become a major attractor of renowned faculty as well as cutting-edge research.

Reactor officials and scientists continue to develop new drugs for the treatment and diagnosis of cancer, new ways to analyze materials and artifacts, and new methods for improving scientists' understanding of matter and energy.

"The University's research reactor is a vital part of our research mission and has helped create cancer drugs that are benefiting all Missourians and the nation," says Jim Coleman, vice chancellor for research. "It is important that we complete this license renewal process and address any questions the public or NRC may raise in order to continue to provide essential products and services to the research community."

Coleman says that students, faculty and staff all benefit from the presence of the reactor on campus. "For example, we are breaking ground on a new International Institute for Nano and Molecular Medicine, which could have great implications in the fight against cancer and other diseases. Without the reactor, that institute and its director, Fred Hawthorne, would not be here."

Research based at the reactor includes such disciplines as anthropology and archaeology, chemistry, engineering (chemical, electrical, mechanical and nuclear), geology, materials science, medical

and life sciences, nanomedicine, nutrition, physics and veterinary medicine. The reactor supports the research of hundreds of faculty and students in dozens of disciplines and provides products and services that directly benefit Missouri citizens, as well as others in universities, industries and agencies nationwide and worldwide.

The NRC allows operating licenses to be renewed for as long as 20 years. The NRC review process examines all aspects of safety for the continued operation of the reactor, and also examines the environmental aspects of continued operation.

"It's very important that we engage the public during this license renewal process," says Ralph Butler, director of the MU Research Reactor. "There will be several opportunities for the public to ask questions about any issue related to MURR, as well as make any comments about the reactor."

The NRC will give members of the public the opportunity to request a hearing on the application. Once the NRC makes the announcement, a notice of opportunity to request a hearing will appear in the Federal Register. All of the information associated with the application is public with the exception of information withheld because of security considerations.

The reactor started operations Oct. 11, 1966, and, at 10 megawatts, is the largest university operated research reactor in the country. It is the United States' sole supplier of the active ingredients in two FDA-approved radiopharmaceuticals that are used to treat hundreds of cancer patients each week. The reactor also provides a routine supply of new radioisotopes used by researchers in developing innovative techniques for the diagnosis and cure of cancer and other diseases.

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