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**April 2, 2009**  
University of Missouri

## A little science, a lot more fish

### FINNY FUTURE

Research improves yields of Nepal's fish farmers

There's an old adage that says, "Give someone a fish and you feed them for a day; teach someone to fish and you feed them for a lifetime." Jack Jones, professor of fisheries and wildlife science, has proved the wisdom behind that proverb with his research work in Nepal.

The lives of that country's subsistence fish farmers dramatically improved with help from Jones, some science and vertical fish-farming cages. For the poor living in central Nepal, it was a struggle to get enough protein. With their meager daily pay of a dollar, they couldn't buy the fish swimming in the country's interior lakes.

To produce more fish, the Nepalese government encouraged cage fishing. Cage culture — like raising chickens in coops but under water — began in 1972 in Nepal's Pokhara Valley at Lakes Phewa, Begnas and Rupa. The plan worked, but yielded modest fish harvests. People remained undernourished.

Today, the Nepal interior economy is thriving because of a small, but significant, change in

production technique. Families not only have food, but a surplus to sell for cash. Tourists flock to the area to sample the catch, bringing in more money. All that was needed was a little science from an MU aquatic ecologist.

In 1985 Jack Jones, now the Dunmire Professor of Water Quality in the College of Agriculture, Food and Natural Resource's Department of Fisheries and Wildlife Sciences, wanted to add an international component to his emerging career. He noticed Nepal's developing aquaculture and thought his expertise could help. With a National Science Foundation grant, he traveled to the country between Tibet and India.

An expert in limnology, the inland version of oceanography, he saw problems. There was a shortage of fingerlings to stock the lakes. Also, the rural families who farmed the fish, one of the lowest of the country's castes, couldn't afford feed pellets. They relied on naturally occurring plankton for the fish to eat—an iffy proposition.

Jones set up shop in a stone building and collected data. Teamed with fellow

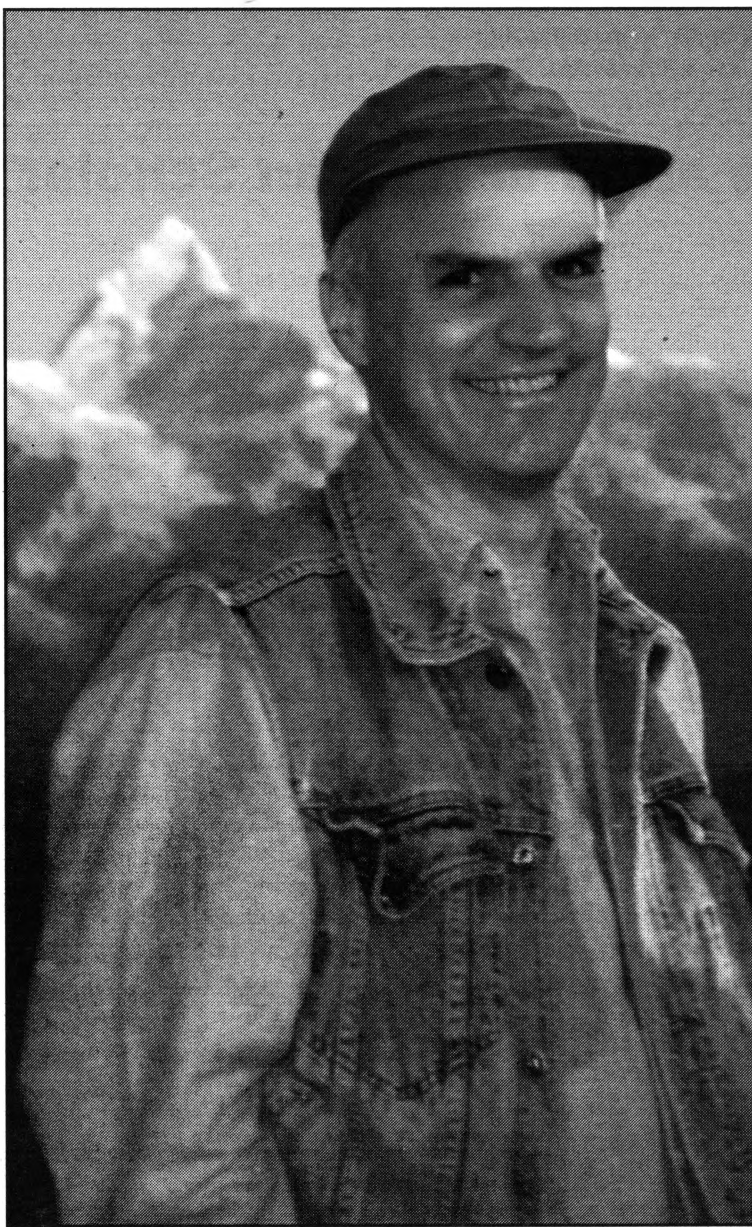


Photo courtesy of Jack Jones  
**AQUATIC EXPERTISE** MU fish and wildlife Professor Jack Jones put science to work and dramatically improved the lives of Nepal's fish farmers.

scientists from the Integrated Fishery and Fish Culture Development Project, part of the United Nations Food and Agriculture Organization, he saw a puzzling fact. Cages on one lake yielded twice the bighead and silver carp.

To find the secret, he investigated those things that promote healthy fish — temperature, food, water oxygenation and sunlight. While the scientific variables were complex, graphs showed the optimum cage location was not just under the surface, as was commonly done, but a few feet deeper where oxygen, light and naturally occurring algae were close to perfect.

Moving cages to this depth was simplicity itself—the farmers merely tipped their 15 x 6-foot cages into a vertical position. The fish easily swam to their best depth. It didn't take long to see results. Jones and colleagues inspected the horizontal control cages and found the expected growth of fish.

The vertical cages, by contrast, teemed with dramatically larger and healthier carp. The initial count showed a doubling of fish growth. "We let out a war whoop," Jones says. "Word got out almost overnight and the other families began switching their cages to the vertical position."

**SEE JONES on Page 6**

## Mizzou teams up with city on historical society's new site

### TOWN AND GOWN

Proposal targets Elm Street surface parking lot

Cancellor Brady Deaton and Columbia City Manager Bill Watkins announced March 30 that MU and the city of Columbia will work together to provide an appropriate site for the future location of the State Historical Society of Missouri that would be beneficial to all three parties, to those they serve and to the community in general. The society currently is located in cramped quarters in Ellis Library. MU has offered to make a site available for construction of

the proposed State Historical Society building. That offer is in accordance with the university's master plan vision to enhance the northern boundary of the campus, and the city's cooperation in that effort that includes consultation services from Boston-based Sasaki Associates. A Sasaki study identified a range of opportunity sites along Elm Street suitable for cultural, residential, commercial and other improvements.

The site is a square block between Sixth and Seventh streets, bounded by Elm Street on the south and Locust Street on the north. It currently

serves as employee/visitor parking for the Heinkel Building, which houses several university administrative functions; MU would retain ownership of the property.

The city would support this arrangement by making a piece of its property available to the university in an adjacent area located on the east side of Fifth Street between Locust and Cherry streets. This area currently serves as a parking lot and would be available to employees displaced from parking around the Heinkel Building.

"We strongly believe that the State Historical Society is

an enormous asset for Columbia and the university," Deaton says. "We have been working for some time with the city to leverage our mutual resources into a new model for town/gown relationships and to identify short-term and long-term opportunities that would benefit our long-standing partnership. Working together to make a site available to the society for a facility that will adequately serve its needs benefits all involved."

Watkins says that the proposal is a workable option for the society's planned expansion. "The society had seriously considered the block immediately

to the west of this alternative site because, once the existing property was acquired, there would be enough space to build the type of facility it visualized," he said. "But this truly generous offer from the university will let the historical society go forward with an adjusted plan. I am excited about this project."

The State Historical Society of Missouri was founded in 1898 by the Missouri Press Association and has been a trustee of the state since 1899. It describes its role as "the preeminent research facility for the study of the Show-Me State's heritage and a leader in programming designed to share that heritage with the public."

**We're in this together**

The College of Veterinary Medicine's annual open house always features some untraditional attractions. This year, for instance, there will be a teddy bear surgery lab for kids, the Purina Incredible Dogs and a horse rescue simulation. Informational lectures will cover topics including rabies, orthopedics, cancer, the human/animal bond, reptile exhibits and teaching hospital tours. The free, public event will be held from 9 a.m. to 2 p.m., Saturday, April 4, at the college campus on the east end of Rollins Road. More information about the open house is

available online at [www.cvm.missouri.edu/openhouse](http://www.cvm.missouri.edu/openhouse).

"This year's open house is aimed not only at informing the public of our college and hospital facilities, but also at creating a learning opportunity for all ages," says Jennifer Sandler, an MU veterinary medicine student and one of the organizers of the event. "The theme, 'One Life, One World, One Health,' refers to the interconnectedness between animals and people. The open house will provide visitors the opportunity to learn more about that connection, not just in medicine, but also everyday life."

**On with the show**

Jessica Huang, an undergraduate playwriting student at MU, has been invited to bring her play, *Mermaids*, to the National Kennedy Center American College Theatre Festival as a finalist for the Ten-Minute Play Award. The festival is a national theater program involving 18,000 students from colleges and universities nationwide.

*Mermaids* took the Ten-Minute Play prize at the regional festival in Lawrence, Kan., earlier this year. Winners from each of the country's eight regions will present their plays as a staged reading in

the Kennedy Center Theatre Lab. The cast will consist of national Irene Ryan Acting Scholarship finalists.

Past MU winners for the Ten-Minute Play category include Mary Barile for *The Hollow* in 2005 and Jeffrey Carrillo for *Party Favors* in 1999. The national festival will be held April 14 through April 19 in Washington, D.C.

**Free aneurysm screenings offered**

With no known symptoms and no known cause, an abdominal aortic aneurysm can be a silent killer. It takes the lives of approximately

15,000 unsuspecting Americans every year.

University Hospital will offer free ultrasound screenings from 8 to 11:30 a.m. Saturday, April 4, in the Surgery Clinic on the first floor of University Hospital. Appointments are required; to make an appointment, call 882-1308.

An ultrasound screening can sharply reduce the risk of dying from a ruptured aneurysm among men ages 65 and older. The aorta is the largest blood vessel in the body and the most common place in the arteries for an aneurysm to form. Abdominal aortic aneurysms occur in the abdominal

**Mizzou claims another Truman Scholar for the Show-Me State**

**CHANGE AGENT**

Award recognizes leadership and academic accomplishments

**M**izzou can claim Truman Scholarship winners among its student body for two years in a row. Last year, MU boasted two winners of the prestigious scholarship. This year, MU junior Rick Puig has been recognized for his strong record of leadership and public service and has been named a Truman Scholar. Another MU nominee, Taylor Rausch, was named a finalist.

The scholarship is highly selective and is given to approximately 65 college juniors across the nation. In addition to a \$30,000 scholarship for graduate study, Puig will receive priority admission and financial aid at top graduate institutions across the country and opportunities for summer internships in Washington, D.C.

"We are excited that Rick Puig has been honored as a

2009 Truman Scholar," says Jim Spain, vice provost for undergraduate studies. "He has established a very distinguished record of accomplishments both in and outside the classroom. We are pleased to congratulate Rick and his family on all of his accomplishments that contributed to this recognition."

"We also want to recognize the great support that Rick has received from our fantastic faculty and staff that have served as Rick's mentors. Rick is another example of the outstanding students that are part of Mizzou's student body."

Puig is majoring in political science and is active in state and national politics. He is president of the Young Democrats of Missouri, south central regional director for the Young Democrats of America and a candidate for vice president of the Young Democrats of America.

He owns Public Forum Zone LLC, a business that produces educational resources for high school debate teams.

He is the youngest member of Governor Jay Nixon's Citizen Transition Advisory Board and was the youngest delegate to the Democratic National Convention's Rules Committee in 2008. After graduation, Puig plans to pursue a master's degree in public policy.

"I am humbled to be a recipient of the Truman Scholarship and profoundly grateful to those who have accompanied me on this journey," Puig says. "The extraordinary young men and women I met through this process have validated my belief in the potential of young people to be agents of change. This scholarship is a living memorial to a president who dedicated his life to the service of our country, and I hope to uphold that legacy."

Established by Congress in 1975 as a federal memorial to the 33rd president, the Truman Scholarship Foundation presents

scholarships to college students who plan to attend graduate school in order to prepare for careers in government or public service. Recipients of the award must be U.S. citizens and have outstanding leadership potential and communication skills. They also must rank in the top quarter of their class and be committed to careers in government or the not-for-profit sector.

"The Truman Scholarship is one of the most competitive and prestigious of the national fellowships," says Vicky Riback Wilson, MU's service-learning and fellowships coordinator. "Chosen from among the most accomplished students throughout the nation, Truman Scholars are expected to be change agents for their communities and the country."

MU has many gifted students whose intelligence and leadership qualities can make big changes in the world around

them, Wilson says, however the rigors of applying for national fellowships can be daunting, and Mizzou students might be intimidated by competing against students from Ivy League and other big-name institutions. The truth is, MU students can hold their own with top students from around the country.

The Fellowships Office, located in 204 Lowry Hall, was established to help those students explore opportunities to fund further study and apply for external, nationally competitive scholarships, grants and similar funding. Wilson, her staff, and faculty and staff volunteers helps students explore their potential.

Wilson invites the university community to attend an upcoming event, called MU Excels, from 4:30 to 5:30 p.m. Wednesday, April 22, in S204 Memorial Union. MU Excels is a celebration of students who have pursued excellence and distinguished themselves by being candidates for nationally competitive awards.

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region and can enlarge.

"We know that screenings can save lives, and this is really an important event," said Rumi Faizer, assistant professor of vascular surgery. "A screening is a simple ultrasound. It's a five-minute test that is not invasive or painful."

Abdominal aortic aneurysms can develop in anyone, but they are most prevalent in men 65 and older. Smoking is widely considered a contributing risk factor to aneurysms. "It's strongly recommended that any man over the age of 65 who has a family history of aneurysms, or a history of smoking, schedule a screening as soon

as possible," Faizer says.

### Calling all faculty

The spring general faculty meeting has been scheduled for 3:30 to 5 p.m. Thursday, April 30, in 22 Tate Hall. Chancellor Brady Deaton will give an update on issues of importance to the university community. Tom Phillips, chair of Faculty Council and professor of biological sciences, will report on Faculty Council initiatives and activities. A full agenda for the meeting will be announced at a later date.

### Safety in numbers

It's only early April, but the University is already in the midst of a systemwide spring cleaning — of Social Security numbers. The project, which takes place on all four campuses, University of Missouri Health Care, Extension and the UM system, will replace all Social Security numbers necessary to UM business with alternate identification numbers and delete all those unnecessary.

"The University takes seriously its responsibility to safeguard the personal information and identity of our faculty, staff, students,

alumni, retirees, friends and donors" says UM President Gary Forsee, who went on to say: "This project will go a long way toward protecting the security and personal identity of our associates."

A Division of Information Technology team has been created to initiate the process of securing Social Security numbers in a centralized database and replacing them with alternate identification numbers. Social Security numbers that are no longer necessary will be deleted to prevent exposure to outside sources.

This will be a huge

project, and it will require the cooperation of everyone across the entire system, project organizers say. Faculty and staff can help by searching their electronic and paper files for Social Security numbers and deleting or shredding those that are no longer necessary. Additional information can be found online at [doit.sharepoint.missouri.edu/sysops/public/SSNProject](http://doit.sharepoint.missouri.edu/sysops/public/SSNProject).

## Record number of MU medical school grads stay put

### MATCH DAY

More than half choose primary care residencies

Envelopes were ripped open and the reactions to what was inside were expressed with laughter, hugs and tears. March 19 was Match Day for 85 fourth-year medical students at MU. After spending at least 20 years in school, the students looked to the envelopes to find out where they would continue their medical education in a variety of clinical specialties. Students gathered in the School of Medicine's gallery with family and friends to celebrate the annual event. Each year, the National Resident Matching Program conducts a residency

match designed to optimize the choices of medical students and program directors. Students rank their choices in order of preference, and program directors rank students. The data is put into a computer, and the best match for both parties is made. In the third week of March, results of the matches are announced.

A record number of MU students — 39 percent — will stay on campus to complete residencies. In all, nearly half this year's class will stay in Missouri to complete residencies. Of these, five students will participate in residency programs in St. Louis and four will go to Kansas City.

"As the state's flagship

university, we've always recognized our obligation to provide outstanding physicians for Missouri," says Rachel Brown, associate dean for student programs. "I think having a record number of students stay here at MU confirms that we have strong graduate medical education programs. Graduates who are staying for their residencies are all very desirable for other programs across the country. This means that in Missouri great care is provided at MU."

Fifty-two percent of the 2009 class chose to enter training in primary care. Primary care fields include internal medicine, family practice and pediatrics.

"I think the family medicine program at MU is amazing, and I've been interested in it the entire time I've been in medical school," said Karli Urban, who is an integrated family medicine resident at MU. "After my residency, I would like to do a geriatric fellowship at MU as well."

MU's Integrated Residency Program also helps students stay and complete their residency locally. In the third year of medical school, students who are interested are placed in residency positions at the university, and that match is confirmed on Match Day. This year, 17 students are taking part in Match Day as integrated residents at MU.

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## Faculty-Alumni awardees named

Winners of the 2009 Faculty-Alumni Awards were announced recently by the Mizzou Alumni Association. The awards will be presented Oct. 2 at a dinner in the Reynolds Alumni Center. W. Dudley McCarter, JD '75, an attorney in Creve Coeur, Mo., will receive the Distinguished Service Award. Jack Jones, John R. Jones, professor of fisheries and wildlife in the School of Natural Resources, will receive the Distinguished Faculty Award.

Winners of the Faculty Award are: Linda F. Bullock, professor of nursing; Michael W. Kramer, professor and chair of communication; Marian A. Minor, MS '79, PhD '89, professor and chair of physical therapy; Anand Prahlad, professor of English; Mark A. Prelas, professor and director of research for MU's Nuclear Science & Engineering Institute; Michael F. Smith, professor of animal science; and Harold A. Williamson, MS '82, vice chancellor for health services with the University of

Missouri Health Systems.

Winners of the Alumni Award are: Clifton A. Baile, PhD '65, of Athens, Ga., an eminent scholar at the University of Georgia; Lyle W. Brizendine, BS BA '74, of Chesterfield, Mo., senior vice president of Bank of America; Jann T. Carl, BJ '82, of Pasadena, Cal., anchor and correspondent for Entertainment Tonight; Tyrone J. Flowers, BA '93, JD '98, of Raytown, Mo., founder and president of Higher M\_Pact, Inc.; David S. Haffner, BS IE '74, of Carthage, Mo., president and CEO of Legett & Platt, Inc.; Leo E. Lewis III, BS Ed '80, of Eden Prairie, Minn., associate athletic director at the University of Minnesota; Sabra R. Meyer, BA '49, MA '79, MFA '82, a sculptor from Columbia, Mo.; Melodie A. Powell, BA '77, JD '81, an attorney in Kansas City, Mo.; Jeffrey E. Smith, BS BA '72, from Columbia, Mo., founder and president of Jeffrey E. Smith Companies; and R. Barnes Whitlock, BS BA '63, a certified public accountant in Springfield, Mo.

## 2009 TeAchnology! Conference

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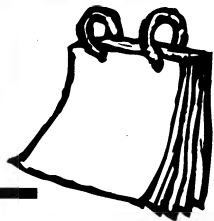
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# calendar



## Concerts & Plays

### Thursday, April 2

**UNIVERSITY CONCERT SERIES:** The Charlie Daniels Band will perform their popular hits at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

**THEATER SERIES:** *The Verge* by Pulitzer Prize-winning playwright Susan Glaspell, which was labeled "mad feminism" when it debuted in 1921, will be presented at 8 p.m. today and April 3 and 4, and at 2 p.m. April 5 in the Corner Playhouse. Tickets are \$7; call 882-PLAY for reservations.

### Saturday, April 4

**UNIVERSITY CONCERT SERIES:** The recent Tony Award-winning Broadway musical, *The Drowsy Chaperone*, will be performed at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

### Sunday, April 5

**JAZZ SERIES:** Grammy Award-winning trumpeter Terence Blanchard will bring his quintet to Murry's, 3107 Green Meadows Way, at 3 and 6:45 p.m. For ticket information, call 449-3001.

### Monday, April 6

**JAZZ SERIES:** The Matt Wilson Quartet will present "Matt Wilson's History of Jazz Drums" from noon-1 p.m. at the Columbia Public Library. Call 449-3001 for ticket information.

### Tuesday, April 7

**JAZZ SERIES:** The Matt Wilson Quartet, whose style has been dubbed "garage jazz," will perform at 7 and 9:15 p.m. in Ragtag Cinema. Call 449-3001 for ticket information.

### Wednesday, April 8

**JAZZ BANDS:** All three MU Big Bands will perform with the Matt Wilson Quartet at 8 p.m. in Memorial Union's Stotler Lounge.

**JAZZ SERIES:** Workshops, clinics and performances with MU Jazz Ensemble from April 8-9. Call 449-3001 for more information.

### Thursday, April 9

**UNIVERSITY CONCERT SERIES:** Humorist and essayist David Sedaris discusses his new book *When You Are Engulfed in Flames* at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

## Exhibits

### MUSEUM OF ART & ARCHAEOLOGY

- "The Fine Art of Living: Luxury Objects From the East and West" is on display through spring 2009.
  - "Driven," a national juried exhibition of young artists with disabilities will run through April 19.
  - "Narrative of Process and Time in the Prints of Jörg Schmeisser," considers Schmeisser's exploration of time and process in individual prints and in the context of series will run through from February 24 through Summer 2009.
- 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.

### ELLIS LIBRARY EXHIBITS:

- "150 Years of On the Origin of Species: The Historical Journey from Specimens to Species to Genes" traces the concept of biological variation from the Renaissance using rare books from the library's collections through March 31 in Ellis Library first-floor colonnade.
- "Classicist, Leader, Mentor: Eva Johnston's Life and Legacy" includes rare photos and original writings of the former MU professor and dean of women who is the namesake of Johnston Hall. Exhibit is on display in the second-floor display case through March 31.
- Paintings by Camdenton, Mo., artist Gary St. Ivany will be on display through May 15 in Ellis Library's Bookmark Café.

## STATE HISTORICAL SOCIETY

- "The St. Louis Gemini Story" details contributions by workers at McDonnell Aircraft Corp. in St. Louis to NASA's moon project.
- "Keith Crown: A Retrospective" celebrates the nationally known watercolor artist's 90th birthday in an exhibit that runs through June 5. Gallery hours are 9 a.m.-4:30 p.m. Tuesday to Friday and 9 a.m.-3:15 p.m. Saturday.

### BINGHAM GALLERY:

- "Un-rooted," an exhibit of photographs by master's candidate Leonor Jurado, is on display through April 3.
  - "Banal: Sculptural Meditations on the Unfamiliar," an exhibit of sculptures, installations and videos by master's candidate Eric de Leon Zamuco, is on display through April 3.
- A closing reception for both exhibits will be held from 5-7 p.m. April 3.
- "Monuments to Water and Air Systems," an exhibit of mixed media assemblages by master's candidate Matt Moyer, will be on display from April 6-16. A reception will be held from 5-7 p.m. April 10.

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

**WOMEN IN THE ARTS:** The annual "Women in the Arts" exhibit, a juried exhibition featuring talented women artists from MU and mid-Missouri, is on display through April 4 at the Craft Studio, N12 Memorial Union.

## Lectures & Seminars

### Thursday, April 2

**INTERNATIONAL AFFAIRS SEMINAR:** John Battaglia and Chad Parmenter from the Stop Human Trafficking Coalition will present "Tears of the Innocent Victims of Slavery in Today's World" at noon in S203 Memorial Union.

**BIOLOGICAL SCIENCES SEMINAR:** Scott Michaels from Indiana University will present "Flowering Time: A Canary in a Coal Mine for the Study of Chromatin Structure" at 3:30 p.m. in 18 Tucker Hall.

**MUSEUM LECTURE:** Brick Johnstone, professor of health psychology, will present "(Dis) Ability in Art Through the

Ages) at 5:30 p.m. in 200 Reynolds Journalism Institute. A reception will follow in the Pickard Hall Cast Gallery.

### Saturday, April 4

**SATURDAY MORNING SCIENCE:** Jerry Taylor, professor of animal science, will present "What Can Modern Genomics Tell Us About Cattle Domestication?" from 10:30-11:30 a.m. in the Life Sciences Center's Monsanto Auditorium.

### Monday, April 6

**COLLEGE SCIENCE FORUM:** This monthly event permits faculty and graduate students in the sciences to discuss issues of teaching. Loretta Jones from the University of Northern Colorado will present "Molecular Visualizations" at noon in 572 Bond Life Sciences Center. Pizza and refreshments will be provided at 11:30 a.m.

### FAMILY STUDIES

**DIVERSITY LECTURE:** Maria Kefalas, associate professor of sociology at Saint Joseph's University in Philadelphia, will present "Why do Poor Women Put Motherhood Before Marriage" at 3:30 p.m. in Ellis Auditorium.

**AAUW Reading Group:** The American Association of University Women will host a discussion of Elva T. Hart's *Barefoot Heart: Stories of a Migrant Childhood* at 6 p.m. at the Bread Basket Café in Crossroads West Shopping Center, 2101 W. Broadway. Membership is not required to participate. Call 815-0040 for more information.

### Wednesday, April 8

**WOMEN'S & GENDER STUDIES LECTURE:** Sam Bullington and Shelda Eggers from the women's and gender studies department, will present "Fat Girls, Trans Guys and Issues of Embodiment in Feminism" from noon-1 p.m. in 325 Strickland Hall.

### Thursday, April 9

**NUTRITION & FITNESS SEMINAR:** Scott Trappe from Ball State University will present "Botanicals, Oxysterols, Estrogens and Hedgehogs: Evidence That They May Help Cure Cancer" at 4 p.m. in Acuff Auditorium, MA217 Medical Sciences Building.

## ARTS & HUMANITIES

**LECTURE:** Kathleen Luby from St. John's University will present "Imagined Bodies in John Cleland and William Hogarth" at 4 p.m. in 123 Tate Hall.

## ISLAMIC SCIENCE

**LECTURE:** George Saliba, professor of Arabic and Islamic science at Columbia University, will present "Islamic Science and the European Renaissance" at 7 p.m. in Waters Hall Auditorium.

### Saturday, April 11

**SATURDAY MORNING SCIENCE:** Steve Alexander, professor of biological sciences, will present "What Do We Know after the 30-Year 'War on Cancer?'" from 10:30-11:30 a.m. in the Life Sciences Center's Monsanto Auditorium.

## Films

### Thursday, April 2

**SPIRITUALITY & HEALTH FILM:** *Swimming* will be shown at 7 p.m. in Memorial Union's Wrench Auditorium.

### Friday, April 3

**MSA/GPC FILM:** *Milk* will be shown at 7 and 9:30 p.m. at Memorial Union's Wrench Auditorium.

### Wednesday, April 8

**MSA/GPC FILM:** *For the Bible Tells Me So* will be shown at 8 p.m. at Memorial Union's Wrench Auditorium.

## Special Events

### Friday, April 10

**COMPARATIVE ORTHOPAEDICS DAY:** This year's event will be held from 8:30 a.m.-4:30 p.m. at the College of Veterinary Medicine's Adams Conference Center. Included among the presentations, keynote speaker Hollis Potter, professor of radiology at the Weill Medical College at Cornell University, will present "Magnetic Resonance Imaging of the Articular Cartilage: Trauma, Degeneration and Repair." For more information or to register online, go to [www.columbmissouri.edu](http://www.columbmissouri.edu).

## 'Stay Strong, Stay Healthy' program keeps Missourians more active

### LIFE CHANGING

Simple exercises maintain a healthy body and mind. It is not often that an 80-year-old and a 24-year-old work out together, but for Karen From, an MU Extension health education specialist, this is an everyday occurrence. Held in churches and libraries across the region, MU Extension's Stay Strong, Stay Healthy program helps northwest Missourians keep active. The strength-training program, designed for men and women, focuses on safe, structured and effective strength training.

"Knowing that this short, 50-minute session is changing their quality of life, changing how they view their life, and making them feel better, makes me feel like I have a major impact on each participant," From says. "For many individuals, paying for a gym membership is not an option or they may not even have a gym in their area. This program allows anyone in the community to work his/her body and mind, and do it a safe, fun environment."

What at first glance looks like friends getting ready for a relaxing gathering at the town church soon turns into a serious

workout as tables and chairs are pushed to the side and participants clutch their hand weights. From leads the class in a set of eight upper- and lower-body strengthening exercises and gives helpful tips on staying healthy in their everyday lives. Strength-training programs have been shown to not only strengthen bones and improve balance, but also to reduce the risk for heart disease, stress, high blood sugar and depression.

"The Stay Strong, Stay Healthy program is a part of my life now. It keeps me active, feeling young and healthy," says Becky Dalbey, a Maryville, Mo., resident. "This is my

fourth time to take the class, and I also go to classes in the surrounding communities. If I ever miss a class, I notice it; I just don't feel the same."

The 10-week class uses little more than hand weights and a chair, as participants do exercises like chair squats, which strengthen the thighs and lower back, and bicep curls, which strengthen the arms. Participants are given a pre- and post-test, detailing their levels of strength, balance and flexibility before and after the program. Because each participant chooses the amount of weight and the number of repetitions, the program can benefit

people at any fitness level. "When I go to these small towns, people often tell me how surprised they are that I would travel just to help them work out," From said. "I just smile and tell them that they are important to me and to the MU Extension family."

The Stay Strong, Stay Healthy program hosts classes throughout the state. The program is based on the results of strength training studies in older adults conducted at Tufts University. For more information, contact a local MU Extension center or see [missourifamilies.org/sssh/](http://missourifamilies.org/sssh/).

# IN *brief*

## Internet makes journalism course available

MU's School of Journalism is expanding one of its required courses to UM-Kansas City. Journalism professors coordinate curriculum and beam the Cross-Cultural Journalism class discussions across the state via Internet video. The goal is to provide students with concepts and tools to help them practice journalism in an increasingly diverse society.

This semester is the first for the experimental class. "In this day and age, we expect an increase of students who start attending college in Kansas City or St. Louis and then transfer here," says Brian Brooks, associate dean of journalism. "And if all goes well, students will transfer to our campus and will be better able to move into the program."

## Linville will direct Extension 4-H programs

Following a national search, Ina Linville has been named program director the MU Extension's 4-H Center for Youth Development. She has served as interim program director since December 2005.

She has 30 years experience in various roles with MU's 4-H program and has a passion for connecting the state's youth with Mizzou's research-based resources. She has helped garner and supervise more than \$6 million in grants and contracts to support youth programs. She earned a doctorate in curriculum and instruction from MU in 2001, and also has a bachelor's in animal husbandry and a master's in animal science, both from Mizzou.

## Grant funds classroom video games

Video games get a bad rap for enticing children and teens to spend hours in front of a glowing screen, but one MU medical researcher has a chance to prove games can be beneficial in the classroom.

Joel Epstein, associate professor of psychiatry and researcher at the Missouri Institute of Mental Health in St. Louis, recently received a four-year \$1 million grant from the National Institute on Drug Abuse to develop a video game focused on what happens in the brain and the body when a person uses drugs.

Epstein received two previous grants from the agency to develop multimedia programs that educate children on the dangers of substance abuse. He sees the latest grant as a natural progression: First there were videos, then interactive CD-ROMs distributed to 19,000 schools across the country, and now a video game.

A former freelance computer programmer, Epstein will work with St. Louis teachers to ensure that the game fits into state curriculum standards and meets educational objectives. To view and download Epstein's previous multimedia programs that teach students about the science of addiction, go to [www.heyneuron.com](http://www.heyneuron.com).

## The Missouri Review holds fund-raiser

The Missouri Review will host its annual fundraising dinner at 6 p.m. Sunday, April 19, at Murry's, 3107 Green Meadows Way. Novelist and short-story writer Ethan Canin will be the guest speaker. Canin, the author of *America America*, *The Palace Thief* and *Carry Me Across the Water*, is a faculty member at the Iowa Writer's Workshop in Iowa City.

Tickets are \$50 per person and include a full dinner with wine and a reading by Canin; \$25 of the ticket price will benefit *The Missouri Review*. Reservations are requested by April 16. They may be made by e-mail to [EarID@missouri.edu](mailto:EarID@missouri.edu) or by telephone at 884-8851. Vegetarian meals are available by request.

## Faculty-staff golf league tees up

MU's Faculty-Staff Golf League is now organizing for its 45<sup>th</sup> season, and play will start April 28. Each year, nearly 160 players are organized into two conferences, one of which plays on Tuesdays and the other on Thursdays at MU's A.L. Gustin Golf Course. Tee times for the weekly nine-hole match begin at 4 p.m. The league's summer season runs through early July, and an additional fall season runs from late August to late October.

All full-time employees, retirees, graduate assistants and employees of agencies based at MU may participate. New members may join an existing team on a space-available basis or several new players may organize a new team. All play is handicapped. For more information or to join, call George Rickerson, league president, at 882-3503 or e-mail [rickerson@umsystem.edu](mailto:rickerson@umsystem.edu); or Rex Dillow, secretary-treasurer, at 445-7183 or [rex.dillow@mchsi.com](mailto:rex.dillow@mchsi.com).

## MU experts analyze energy issues

### 'HONEST BROKER'

National stimulus package targets sustainable energy

**T**he federal stimulus package sets aside \$39 billion to the Department of Energy and \$20 billion for tax incentives for clean energy. How this money is spent can have significant impact on the future of energy.

The University of Missouri Center for Sustainable Energy will put university resources to work to coordinate and develop sustainable, affordable and renewable solutions to help meet the nation's increasing energy needs and analyze energy policy. Workforce development, commercialization of research and federal funding of research will contribute to economic growth in Missouri.

"There is nothing as complex as energy, and 80 percent of energy consumption is a personal choice — driving, eating out, showering, etc.," says Gary Stacey, director of the Center for Sustainable Energy and MSMC Endowed Professor

of Soybean Biotechnology in the Bond Life Sciences Center. "The center provides an 'honest-broker' analysis of the issues that underlie the myriad array of complex energy issues."

The Center for Sustainable Energy, which is a partnership among the MU College of Engineering and the College of Agriculture, Food and Natural Resources. The center, which includes more than 70 MU faculty members, focuses on five areas: policy, service, research, education and training, and commercialization. It will encourage collaboration and propose partnerships with Missouri companies.

"For years, MU faculty members have been working on energy-related projects, and now, the center can coordinate these efforts and multiply the effectiveness of the research," says Stacey, who also is the associate director of the National Center for Soybean Biotechnology. "We hope to increase the visibility of energy research at the university and attract federal funding and commercialization."

Some projects of the Center for Sustainable Energy include:

- Partnering with Missouri community colleges to enhance energy-related training programs;
- Collaborating with Fort Leonard Wood to develop solar-geothermal crop storage to use in countries, such as Afghanistan;
- Utilizing the MU Power Plant to explore alternative energy sources, such as wood chips and corn husks;
- Partnering with Crowder College in Neosho, Mo., in the area of alternative energy;
- Working with the Center for Applied Research and Environmental Systems to create effective weatherization methods.

Stacey and Robert Reed, research associate professor of engineering, will discuss the MU Center for Sustainable Energy at the 2009 Missouri Energy Summit Campus to be held at MU April 22 and 23. More information about the summit is available online at: [www.umsystem.edu/summits/energy2009/program/schedule/](http://www.umsystem.edu/summits/energy2009/program/schedule/).

# Islamic Science and the European Renaissance

Waters Auditorium

April 9, 2009

7:00pm

## George Saliba

Professor of Arabic and Islamic Science

Department of Middle East and Asian Languages and Cultures

Columbia University

reception to follow the lecture

Sponsored by the Grinslaw Lectures Fund (College of Arts & Science Dean's Office), Department of History, Department of Mathematics, Department of Romance Languages & Literatures, Islamic Center of Central Missouri (ICCM), Muslim Speakers Bureau of Columbia, Muslim Student Organization (MSO), Rabbaniyah Youth Program, University Lectures Committee

**JONES from Page 1**

The excitement was justified. Nepal is among the world's poorest and least developed countries with almost one-third of its population living in poverty. Primitive agriculture is the mainstay of the economy, providing a livelihood for three-fourths of the population and accounting for almost 40 percent of gross national product. Its population of less than 30 million, according to the CIA Fact Book, has a median age of less than 21 years. It's young because most of the population dies before 60.

Yet, it is rich in interior lakes where some 186 fish species thrive, which is why the government invested in cage fishing. Approximately 400,000 hectares of water are available for aquaculture development. "By driving fish production up you drive down price," Jones says.

It didn't take long for the additional fish to start a chain reaction, according to the *Asian Fisheries Science* journal. Jobs that supported fishing, such as net mending, began to emerge. Bankers happily financed new ventures because no investment for feed is needed, and families use homemade cages that last for years. Plentiful fresh fish

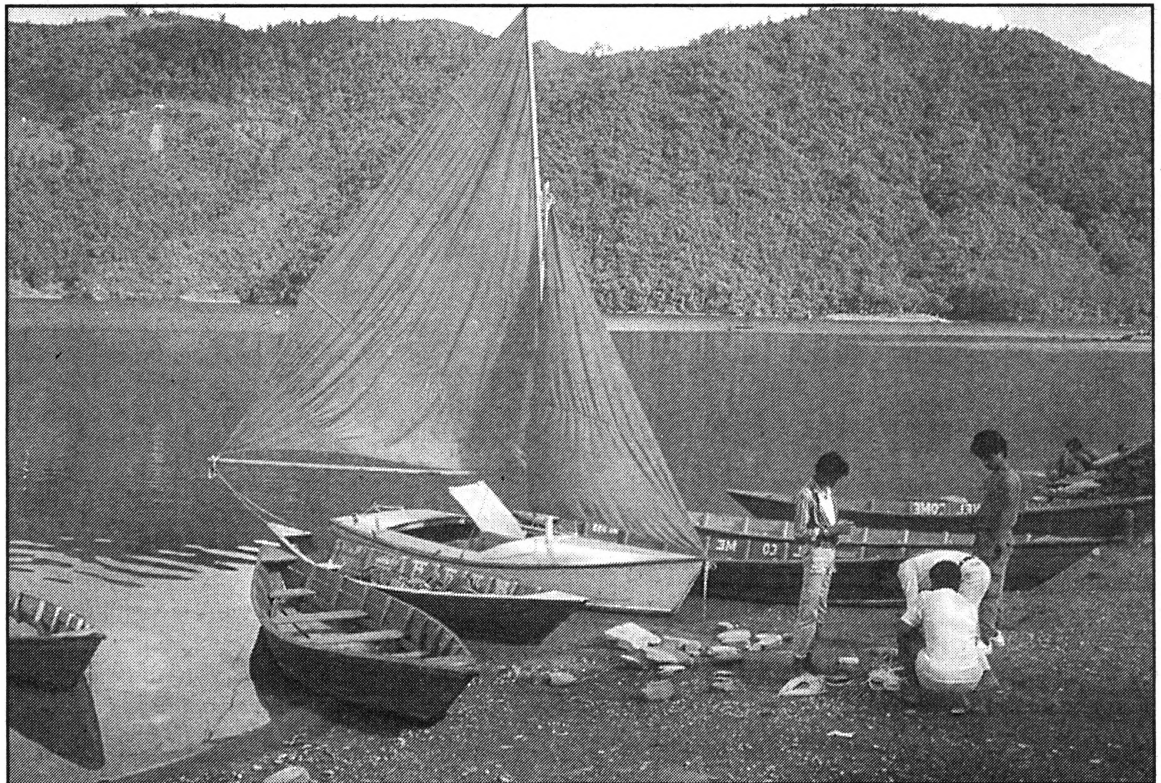
attracted tourists who further boosted the local economy.

The Nepal government stepped in with fish marketing, training and technical help, including a new fish hatchery to meet the demand for fingerlings. Today, the fisheries journal reports, one family can operate a five-cage system that adds 9,000 to 14,000 Nepali rupees (\$6,300 to \$10,000) to their annual income — an enormous boost in a country where the average annual household income is still under \$300 per year.

The Nepal Directorate of Fisheries Development reported a national production of 33,270 metric tons of fish in 2001. Cage fishing is beginning to dominate the country's aquaculture as traditional fishing declines.

The fish harvest has also changed a largely landless people to a home-owning one with houses with toilets, gas stoves and TVs. Some can buy a motorbike. "Now, fish farmers own farmland and are sending their sons and daughters to college," Jones says. "The caste now boasts its first college graduate. Before, the kids were sent overseas to oilfields for hard work and to send money home."

In a recent visit, Jones noted



Jack Jones photo

**NETTING SOME GAINS** With scientific advice from Jack Jones, professor of fisheries and wildlife science, poor villagers in Nepal changed their fish-farming methods and significantly increased their catch. That brought down the price and made protein-rich fish more available.

what the added tourism has brought. An open air market with decrepit lean-to shanties was supplemented by a Nepali version of a strip mall with wine bar, grocery store, ATM and underground parking. His Nepali acquaintances, once

undernourished, now carry a little extra weight, he says.

The *Himalayan Journal of Sciences* noted that a community known as the "Pode," living near Phewa Lake, led a nomadic life along rivers and lakes, carrying cast nets to feed their families. In the 1960s when the fish catch declined due to overfishing, the Pode bought one cage. Today, they're sending their children to school.

In 2000 in Nepal, according to government information, about 142,000 males and 223,000 females are involved in fisheries—up from the 1980s when about 80,000 people

depended on fish. Cheap start-up costs mean even the poorest Nepalese can cage fish. As fewer than half of the population is literate—a situation worse among the lower castes — any job skill taught through on-the-job training is particularly prized.

For Jones, his two-decade project has come full circle. He recently was honored as a Senior Fulbright Fellow at the Nepal Agriculture and Forestry University in Rampur. There, he'll collaborate with the next generation of scientists looking at ways to make cage aquaculture even more efficient.

## MU Remembers

*Please join the campus community  
for a time to remember  
the lives and dreams of  
students who have departed from us.*

### *In Memoriam*

**Austin Baumbach, Agriculture, Food &  
Natural Resources, Jefferson City, MO**

**Ella Brown-Vallar, Education, Columbia, MO**

**Evan Dalgaard, Arts & Science, Kirkwood, MO**

**Philip Kozak, Arts & Science, Park Ridge, IL**

**Hande Odaman, Arts & Science, Istanbul**

**Friday, April 10, 2009**

**2 p.m.**

**Stotler Lounge, Memorial Union**

## Mizzou Earth Hour

### LIGHTS OUT

Two events highlight energy conservation

**A**t 8:30 p.m. March 28, the University of Missouri joined millions of people around the world to demonstrate support for energy conservation by turning off lights across campus for one hour. Sponsored by the World Wildlife Fund, this event served as a reminder that everyone and every action can play a role in saving the planet.

Because the nationwide event occurred during MU's spring break, the campus sponsored a separate event, "Mizzou Earth Hour," at 8 p.m., April 1.

"Our faculty and staff are leaders in energy conservation, and we are pleased to be able to participate in this global event," MU Chancellor Brady Deaton said. "From student groups such as 'Sustain Mizzou' and 'Greeks Going Green' to the staff at our Campus Facilities - Energy Management power plant who

work with faculty to research the best and most efficient means of generating power for our campus, the University of Missouri is recognized as a model for exemplary sustainability practices. It is important that we use our resources wisely, while at the same time educate the next generation about new technologies and the importance of sustainability to our global culture."

During both events, lights were extinguished for a one-hour period at the following locations: Jesse Hall dome, Francis Quadrangle columns, Eight Street Circle, Lee Hills Hall dome, Memorial Union Tower, Stankowski Field high mast lighting, MU Health Care architectural lighting, campus signs at the four corners of campus, athletic fields and the student recreation complex. On April 1, students in residence halls also were asked to turn off all appropriate lighting, computers and TVs and refrain from doing laundry and other tasks that use electricity.

# MU economist finds teacher salary policies can promote inefficiency

**PERFORMANCE PAY**  
Research finds unintended consequences in pay policies

President Barack Obama recently announced a new education reform, calling for a merit-pay system for teachers in hopes of improving student performance. As the nation's public schools spend \$187 billion in salaries, MU researcher Michael Podgursky has found a link between teacher pay and student achievement.

"The evidence certainly suggests when you offer appropriate pay incentives to teachers, you're likely to get better results," says Podgursky, professor of economics. "In addition, the single-salary pay schedule is particularly inefficient because the factors it rewards, teacher experience and level of education, are not strong predictors of teacher productivity. Without consideration of the logic or unintended consequences of current teacher compensation policies, school systems will continue to face financial and performance

efficiency challenges."

Podgursky has conducted many studies on the effect of teacher pay. He has found that single-salary pay schedules can cause a shortage of teachers in specific subject areas like science and math, an inequitable distribution of novice teachers and can make it harder to recruit and retain effective teachers.

"Because single-salary pay schedules do not adapt to teaching field demands, the teacher market adjusts in terms

of quality," Podgursky says. "The pay schedule also allows teachers with more seniority to exercise the option to move to better working conditions, migrating away from high-poverty schools. Novice teachers frequently fill the subsequent openings in these high-poverty schools. Economic theory also suggests that if more effective teachers are rewarded on the basis of performance, incumbent teachers would have an incentive to work more effectively to

raise their performance."

Traditionally, teacher pay is based on a salary schedule based on years of experience and education level. Nationwide, there are roughly 3.1 million public school teachers. Podgursky says the current salary system increases expenditures without directly impacting student achievement. He advocates school districts to emulate private sector employers, who understand that strategic pay policies are a very important lever

in raising firm performance.

Podgursky has published numerous articles and reports on education policy and teacher quality, and co-authored a book, *Teacher Pay and Teacher Quality*. The primary focus of his recent work has been on personnel policy in schools and the effects on teacher quality. Podgursky is the lead investigator on several research contracts on teacher compensation funded by the U.S. Department of Education and private foundations.

## classifieds

### INCOME TAX PREPARATION

Retired CPA with large University of Missouri clientele will assist you with your income taxes. Evening appointments also available. Call 573-442-7856.

### BLACK DIRT AND EXCAVATING

Sifted top soil delivered and spread. Grading, drainage and concrete work. Contact Rusty Smarr, Smarr Construction, 573-881-1318. References available.

The classified advertising section is open to faculty and staff members and retirees.

Home phone number required.

No campus numbers will be printed.

Rates: 30-word maximum \$9

Deadline: Noon Thursday of week before publication.

No refunds for cancelled ads.

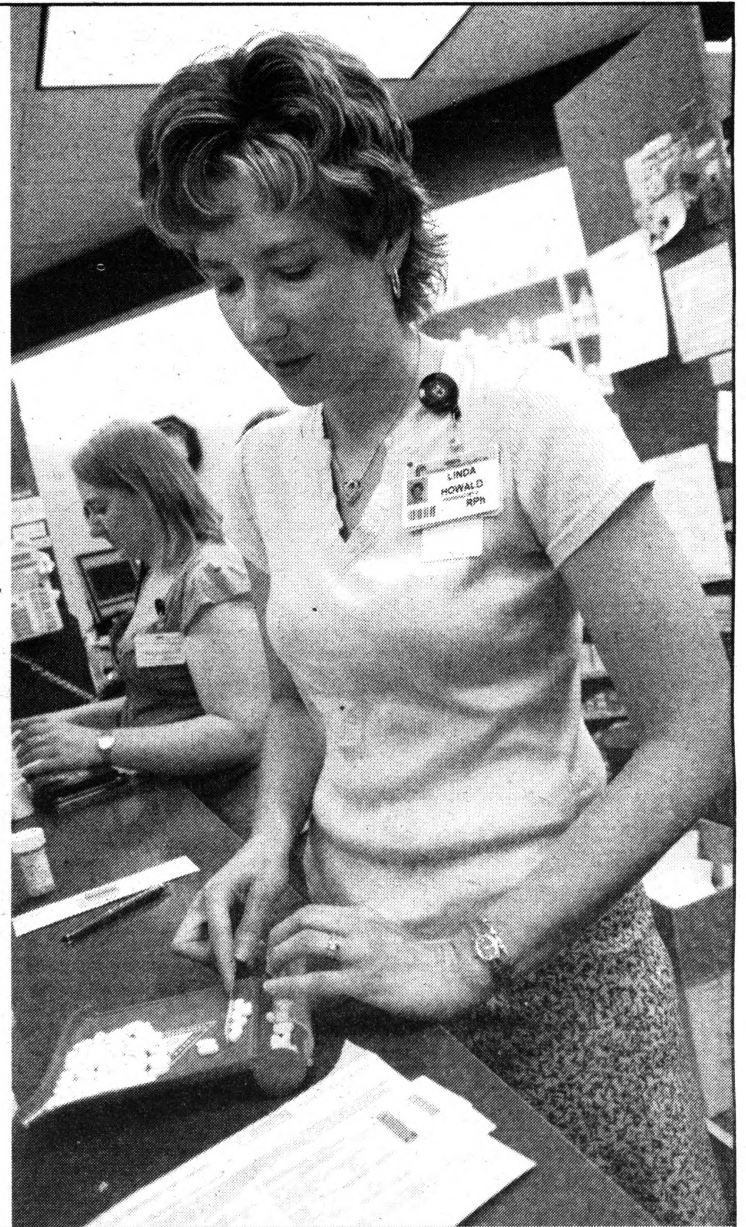
Mizzou Weekly Classifieds: Make check payable to University of Missouri and send to Classifieds, Mizzou Weekly, 407 Reynolds Alumni Center, Columbia, Mo. 65211

## Attention University of Missouri faculty, staff and retirees:

*Save money and time with 90-day prescriptions*

Save money and time by filling your 90-day prescriptions at any one of the seven University pharmacies in Columbia. Drop off your prescriptions or call any University pharmacy and your prescription will be ready the next business day for the same price as mail order.

Information about Express Scripts national preferred formulary is available at [www.express-scripts.com](http://www.express-scripts.com). The formulary and other information, such as co-payments, are located in your Faculty and Staff benefits plan booklet. If you do not have a copy of the booklet, please contact Human Resources at (573) 882-2146.



### To fill a prescription or for details about MU's 90-day prescription plan, please call or stop by a University pharmacy:

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One Hospital Drive  
(573) 882-8600

University Physicians Medical Building Pharmacy  
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3217 S. Providence Road  
(573) 882-3151

Fairview Pharmacy  
101 S. Fairview Road  
(573) 884-1100

Regional Medical Pharmacy (drive-through)  
404 Keene St.  
(573) 499-6022

Smiley Lane Pharmacy (drive-through)  
2325 Smiley Lane  
(573) 817-3555

Ellis Fischel Cancer Center Pharmacy  
115 Business Loop 70, West  
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 **Health Care**  
University of Missouri Health System

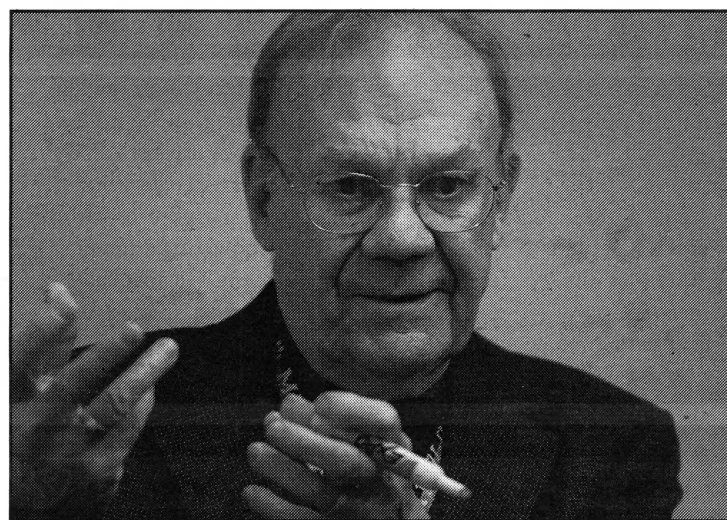
## Priestley Medal honors MU's 'giant' of inorganic chemistry

### A LIFE'S WORK

Research shows promise for cancer, arthritis treatments

**M**. Frederick Hawthorne, director of the International Institute of Nano and Molecular Medicine at MU and longtime editor-in-chief of *Inorganic Chemistry*, received the 2009 Priestley Medal at the American Chemical Society's (ACS) 237th National Meeting March 24 in Salt Lake City.

The annual award, which consists of a gold medallion, recognizes Hawthorne's work in areas as varied as medical imaging, drug delivery, neutron-based radiation treatments for cancers and rheumatoid arthritis, catalysis, and nanotechnology. The award is the highest honor bestowed by the society. "I'm tickled to death to receive this recognition," Hawthorne told *Chemical and Engineering News*, the society's weekly newsmagazine. "I am very lucky to have been at the right place at the right time to



Rob Hill photo

**GOOD CHEMISTRY** Fred Hawthorne, director of the International Institute of Nano and Molecular Medicine at MU, received the Priestley Medal from the American Chemical Society last week in Salt Lake City. The prestigious award recognizes Hawthorne's lifelong career of pioneering work in boron chemistry and other scientific breakthroughs.

begin work on clarifying the chemistry of boron, one of the most versatile elements."

"The Priestley is a wonderful award to recognize one of the giants of inorganic chemistry," says Richard S. Eisenberg of the University of Rochester, who succeeded Hawthorne

as editor-in-chief of *Inorganic Chemistry* in 2001. It's rare for a chemist to create a field of research and excel in it the way Hawthorne has done with boron, Eisenberg says. On top of that, he did it while spending 32 years guiding *Inorganic Chemistry* to become a premier international

journal, Eisenberg adds.

Hawthorne, a native of Kansas, completed his undergraduate education in 1949 at Pomona College, in Claremont, Calif., and earned a doctorate in physical organic chemistry in 1953 from the University of California, Los Angeles. He began to synthesize and study polyhedral borane clusters such as B<sub>12</sub>H<sub>12</sub><sup>2-</sup> in 1956 while working at Rohm and Haas.

Back then, no one knew much about boron chemistry, Hawthorne says. He assumed that it should be possible to do anything with boron that could already be done with its next-door neighbor, carbon. And the assumption paid off.

The accomplishment Hawthorne is most excited about is the creation of nontoxic carborane-containing liposomes that selectively target cancer cells for destruction by boron neutron capture therapy. "It's been a long road," Hawthorne admits, but he says he thinks he is finally on the verge of seeing his

life's work come to full fruition. Hawthorne says he expects to start animal trials using boron neutron capture therapy in October and human trials within the next five years. He believes carboranes will eventually be ubiquitous in pharmaceuticals.

The Priestley Medal is an annual award named for Joseph Priestley, who reported the discovery of oxygen in 1774. Since 1923, the American Chemical Society has recognized groundbreaking chemists with the award. The first Priestley Medal went to Ira Remsen, the chemist credited with bringing laboratory research to American universities.

With more than 154,000 members, the American Chemical Society is the world's largest scientific society and a global leader in providing access to chemistry-related research through its multiple databases, peer-reviewed journals and scientific conferences. Its main offices are in Washington, D.C., and Columbus, Ohio.

### University of Missouri Health Care's Lunch and Learn Series presents

## Your Aching Back

Is back pain slowing you down? Back pain is one of the most common, nonlife-threatening, painful conditions affecting four in five Americans at some point in their lives. Theodore Choma, MD, an orthopaedic surgeon with University Physicians, will share information regarding:

- Common causes of back pain
- Available treatment options
- Taking care of your back


**Monday, April 6  
Noon to 1 p.m.**

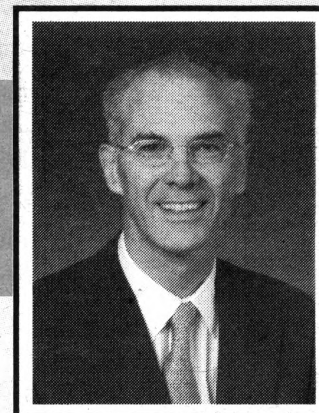
**Christopher S. Bond Life Sciences Center, Room 572**

Please bring your own lunch. R.S.V.P. to [derbovens@health.missouri.edu](mailto:derbovens@health.missouri.edu) or **882-3779**.

Don't miss this informative Lunch and Learn presentation and your chance to register to win a gift basket.

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The College of Agriculture, Food and Natural Resources presents:

**"The International Experience:  
Studying and Living Abroad"**

**Carl Hausmann  
President and CEO  
Bunge North America**

April 10, 2009 9:30-10:30 a.m.  
572 Life Sciences Center

Light refreshments will be served.

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