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Early daylight-saving time could require patches for software programs.

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The Gold Standard

Common food additive is promising for cancer diagnosis and treatment.

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University of Missouri-Columbia

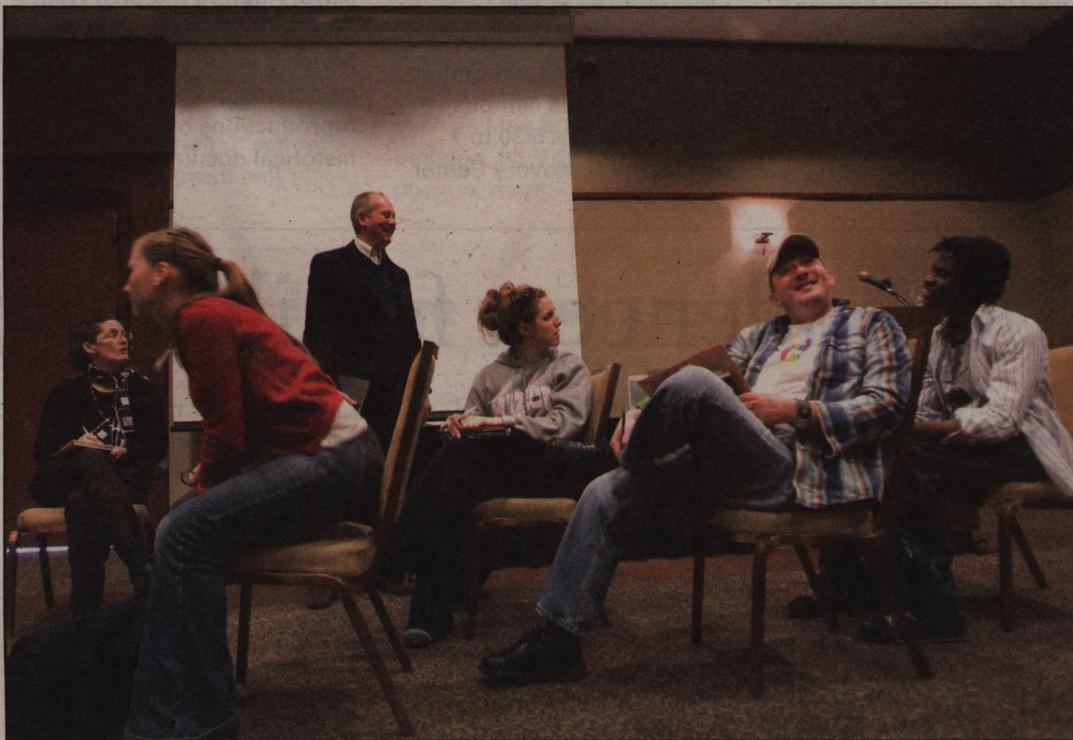
Classroom drama

INTERACTIVE THEATER

Program provides a safe space to discuss diversity in classroom settings

A rabble-rousing preacher in Speakers Circle got this English composition class all riled up. In the few minutes before the class begins, a handful of students discuss the fiery words they just heard from "Brother Jed" as he preached hellfire and damnation to the throngs passing by.

Two students debate whether Jed should be allowed to preach his divisive brand of the gospel on campus. "Jed said Muslims and Jews are going to hell," one student says. "He has the same freedom of speech as anyone else," says another. Yet another student, a Muslim himself, talks about how offensive the preacher's words are. "This is not a church, not a temple, not a mosque," says Tom the TA as he struggles to steer the class back to his lesson plan and a discussion



Nicholas Benner photo

TEACHABLE MOMENT Volunteer actors, from right, Wale Aliyu, Kevin Babbitt, Heidi Arni, Phil Groeschel, Mallory Thomas and Sally Foster present a skit for MU's Interactive Theatre Troupe performance at the Feb. 23 Teaching Renewal Conference. The performance demonstrates ways that issues of diversity can arise in a classroom setting.

of dangling modifiers.

The classroom drama was a scripted performance by MU's Interactive Theatre Troupe, but the heated words could erupt in any class. That's the point behind the performance: Interactive theater aims to give faculty, staff and students the opportunity to explore

multicultural dimensions of the classroom experience, suggest alternative approaches and get feedback from others.

This particular performance was one of many sessions at MU's recent Teaching Renewal Conference, but the troupe has given dozens of performances to audiences

on this and other campuses since it was founded in 2003. The troupe is led by Suzanne Burgoyne and Clyde Ruffin, professors of theater, and is an integral part of Mizzou's Difficult Dialogues program.

After the skit, actors stay in their roles and audience members are invited to ask

questions. One participant asked Tom the TA if he had any training to deal with classroom disruptions like this. "Hell no," he responded. "I never received any training about how to deal with situations of religious and ideological conflict.

Another audience member asked the actor playing "Kemal" the Muslim student how he felt about the negative perceptions he experienced. "People put us in a box and it's really hard to ignore that all the time," he replied.

Another participant asked "Dr. Block," Tom the TA's fictitious faculty supervisor, what she thought of his handling of the situation. Tom wanted to be too friendly with his students, she said disdainfully. "He lowered the boundary between the classroom and the world outside of class."

After the question-and-answer period, Burgoyne offered participants a chance to try their hand at different approaches to resolving the classroom conflict. "It doesn't have to be successful," she said. The exercise "is a safe space to try something" even if it doesn't work.

Universities under the gun to document learning outcomes

ASSESSING SUCCESS

MU conference explores teaching and learning

The national spotlight is focused increasingly on the success that colleges and universities achieve in teaching and learning, a higher education policy expert told participants at last week's Teaching Renewal Conference at MU.

"Higher education has become too important to remain the exclusive prerogative of its institutions," said Robert Dickeson, who was a senior policy consultant for the national Commission on the Future of Higher Education — known as the Spellings Commission.

Dickeson was a keynote

speaker at the annual conference, held Feb. 22 and 23 at the Reynolds Alumni Center. He earned a doctorate in political science at MU, has been a faculty member at four universities and is a former president of the University of Northern Colorado.

Topic of heated debate

Dickeson traced the evolution of Mizzou's teaching conference, now in its 17th year. When it began, the primary purpose was instructional improvement, and faculty colleagues met to share ideas about teaching and promising classroom practices, he said. "What was once the sole province of an individual instructor in her or his

classroom, laboratory or studio has become the topic of heated state and national debate."

Now, higher education institutions face mounting pressures from many sources to document the learning they provide. "There are calls for comparing institutions by how well their students learn," Dickeson said. "These calls are not merely idle suggestions, but carry the weight of public sanction and possible loss of accreditation and/or funding. The academy often is charged with resisting change and stalling efforts for needed reform."

In his welcoming comments, Chancellor Brady Deaton described the conference as "a nexus of creativity and learning"

and said it captured many of the important themes that face higher education today.

"It reflects a global commitment to the continued development of higher education at a time when it has really been put under the microscope, and questions are being raised about its value. That comes, ironically, at a time when higher education has done so much and continues to fuel the knowledge base upon which our entire progress as a society is based," Deaton said.

"Those who would argue about the efficiency and accountability of higher education need to be reminded that their criticism is coming at a time when we are probably the most accountable we

have ever been and certainly the most efficient we have ever been in delivering the product that fuels the most complex industrial organization, worldwide system of job creation and knowledge development that ever has occurred in the history of humankind."

Deaton said that many higher education critics too often use ineffective measurements that can lead to uninformed judgments. "I think we can be very proud of what we have accomplished," he said. "To me, it seems such an easy process of explaining how we're doing so well, but we seem to be failing in getting the message across." He urged

SEE Policy on Page 7

Public forums will discuss presidential search process

The University of Missouri Board of Curators will conduct six public forums around the state during March to discuss its search for the institution's next president. The curators are seeking a successor to President Elson Floyd, who is leaving this spring to assume the presidency of Washington State University. Forums will be held in Portageville, St. Louis, Kansas City, Columbia, Rolla and Springfield. Curators will attend forums in their home

regions to visit with citizens about the search process and solicit public comments.

"The Board of Curators has begun a nationwide search to identify and recruit the best possible person to become the University of Missouri's next president," says Don Walsworth of Marceline, chair of the board. "We seek an exemplary leader of national stature to guide the University during an era marked by great challenges and unlimited opportunities for higher education."

The forums will be held:
 • March 6 from 1 to 2:30 p.m. at the MU Delta Research

Center at Portageville
 • March 12 from 3-4:30 p.m. in Room 126 of the J.C. Penney Building on the UM-St. Louis campus
 • March 16 from 4 to 5 p.m. and 5:30 to 6:30 p.m. in Room 106 of the University Center on the UM-Kansas City campus
 • March 19 from 4 to 5:30 p.m. in Room 208C of the Reynolds Alumni Center on the MU campus
 • March 20 from 1:30 to 3 p.m. in the Carver-Turner Room at the Havener Center on the UM-Rolla campus
 • March 20 from 5:30 to 7 p.m. at the Discovery Center

Auditorium, 438 E. Saint Louis St. in Springfield.

Journey to emancipation

MU Libraries is one of 63 libraries across the country to be selected to host "Forever Free: Abraham Lincoln's Journey to Emancipation," a traveling panel exhibit that re-examines President Lincoln's efforts to abolish slavery during the Civil War. The exhibit, which opens March 8 in Ellis Library's colonnade, consists of reproductions of rare historical documents from

the Huntington Library and the Gilder Lehrman Institute. An opening reception will be held at 2 p.m. March 14 in 201 Ellis Library. Before the exhibit ends on April 20, a number of other events are scheduled, including a film, musical performances, a panel discussion, lectures about women of color in antebellum Missouri, Civil War medicine and Lincoln's local legacy. All the events are free and open to the public, and a complete schedule is at mulibraries.missouri.edu/foreverfree.

Chancellor Brady Deaton invites the campus community to celebrate

Is alcohol dependence a family tradition?

A 20-YEAR STUDY

Does family background set the stage for alcohol dependency?

A long-term MU research project is producing valuable information about alcoholism and individuals who are affected by a family history of the disease. Psychology researchers, now several years into a multi-year study, have discovered that individuals from alcoholic homes maintain personality traits that could eventually lead to alcohol dependency

Ken Sher, professor of clinical psychology, and psychology graduate student Jenny Larkins have compared personality differences of individuals from alcoholic homes to those from non-alcoholic environments. They are monitoring the neuroticism and psychoticism levels of individuals from both groups.

The neuroticism scale measures characteristics such as anxiety, depression, guilt, shyness, moodiness and emotionality. The psychoticism scale measures traits related to aggression, egocentrism,

impulsivity and anti-social behavior. When the study began in 1987, individuals with family histories of alcoholism scored higher than their counterparts.

Over time and as participants in both groups aged, the researchers found an overall decrease in neuroticism and psychoticism levels. However, Sher says those from alcoholic homes maintained relatively higher levels of deviant behavioral and emotional traits during adult maturation.

"There are tremendous changes in personality from adolescence to adulthood," he

says. "We know that people become less neurotic as they get older. One of the things we looked at in this study was the degree of change and whether the gap closes or people maintain those differences. What we find are decreases in neuroticism and psychoticism as people age, but the levels are still higher for people with family histories of alcoholism. Everybody becomes more emotionally stable, but the differences are still maintained."

Sher says another goal was to track personality changes after participants affected by

alcoholism moved out of such environments.

When the study began, the median age of participants was 18. Initially, 489 signed up for the study; 389 currently participate. The participants were selected during their freshman year at MU. They completed alcoholism screening tests which measured paternal and maternal drinking habits.

Following interviews, they were categorized as either having a family history of alcoholism or not. Participants were assessed during each of the first four years. Follow-ups were conducted during years seven and 11 — with the most recent providing information for Sher's current research finding.

The study, "Family History of Alcoholism and the Stability of Personality in Young Adulthood," has been published in *Psychology of Addictive Behaviors*.



Parking & Transportation Services
 Turner Avenue Garage
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 882-4568

Please email umcparking@missouri.edu to tell us about your favorite pothole in any University lot. We're making a list in preparation for summer repairs.

parking.missouri.edu

Project Submission Deadline
Thursday, March 15, 2007



Undergraduate Research and Creative Achievements Forum
 Monday, April 30
 Bond Life Sciences Center
 1:00pm-4:00pm

the Forum

Attention MU Faculty:
Don't forget about the 2007 Undergraduate Research and Creative Achievements Forum. Offer support to your undergraduates in submitting their research or scholarly project on time!

Check out the NEW Office of Undergraduate Research website and project submission page at:
undergradresearch.missouri.edu

MizzouWeekly

Volume 28 No. 22

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Advertising Savannah Waszczuk, Scott Reeter
Photographers Nicholas Benner, Rob Hill
Writer/designer Sue Richardson

the exhibit's arrival and encourages interested faculty to invite their students to the March 14 reception. "We are very proud that MU has been selected as one of the national sites for this exhibition that gives us an opportunity to better understand how President Lincoln decided to issue the Emancipation Proclamation while at the same time holding the fragile Union together," Deaton says.

"The exhibit gives us a glimpse of the values, principles and ideals that guided one of our greatest presidents," says Jim Cogswell, director

of MU Libraries.

Curbing school violence

Violent acts have affected schools across the nation. A public forum next Saturday at MU will address how schools and communities can create a safe environment without restricting learning and infringing on students' rights.

The College of Education and two student-led education honor societies, Pi Lambda Theta and Kappa Delta Pi, will host an Education Week public forum to inform the community and share ideas on the prevention of school violence. The event will

include panel presentations and round-table discussions among community members and prominent Missourians educators.

The forum is open to the public and will be held from 10 a.m. to 1 p.m. March 10 in Conservation Auditorium at the Natural Resources Building. At 10 a.m. there will be a panel presentation followed by a question-and-answer session. From 11:30 a.m. to 1 p.m. there will be several round-table discussions on topics such as how to prevent bullying, how to promote positive mental health in

schools, what parents can do to keep kids safe, and the concerns of new teachers about school violence. For more information, call 882-2862 or e-mail EDForum@missouri.edu.

It all adds up

What fifth-grader wants to do math on a Saturday morning? Lots of them will, if they plan to attend MU's 12th annual Math Fair for Kids from 9 a.m. to noon March 10 in the Memorial Union's Stotler Lounge. The fair was developed and is conducted by a group of

Mizzou education students to provide a motivating morning of math for kids and a non-traditional look at mathematics for parents.

The fair consists of a series of booths with different recreational math themes. The booth themes include number and logic games, puzzles, geometry, probability and statistics. The math fair is free, and refreshments and prizes will be provided. Pre-registration is requested. Parents may drop their children off or join in the fun. More information is online at um2to.missouri.edu/mathfair.

Daylight springs forward three weeks early this year

TIMELY CHANGES

Early daylight-saving time could require patches for software programs

Beware of glitches in your gadgets when daylight-saving time springs forward in a couple of weeks.

Thanks to Congress' 2005 Energy Policy Act, the start and end dates of daylight-saving time change.



Beginning in 2007, clocks will be set ahead one hour on the second Sunday in March (March 11, 2007) instead of the traditional first Sunday in April. Clocks will be set back one hour on the first Sunday in November (Nov. 4, 2007) rather than the customary

last Sunday in October.

On the surface, the extra month of daylight may seem like no big deal, but considering the change affects anything that has to do with dates, times and scheduling, most computer programs set to automatically handle daylight-saving time (DST) hours could be confused and cause you to be an hour off for every appointment you have scheduled between March 11 and April 1.

To help avoid the hassle, "Update your computers," says Terry Robb, spokesperson for the Division of Information Technology (formerly IAT Services).

The change requires patches for many software products, some of which will need to be installed manually. In most cases, though, users won't have to do anything as much of the software in use

is updated automatically.

Students, faculty and staff can bypass the manual fixes by setting University or personally owned computers to automatically update so the appropriate DST patch can be applied.

Preparing hundreds of servers for the switch was a big effort for MU's IT staff, Robb says. "Last week, we completed our efforts to update operating systems and adjust calendar events for all users of Microsoft Outlook, Entourage or other e-mail clients that rely on the University's e-mail servers to store their calendar events."

Calendar users who have single-occurring meetings scheduled during the three-week period in March and the one week in October should check the appointments to ensure they are accurate, he says. If the dates are

incorrect, Robb advises users to check their computer for the required updates for DST.

Meeting organizers should manually adjust the incorrect times on appointments and send the updated calendar event to all attendees to make sure everyone has the correct time. As an extra precaution, include the event title and meeting time in the subject field of the e-mail request.

Robb says that reoccurring meetings extending beyond the four-week DST change period — combined March and November — are automatically correct.

DST's early arrival not only will affect computers. Other gadgets that store the time and automatically adjust for daylight-saving time are in jeopardy, such as DVD players; VCRs; digital watches, cameras and clocks; routers; PDAs

and other mobile devices; and photo copiers and fax machines. All of these will either need patches or manual fixes to compensate for the change.

"If you synchronize your smartphone or PDA with Outlook, fix any DST-related time error in your standard desktop or laptop Outlook client and resynchronize," Robb says.

Cellular devices should receive updates for the correct time directly from the cellular towers. If a device fails to update, check with the service provider to determine how to do it manually.

Major IT vendors like Microsoft and Apple have Web pages that outline what fixes are necessary for their products and how to apply them. See <http://support.microsoft.com/gp/cp.dst> or <http://docs.info.apple.com/article.html?artnum=305056>

With questions, call MU's help desk at 882-5000.

Scholarships help adults

A San Francisco-based foundation has awarded MU Extension a grant that may lead to a large scholarship program for adult students returning to finish their education. A \$50,000 first-year award from the Bernard Osher Foundation will establish the Osher Re-entry Scholarship program, which will provide \$2,000 scholarships for 25 adult learners ages 25 to 50 who are pursuing their first bachelor's degree. Second-year and third-year awards of \$50,000 will continue those scholarships.

If the MU program demonstrates success after the third year, Osher will fund a \$1 million endowment to continue the scholarships indefinitely, says Deborah Robison,

associate vice provost for extension. MU is one of 23 universities nationwide to receive the Osher grants in the past year.

"Adults often face different challenges in completing college than traditional-aged students do, having to balance job, family and other commitments not only in terms of time, but financially as well," Robison says. "We hope the Osher funds will support the first of many scholarships we can provide in the future to this growing segment of students."

Application criteria and forms for the scholarship program are available at extension.missouri.edu/education/scholarships or call MU Direct at 882-3598.

MU Libraries Faculty Lecture Series

DR. CAROL ANDERSON, PROFESSOR OF HISTORY



"International Conscience, the Cold War, and Apartheid: The NAACP's Alliance with the Reverend Michael Scott for South West Africa's Liberation, 1946-1951"

Are you aware of the NAACP's role in fighting for the liberation of peoples of color in Africa and Asia? Drawing from her forthcoming book, *Bourgeois Radicals: The NAACP and the Struggle for Colonial Liberation, 1941-1960*, Professor Anderson explores a transnational, sovereignty-piercing alliance between the NAACP and an outcast Anglican minister, and how both risked everything in a landmark UN battle against apartheid and South Africa. Associate Professor Carol Anderson is fascinated by policy. She is particularly intrigued with the ways that domestic and international policies intersect through the issues of race, justice, and equality. To date, her research has garnered substantial support from the American Council of Learned Societies, the Ford Foundation, the Gilder Lehrman Institute for the Study of American History, the Eisenhower Foundation, and the Council for Institutional Cooperation.

This event is free and open to the public.

Thursday, March 1, 3 p.m.
Ellis Library, 1st Floor Colonnade



MU Libraries

Your Connection to Knowledge

calendar

Concerts & Plays

Friday, March 2

VINTAGE MUSIC RECITAL:

Malcolm Bilson, professor of music and internationally known expert on vintage instruments, will present a dedication recital on MU's new replica of an 1802 fortepiano at 8 p.m. in Whitmore Recital Hall. Suggested donation: \$5.

Saturday, March 3

JAZZ CONCERT: The Avant-Garde Jazz Quintet will perform at 8 p.m. in the Whitmore Recital Hall. Suggested donation: \$5.

Sunday, March 4

UNIVERSITY CONCERT SERIES: Comedienne Lily Tomlin will perform at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781 or order online at www.concertseries.org.

Monday, March 5

FACULTY RECITAL: Eva Szekely will perform on violin and Daniel Schene will perform on piano at 8 p.m. in

Whitmore Recital Hall. Suggested donation: \$5.

Tuesday, March 6

FACULTY/GUEST RECITAL: The Miyamoto-Vogel-Burrows Trio will perform at 8 p.m. in the Whitmore Recital Hall. Suggested donation: \$5.

Wednesday, March 7

VISITING PLAYWRIGHT EVENT: Lynn Nottage will present a concert reading of her play *Fabulation* at 8 p.m. in the Rhynsburger Theatre.

FACULTY RECITAL: Angelo Manzo will perform on tuba at 8 p.m. in Whitmore Recital Hall. Suggested donation: \$5.

Thursday, March 8

MUSEUM FILM SERIES: The Museum of Art and Archeology will present *All That Heaven Allows*, starring Rock Hudson, at 7:00 p.m. in 106 Pickard Hall.

JAZZ SERIES: Trombonist Conrad Herwig and trumpeter Brian Lynch team up with five of the best New York-based Latin jazz players to present "The Latin Side of Miles & 'Trane: An 80th Birthday

Celebration" at 7 p.m. at the Blue Note, 17 N. Ninth St. **VISITING PLAYWRIGHT EVENT:** Playwright Lynn Nottage will read from and discuss her work at 8 p.m. in the Rhynsburger Theatre followed by a reception at the Conley House.

Friday, March 9

ODYSSEY MUSIC SERIES: The Schumann Piano Sonatas will be performed at 8 p.m. at the First Baptist Church, 1112 East Broadway.

STUDENT ENSEMBLES: The Jazz Combos will perform at 8 p.m. at the Cherry Street Artisan, 111 S. Ninth St.

Conferences

Friday, March 2

SOCIAL WORK FORUM: The MU School of Social Work will present the 2007 annual Social Work Forum from 1-5 p.m. at the Peach Tree Conference Center. Presenters include Lauren Neal, coordinator of patient and family supportive services for MU's Ellis Fischel Cancer Center and Governor Matt Blunt's appointee to the State Committee for Social Workers. For registration information, go to swforum.ssw.missouri.edu.

Saturday, March 3

LEADERSHIP CONFERENCE: "Leave Your Mark," the 8th annual Women's Leadership Conference will be held from 9:30 a.m.-5 p.m. in Memorial Union. Participants explore personal insights and leadership development through a variety of forums led by students, faculty, staff and community members. The cost is \$15 for students and \$18 for non-students. For more information, call Molly Kea at 882-8291.

Courses & Workshops

Thursday, March 1

COMPUTER TRAINING:

- "Access 2003 Customization, Indexing & Replication" will be offered at 1 p.m. in 4D11 East Ellis Library.
- "Dreamweaver 8.3: Assets, Rollovers & Multimedia" will be offered at 1 p.m. in N3 Memorial Union.
- "Excel 2003 Charts and Graphics" 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.

Friday, March 2

COMPUTER TRAINING: "Photoshop CS2: Selections and Layers" 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.

Sunday, March 4

MUSEUM CHILDREN'S WORKSHOP: The Museum of Art and Archaeology will offer "Aslan's Return (Chronicles of Narnia)," an art experience designed for children in grades three to 12, at 1:30 p.m. in Pickard Hall. The event is free; pre-registration is required by calling 882-9498.

Monday, March 5

COMPUTER TRAINING:

- "Acrobat 7.0 Professional" will be offered at 1 p.m. in N3 Memorial Union.
- "2124: Programming with C Sharp" will be offered at 10 a.m. in 215 Telecom Building.

Registration is required, call 882-2000 or register online at training.missouri.edu.

Tuesday, March 6

COMPUTER TRAINING:

- "Flash 8.2: Layers and Animation" will be offered at 1 p.m. in 4D11 East Ellis Library.
- "Access 2003 Fields and Tables" will be offered at 1 p.m. in N3 Memorial Union.
- "Excel 2003 Function Fun" will be offered at 8:30 a.m. in N3 Memorial Union.
- "Creating PowerPoint 2003 Presentations" 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, March 7

COMPUTER TRAINING:

- "Creating Web Pages" will be offered at 1 p.m. in N3 Memorial Union.
- "InDesign CS2: Document Setup & Typography" 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.

MUSEUM CHILDREN'S WORKSHOP: The Museum of Art and Archeology will offer "Lion Kings" as part of the School's Out! Art's In! series, from 2 p.m. to 3:30 p.m. in Pickard Hall. The event is free and suitable for grades one to 12. Pre-registration is required by calling 882-9498.

Thursday, March 8

COMPUTER TRAINING:

- "Excel 2003 for Starters" will be offered at 1 p.m. in 4D11 East Ellis Library.
- "Photoshop CS2: Colors, Masks & Saving for the Web" will be offered at 1 p.m. in N3 Memorial Union.
- "Click to Print" 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.

Exhibits

MUSEUM OF ART & ARCHAEOLOGY:

- "South Asian Sculpture" featuring selections of Buddhist and Hindu sculpture from the museum's permanent collection will be on display through May 20.
- "The Forgotten Art of Engraving" is on display through July. It explores the history of engraving technique and displays prints by such masters as Albrecht Durer, Hendrick Goltzius and William Blake.

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

BINGHAM GALLERY:

Undergraduates from academic programs throughout campus showcase their creative work in the "2007 Undergraduate Juried Art Excellence Exhibit" on display through March 8. The gallery, located in the Fine Arts Building, is open 8 a.m.-5 p.m. weekdays.

LIBRARIES EXHIBIT:

"Forever Free: Abraham Lincoln's Journey to Emancipation," a traveling panel exhibit that features reproductions of photographs and historical documents from the Huntington Library and the Gilder Lehrman Institute of American History, will be on display in the first-floor colonnade of Ellis Library from March 8 to April 20. An opening reception will be held at 2 p.m. March 14 in 201 Ellis Library.

STATE HISTORICAL SOCIETY:

- "The Stories They Tell: Understanding Missouri History Through Maps," an exhibit of more than 30 maps organized by Walter

Chancellor Brady J. Deaton
and
Dr. Anne Deaton

cordially invite
members of the University
and Columbia area communities
to a farewell reception
honoring

President Elson S. Floyd
and Mrs. Carmento Floyd

Wednesday, March 7, 2007
3 to 5 p.m.
Stotler Lounge in Memorial Union

*Parking is available in the University Avenue,
Hitt Street and Turner Avenue garages*



University of Missouri-Columbia

Schroeder, associate professor emeritus of geography, which explores Missouri topics that range from the Civil War to the 1874 locust infestation, is on display through June 30 in the main gallery.

- "Light & Life in Missouri: Photos by Notley Hawkins" is on display through May 12 in the north-south corridor gallery.

Lectures & Seminars

Thursday, March 1

LIBRARIES FACULTY

LECTURE: Carol Anderson, associate professor of history, will present "International Conscience, the Cold War and Apartheid: The NAACP's Alliance with the Rev. Michael Scott for Southwest Africa's Liberation, 1946-51" at 3 p.m. in the first-floor colonnade of Ellis Library.

VINTAGE MUSIC

LECTURE: Malcolm Bilson, professor of music at Cornell University and an internationally known expert on vintage instruments, will present "The Fortepiano and Classical Style" at 3 p.m. in Whitmore Recital Hall. Suggested donation: \$5.

ANCIENT STUDIES

LECTURE: Judith Evans Grubbs, professor of classics at Washington University, will present "(Not) Bringing up Baby: Infant Abandonment and Infanticide in Roman Imperial Law" at 6 p.m. in 106 Pickard Hall. A reception will be held at 5:30 p.m.

MOLECULAR

MICROBIOLOGY LECTURE: Francesc Marti from the department of microbiology and immunology at the University of Michigan Medical School will present, "Role of the T-Cell Specific Adapter (TSA) Protein in T-Cell signaling" at 1:15 p.m. in Acuff Auditorium, MA217 Medical Sciences Building.

Saturday, March 3

SATURDAY MORNING

SCIENCE: Bruce McClure, professor of biochemistry, will present "From Fins to Fingers: The Origins of Tetrapods" from 10:30-11:30 a.m. in the Life Sciences Center's Monsanto Auditorium.

Monday, March 5

MOLECULAR

MICROBIOLOGY LECTURE: Mark Daniels from the Transplantation Immunology and Nephrology Lab at the University Hospital Basel, will present "Standing on the Border of Thymic Selection" at 10 a.m. in Acuff Auditorium, MA217 Medical Sciences Building.

GEOGRAPHY LECTURE:

Sam Bullington, assistant professor of geography and women's and gender studies, will present "Opposing the New Apartheid: South Africa's Treatment Action Campaign and the Struggle for AIDS Treatment Access" at 4 p.m. in Stewart 106.

MOLECULAR

MICROBIOLOGY LECTURE: Emma Teixeiros Pernas, from the Transplantation Immunology and Nephrology Lab at the

University Hospital Basel, will present "Role of the TCRbeta Transmembrane Domain in T-Cell Function" at 2 p.m. in Acuff Auditorium, MA217 Medical Sciences Building.

Tuesday, March 6

BIOLOGICAL SCIENCES

SEMINAR: Ken Catania from Vanderbilt University will present "General Principles From Specialized Species: Lessons From Star-Nosed Moles and Water Shrews" at 3:30 p.m. in the Life Sciences Center's Monsanto Auditorium.

Wednesday, March 7

PEACE CORPS SEMINAR:

The International Center will present a brown-bag lunch lecture on post-Soviet Russia at noon in S203 Memorial Union. Presenters are former Peace Corps volunteers.

MUSEUM LECTURE:

Exhibit curator Benton Kidd will lead a tour of "Final Farewell: The Culture of Death and the Afterlife," which explores cross-cultural themes of the afterlife and their impact on art, from 12:15-1 p.m. at the Museum of Art and Archaeology in Pickard Hall.

Thursday, March 8

JOURNALISM LECTURE:

Harry Rosenfeld, who was city editor of the Washington Post during the Watergate years, will present "Woodward and Bernstein's Editor on Watergate Coverage and Its Lessons" at 4 p.m. in Fisher

Auditorium in Gannett Hall.

EDUCATION LECTURE:

Frank Lester, professor of mathematics education and cognitive science at Indiana University, will present the annual Richard Andrews Lecture, "Teaching Mathematics through Problem Solving; What Does It Mean for Elementary Teacher Preparation?" at 5 p.m. in the Life Science Center's Monsanto Auditorium.

Friday, March 9

MARKETING LECTURE:

Durairaj (Mahesh) Maheswaran, professor of marketing and international business at New York University, will present "Nation Equity" at 11 a.m. in 205 Cornell Hall.

Meetings

Thursday, March 8

STAFF COUNCIL: The Staff Advisory Council will meet at 1:15 p.m. in S204 Memorial Union.

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

Special Events

Tuesday, March 6

MIZZOU CAREER FAIR:

More than 150 employers will attend the HireMizzouGrads.com Career Fair from 10 a.m.-3 p.m. in the Hearnes Center

Fieldhouse. More information is available online at career.missouri.edu.

Saturday, March 10

MATH FAIR: An annual math fair for fifth grade students will include recreational math puzzles, games and activities to engage and challenge students from 8:30-11:30 a.m. in Memorial Union's Stotler Lounge. More information is available online at um2to.missouri.edu/mathfair/index.html.

SCHOOL VIOLENCE

FORUM: The College of Education and several of the college's student honor societies will sponsor an open forum on school violence from 10 a.m.-1 p.m. in the Natural Resources Building's Conservation Hall. Following a panel presentation and open discussion on the issue, attendees may join several roundtable discussions.

CHINA NIGHT: The Friendship Association of Chinese Students and Scholars will showcase traditional Chinese dance and music at 7 p.m. in Jesse Auditorium. The event is free, but tickets are required and are available at the Asian Affairs Center, the International Center and at local Chinese restaurants. More information is available online at www.chinanight.org.

Tai chi on TV

The benefits of an unconventional wellness program at MU are being broadcast across the country by Trinity Healthforce Learning, a continuing healthcare education providers. Tai Chi Fundamentals, taught by Sandy Matsuda, a clinical assistant professor of occupational therapy, helps older adults along the path to wellness.

The simplified version of the ancient martial art is considered a good way to keep older people active and is gentle enough for people recovering from an injury. The exercise consists of slow exercises or movements which emphasize controlled breathing and broadening range of motion. Regular tai chi practice enhances immune function, reduces stress and anxiety, reduces joint pain and lowers blood pressure.

Trinity Healthforce Learning will carry the new programs on its Health and Sciences Television Network (HSTN) and the Long Term Care Network (LTCN) through 2011. The seven installments also are available on DVD.

You're invited to the grand opening of
University Physicians-Woodrail Family Medicine.

Wednesday, March 7

4 to 6 p.m.

1000 W. Nifong Blvd.

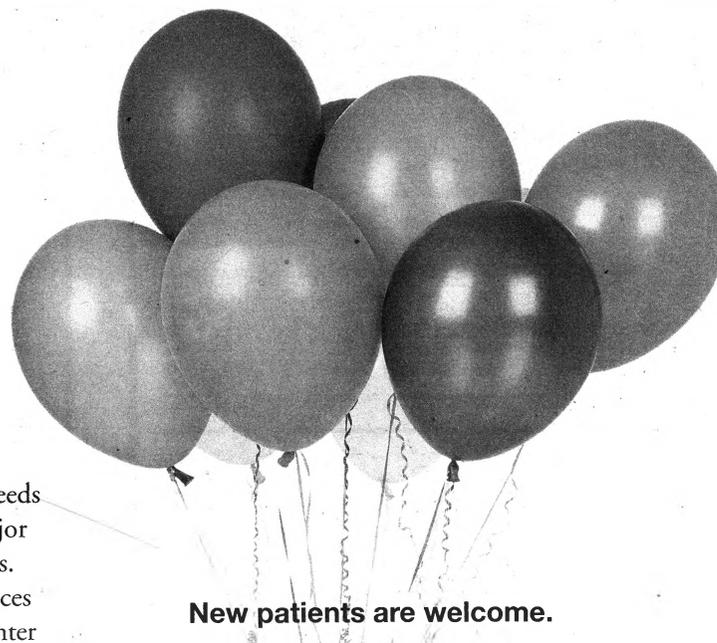
Building 2, Suite 140

Columbia

Meet our doctors, tour the clinic
and enjoy refreshments.

University Physicians-Woodrail Family Medicine physicians specialize in the primary health-care needs of families. These physicians are trained in all major medical areas — from caring for infants to seniors. They also provide obstetrics and gynecology services including delivering babies at the Family Birth Center at Columbia Regional Hospital.

University Physicians-Woodrail Family Medicine is designed with your family in mind. The clinic is located near the intersection of Forum and Nifong boulevards. With day and evening hours, our physicians are available at a time that's convenient for you. To schedule an appointment or for more information, please call 882-7411.



New patients are welcome.

Office hours

8 a.m. to 8 p.m., Monday and Tuesday

8 a.m. to 5 p.m., Wednesday through Friday



University
Physicians
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www.muhealth.org

Common food additive is promising for cancer diagnosis and treatment

NANOMEDICINE

Gum arabic is key to producing gold nanoparticles

The future of cancer detection and treatment may be in gold nanoparticles – tiny pieces of gold so small they cannot be seen by the naked eye. The potential of gold nanoparticles has been hindered by the difficulty of making them in a stable, nontoxic form that can be injected into a patient. New research at MU has found that a plant extract can be used to overcome this problem, creating a new type of gold nanoparticle that is stable and nontoxic and can be administered orally or injected.

Because gold nanoparticles have a high surface reactivity and biocompatible properties, they can be used for *in vivo* (inside the body) molecular imaging and therapeutic applications, including cancer detection and therapy. The promise of nanomedicine comes from the high surface area and size relationships of nanoparticles to cells, making it

possible to target individual cells for diagnostic imaging or therapy.

Gold nanoparticles could function as *in vivo* sensors, photoactive agents for optical imaging, drug carriers, contrast enhancers in computer tomography and X-ray absorbers in cancer therapy. Despite their promise, however, scientists have been plagued with problems making nontoxic gold nanoparticle constructs. Kattesh Katti, professor of radiology and physics and director of the University of Missouri Cancer Nanotechnology Platform, worked with other MU scientists in the fields of physics, radiology, chemistry and veterinary medicine. The team tested plant extracts for their ability as nontoxic vehicles to stabilize and deliver nanoparticles for *in vivo* nanomedicinal applications.

The researchers became interested in gum arabic, a substance taken from species of the acacia tree, because it is already used to stabilize everyday foods such as yogurt,

Big Macs and soda. Gum arabic has unique structural features, including a highly branched polysaccharide structure consisting of a complex mixture of potassium, calcium and magnesium salts derived from arabic acid. The scientists found that gum arabic could be used to absorb and assimilate metals and create a “coating” that makes gold nanoparticles stable and nontoxic.

Katti and Raghuraman Kannan, assistant professor of radiology, have been collaborating on the development of biocompatible gold and silver nanoparticles for medical applications.

“We found that gum arabic can effectively ‘lock’ gold nanoparticles to produce nontoxic, nanoparticulate constructs that can be used for potential applications in nanomedicine,” Katti says. “We have developed a new class of hybrid gold nanoparticles that are stable and can be administered either orally or through intravenous injection within the biological system.”

This finding could lead to the development of readily injectable gold nanoparticles that are nontoxic and stable. Mansoor Amiji, professor of pharmaceutical sciences in the Bouve College of Health Sciences’ School of Pharmacy and co-director of the Nanomedicine Education

and Research Consortium at Northeastern University in Boston, said this represents a major scientific discovery that will initiate a new generation of biocompatible gold nanoparticles.

“The excellent *in vivo* stability profiles of such gold nanoconstructs will open up new pathways for the intratumoral delivery of gold nanoparticles in diagnostic imaging and therapeutic applications for cancer,” Amiji says.

The new generation of trimeric amino acids peptides discovered by Katti in 1999 (referred to by Amiji as ‘Katti Peptides’) have provided a solid chemical platform and have become sources of a number of other discoveries. Their applications in the development of drugs for Wilscons’ disease; their utility for the generation of a wide spectrum of metallic nanoparticles, including gold and silver; and as amphiphilic building blocks in a variety of drug designs were demonstrated by Katti, in collaboration with Kannan and MU’s Stan Casteel. A paper describing the team’s recent findings, “Gum Arabic as a Phytochemical Construct for the Stabilization of Gold Nanoparticles: In Vivo Pharmacokinetics and X-ray Contrast-Imaging Studies,” was recently published in the February edition of the journal *Small*.

Treating the wounded

When U.S. soldiers are wounded in Iraq and Afghanistan, improvised explosive devices (IEDs) are often to blame and the makeshift weapons account frequently cause difficult-to-treat infections. The Army has turned to a MU researcher to study the problem and develop medical solutions.

“The bacteria we’re seeing is quite different than what we’re used to dealing with,” says Jason Calhoun, professor and chair of orthopaedic surgery. “Many are resistant to common types of antibiotics.

Calhoun has a \$1.6 million grant from the Army Institute of Surgical Research to study infections that are multi-drug resistant and build a database on veterans with infections and study how those infections could be better treated. In Iraq and Afghanistan, about half of those with extremity injuries develop significant infections that require additional treatment and surgery, which often leads to amputation, Calhoun says.

During a four-year period, lab tests will be conducted at MU’s medical school to simulate blast wounds and examine four types of infections that have become increasingly common among those injured in action.

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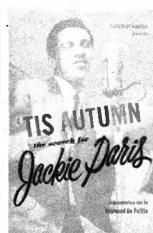
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The Life Sciences & Society Program at MU
invites you to attend the

4th Annual Life Sciences & Society Symposium Biofuels: Initiatives, Challenges & Opportunities

Life Science Center, Monsanto Auditorium
March 14th and 15th

In recent years biofuels have been heralded for their promise of improved air quality, enhanced energy security and sustainability, as well as for a more equitable agricultural policy. Yet questions remain on the ability of biofuels to deliver on their social promise. This symposium brings internationally recognized experts to the MU Campus to examine the science behind biofuels and associated social, cultural and economic implications on the state and global communities.

The LSSP Lecture on March 14th at 7pm
Professor Bruce Dale "Biofuels: Thinking Clearly about the Issues"

&

March 15th, starting at 8am with opening remarks from Senator Christopher S. Bond
Session 1: Biofuels, today & the future
Session 2: The environmental & social role of biofuels
Session 3: Socioeconomic impacts of biofuels
Session 4: How will Missouri participate?

Information and free registration is available at:
<http://lifescienceandsociety.missouri.edu>

POLICY from Page 1

conference participants to point out the many successes of higher education when they talk to legislators, parents of students and alumni.

Road map through cacophony

Dickeson said that his task as keynote speaker would be "to develop a road map to guide us through this land of cacophony." He began by outlining some of the external and internal pressures that shape colleges and universities.

U.S. higher education's reputation for quality is in danger of slipping. A recent study found that America ranks seventh in a group of 30 developed nations in the percentage of the population that enters and completes a postsecondary education program. "Our student retention rate has not changed in 29 years. We need to do a better job," Dickeson said.

Another recent study found that the average literacy of college-educated Americans declined significantly from 1992 to 2003, and only 25 percent of college graduates could be considered "proficient" from a literacy standpoint.

At the same time, one-third of entering college students require remedial work in reading, writing or mathematics, which raises serious questions about universities' admissions policies, he said. "Are institutions admitting students who have some reasonable expectation of success or are they playing a numbers game for financial purposes?"

Colleges and universities are not meeting the public's need for reliable information

about access, costs, educational options and student success, Dickeson said. Some accreditation leaders fear that more transparency will lead to an adversarial accreditation process, a "smothering of trust critical to self-analysis" and unwanted press coverage.

"In the absence of information being provided that the public wants, the void has been filled by *U.S. News & World Report*," he said. "Institutions that complain about the *U.S. News* approach to public accountability should insist that some other entity fulfill this responsibility by asking the right questions — and publishing the answers."

Challenges to higher education

Public funding is another challenge that state-supported institutions face. Higher education funding has increased overall, Dickeson said, but public universities are receiving smaller state appropriations per student and "sharing a declining portion of state budget allocations." That shortfall in public funding is likely to be a long-term issue. Dickeson pointed to a 2005 study by the Rockefeller Institute that found all 50 states are experiencing what economists call a "structural deficit," which is when tax revenues are too low to support required government spending.

According to the Rockefeller study, the national average of the structural deficit among states is projected to be 5.7 percent of revenues by 2013; for the state of Missouri the structural deficit is projected to be 7.4 percent.

"Structural deficits symbolize the adherence to

a failed ideology: that tax cuts are the key to political success and that they trump the positive purposes of the public polity," Dickeson said. "Higher education is seen as just another state bureaucracy, ripe for the cutting."

A changing student demographic is another challenge confronting higher education, he said. For instance, 18- to 20-year-olds living away from home for the first time now make up a minority of entering college students. Today's students are older and work more hours at part-time jobs. More than half start post-secondary education at community colleges.

"Faculty must come to understand that the students coming to us now and in the immediate future are not as well prepared and will require a different set of services and strategies if they are to learn at higher levels," he said.

In addition to the external pressures on higher education, institutions are guided by what Dickeson called "the power of legacy." Faculty members are taught to focus on content, he said, and are rewarded for their increasing specialization rather than understanding students' different learning styles.

"We define who we are by our content expertise. We secure whatever claim to power we have by our mastery of content. We are not usually taught how to impart content to a variety of learners and learning styles," he said. "We are more apt to teach as we were taught and to assess as we were assessed."

IN brief**Focus on overall health, not fad diets**

An MU nutrition expert agrees that fad diets will take off weight, but that weight loss won't last, and it isn't healthy. "Fad diets appeal to people because they focus on weight loss and not on overall health," says Pam Hinton, associate professor of nutritional sciences in the College of Human Environmental Sciences. "We want people to focus on nutrition and health. People need to recognize that there are benefits to be gained from a healthful diet besides just weight loss."

Many people believe that healthy eating is just too hard, but Hinton says people make the obstacles larger than they really are. She points out that vegetables can be cooked in the microwave just as easily as heating processed food. "Nutrients haven't changed; the foods that have the nutrients haven't changed," Hinton says. "If people simply followed the food pyramid, most would lose weight."

Moderation and variety are the keys to long-term healthy eating. Hinton suggests that people experiment with some changes and see if they feel better. Above all, don't fall for fads, she says. It doesn't work in the long run because it is usually a modification that people can't sustain. "The risk for virtually every chronic disease is greater for people who are overweight," Hinton says. "It's not just about how people look; weight is a part of overall health."

Can your lawn mower cut it?

A good tuneup will get your cranky lawn mower up and running after sitting in the garage all winter, says Bill Casady, an MU Extension agricultural engineering specialist. "A properly maintained lawn mower reduces emissions and the fuel needed to get through grass cleanly and efficiently."

A spring tuneup should include a steam cleaning, change of air filter and oil, a new spark plug and sharpening the cutting blade, Casady says. A sharp edge on cutting blades provides a performance boost for your engine and lawn. The mower's clean cut leaves grass healthier and reduces the power and time required to cut the grass, he says.

Homeowners can get ready for spring by having their lawn mowers or tillers cleaned and tuned at the annual service offered by students in the MU Agricultural Systems Management Club. Customers can drop-off their push-type machines at the east end of the Agricultural Engineering Building on Rollins Street from 7 to 9 a.m. or 4 to 6 p.m. on March 1 or March 2. Pickup times are 7 to 9 a.m. or 4 to 6 p.m. on March 5 or 6. Students steam clean each mower, clean the air filter and put in a new spark plug, change the oil and sharpen the blade for \$30. All machines must be in working order, and no riding mowers can be serviced. For more information, call 882-2731.

Faculty-Staff Golf League tees up

The MU Faculty-Staff Golf League is now organizing for its 43rd season, and teams will hit the links at A.L. Gustin Golf Course the week of April 22. Each year, nearly 160 players are organized into 20 or more teams.

Each team plays a weekly nine-hole match at 4 p.m. on either a Tuesday or Thursday. The summer season's weekly matches run through early July. The league is then reorganized for a fall season, which runs from late August through late October.

All play is handicapped, and participation is open to all full-time employees, retirees, graduate teaching and research assistants, and employees of agencies based at MU. New members may join one of the existing teams. If three or four new players want to organize a new team, the league can assist them and provide a few additional players. For more information, call Dale Karr, league president, at 884-1281 or e-mail karrd@missouri.edu, or call Rex Dillow, league secretary/treasurer, at 445-7183 or e-mail rex.dillow@mchsi.com by the end of March.

The MU College of Business presents the Tom and Betty Scott CEO Forum

"The Great Game of Business: Becoming a Business for Business People"

John P. "Jack" Stack
President and CEO
SRC Holdings Corporation



Stack founded SRC Holdings Corporation in the early 1980s as he led an employee buyout of International Harvester's remanufacturing facilities in Springfield, Mo. SRC now has annual sales of \$300 million and has invested in, started, or acquired 47 businesses in the past 23 years. Stack has authored two books focused on his open-book business management style, *The Great Game of Business* and *A Stake in the Outcome*.

Thursday, March 1, 2007 • 3:45 pm
Bush Auditorium • Cornell Hall

M College of Business
University of Missouri-Columbia
www.business.missouri.edu

The lecture is free and open to the public.

Parking is available on the upper level of Turner Avenue Garage. For more information, call the College of Business at 882.6768.

Ethanol will fuel food price increases

GAS OR BUTTER?

Fuel production changes the face of agriculture

Consumers won't see much change in the price of a box of corn flakes or a package of corn tortillas, but growth in U.S. ethanol production – and its increased demand for corn – will push the price of meat, eggs and dairy products higher, according to an MU economist.

"It's not the food made from corn, it's the food from animals that eat corn that will increase,"

says Ron Plain, professor of agricultural economics. "This is a major shift for agriculture. In the past, corn producers have grown food for people and feed for livestock. And now we add fuel for our cars to the list. I don't see us doing that without having a lasting impact on the face of agriculture."

With corn currently trading around \$4 per bushel, crop farmers are enjoying the highest corn prices in more than a decade while livestock producers are feeling the pinch of higher feed costs for their cattle, hogs and poultry.

Plain says as more acreage shifts to corn, prices for other commodity crops would increase. "Prices for soybean, wheat, cotton and rice will go up as we plant more and more acres out of those crops and into corn," he says.

Higher feed costs put pressure on the livestock industry to cut production, he says. Plain expects U.S. cattle, swine and poultry inventories to shrink, resulting in higher prices at the local grocery store.

"I would argue that ethanol and inflation will raise the

prices for meat, eggs, milk, cheese and other dairy products around 12 percent by 2009," he says. "I don't expect consumers to reduce meat and dairy consumption much because of the increase, however."

Of larger concern is the willingness of foreign customers to pay more for U.S. corn, he says. "The real winners are the owners of land that can grow corn because land values will continue to increase," Plain said. "It's not good news for the big corporate livestock producers such as Tyson and Smithfield."

"It's going to be tough for the next couple of years."

classifieds

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Ashley Ridge Condos at MU Campus. Luxury 1 & 2 bedroom apartments for faculty, staff, graduate and professional students. Quiet, spacious, energy efficient, cable TV, w/d hookups, carports. \$500-\$545. Call (573) 445-1892. www.denice.com.

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