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Jan. 25, 2007
University of Missouri-Columbia

Coming right up

SOUP'S ON

Satisfaction is on the menu at Campus Dining Services

As the first-ever executive chef for Mizzou's residential dining halls, Eric Cartwright is used to breaking new culinary ground on campus. Sometimes that means tackling unusual problems. This past summer, a visiting chef drew up an ingredient list for a culinary workshop to train Campus Dining Services staff that had Cartwright scratching his head.

The list included Japanese udon noodles; the pungent Vietnamese fish sauce called nuoc mam; coconut milk; sambal oelek, a fiery chili paste that flavors Indonesian cuisine; and kaffir lime leaves and a ginger-like rhizome called galangal, both used in Thai cooking.

It turned out that many of those ingredients already were staples in MU pantries. The only item Cartwright couldn't track down was something called sawleaf herb, an ingredient in many Vietnamese dishes. He ended up substituting coriander in his version of the classic Saigon street fare, sweet and tangy tangerine spare ribs.

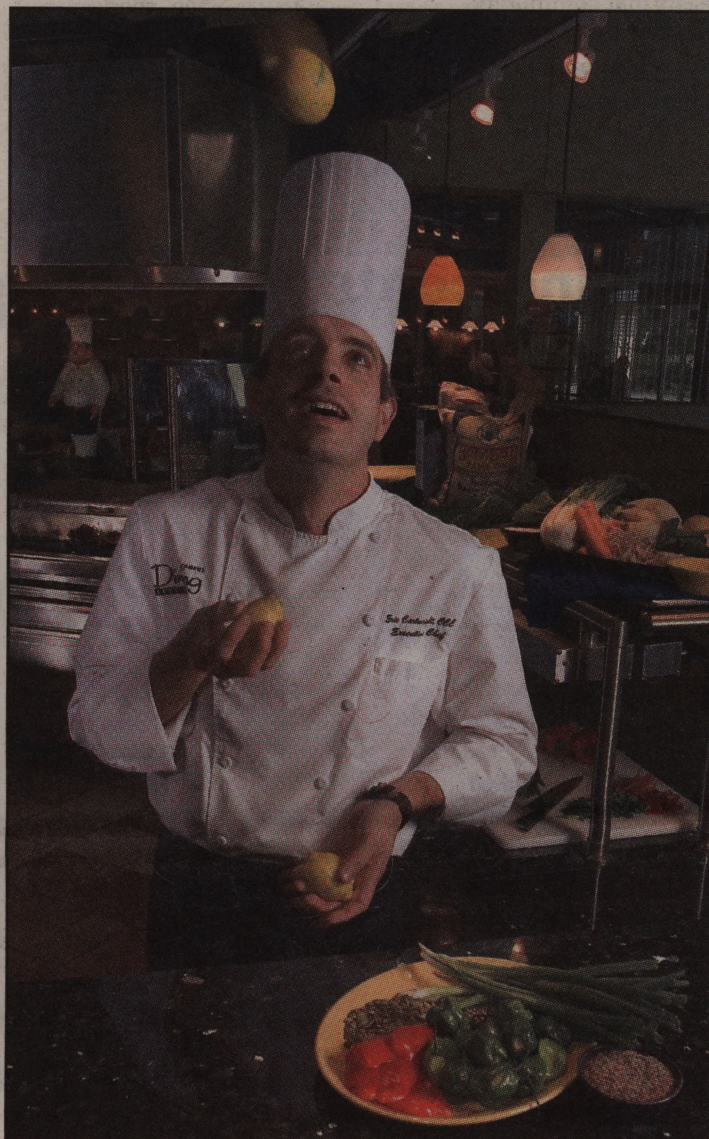
Wait a minute, what's going on here? Tangerine spare

ribs, fish sauce and kaffir lime leaf in residence hall dining rooms? And isn't "campus chef" an oxymoron? Alumni from earlier decades may recall their dorm food experience as day after dreary day of powdered eggs for breakfast and mystery meat for lunch. No evening meals served on Sundays. Take only what you can eat. Sit up straight in your seat.

Food for thought

In the past 10 years, America's fascination with food has swept onto college campuses with a vengeance. Students and parents want the whole enchilada. What was tolerated 20 years ago is unthinkable today. At the same time, colleges and universities see the campus dining experience as a way to attract and retain students. They vie with each other to offer more and better options: vegetarian and vegan menus, organic and locally grown produce, fair trade products and ethnic food selections.

"Part of that is our students," Cartwright says. "They're no longer satisfied with just a straight-line cafeteria: 'Here's your one meat and your two casseroles, and that's what you get.' Society has changed. Our students



Rob Hill photo

NOW WE'RE COOKING Eric Cartwright, the first-ever executive chef for Campus Dining Services, juggles all the ingredients to create bold menus for 6,000 students in residence hall dining facilities.

group up with many more choices today, and they expect that when they come here."

It's a whole new world of dining for Mizzou's nearly

6,000 residence hall students.

Twenty years ago, all of Campus Dining Service's operations served exactly the same menu, and students mostly ate at the

dining hall next to their dorm. Second helpings were available, but you had to go back through the serving line to get them, a half-portion at a time.

Today, MU has five residential dining facilities, and a meal card allows students to eat at any of them. Each one is an all-you-care-to-eat operation that includes a grill area with burgers, fries and chicken sandwiches; a deli, where students can design their own sandwiches; a station that serves hot entrees; a salad bar loaded with fresh greens, veggies and fruit; a dessert and sundae bar with fresh-baked cookies. Students can have unlimited refills of all that plus milk, soy milk, soft drinks, juices and specialty coffee drinks.

Each of the facilities also has a specialty. At Eva J's in Johnston Hall, there's J Wok, with Asian selections from Thai to Japanese stir-fried on the spot for individual diners. Mark Twain Hall has Mark Twain Market, where World Fare spotlights international cuisine, whether it's German or Brazilian or a good, old-fashioned Chicago dog. Pavilion in Dobbs Hall serves up vegetarian and vegan offerings each day. Rollins Hall specializes in pizza that's also available for take-out from 8 to 11 nightly. MU's newest dining facility, Plaza 900, is a student favorite that features

SEE Chef on Page 5

MOHELA, stem cell research expected to spark legislative debate

SETTING PRIORITIES

Legislative forum previews current General Assembly session

The MOHELA issue might well become the 600-pound gorilla that dominates this session of the Missouri General Assembly, local lawmakers told a gathering of Mizzou alumni at a Jan. 18 forum in Columbia. The forum was sponsored by the MU Alumni Association and the association's Boone County chapter.

Part of the debate is whether money from the

Missouri Higher Education Loan Authority — MOHELA — should be used to fund building projects at state colleges and universities around the state. Gov. Matt Blunt proposed that approach nearly a year ago as part of his Lewis and Clark Discovery Initiative.

The governor's proposal would provide funding for capital projects on college campuses, for student scholarships and for technology transfer programs. The initiative included funding for a new medical sciences research center at MU. Last

year it bogged down when some legislators questioned its legality, suggested different uses for some of the money and proposed banning the funding from being used for stem cell research.

Most lawmakers at the recent Columbia forum agreed that MOHELA would take center stage again in this legislative session, but questioned what form the final legislation will take. Sen. Chuck Graham, D-Columbia, said he often is asked whether he supports Blunt's plan for college construction funding. "I ask,

'Which plan?' I've not seen the latest plan," Graham said. He cautioned that some versions of a MOHELA bill might well include performance measures for higher education, a cap or freeze on tuition, and language prohibiting stem cell research.

"Everything you add to the bill might bring votes, but it might also lose votes," Graham said. "Opposition to stem cell research is going to be the greatest challenge we have in the next two years."

Rep. Ed Robb, R-Columbia, said "a lot of things are on the table" as the legislature

debates the MOHELA issue.

"It's absolutely essential that we pass the legislation to construct those buildings," Robb said. "This state is going to see a decline in the number of jobs in manufacturing. We need to find something to replace them."

Jeff Harris, D-Columbia and House minority leader, agreed that passing the MOHELA initiative is a top priority. "It's gone through a number of twists and turns," Harris said of the proposal. "I've visited with the governor, and I think he's confident we can get this done."

Is King's dream deferred?

Mizzou will celebrate the legacy of slain civil rights leader Martin Luther King with a keynote address tonight by alumnus and *Kansas City Star* columnist Lewis W. Diuguid. The topic of his talk will be "Has His Dream Been Deferred or Fulfilled?" from 7 to 8:30 p.m. Jan. 25 at Bush Auditorium in Cornell Hall. A reception will follow.

Diuguid, an MU journalism graduate, currently is vice president for community resources with the *Star*. He has written broadly about

diversity issues, including his 2004 award-winning book, *A Teacher's Cry: Expose the Truth About Education Today*. The book is an examination of urban education as Diuguid followed the class of 1999 through four years of their lives and classroom experiences at Washington High School in Kansas City, Kan.

In his columns and other writings, Diuguid insists that community involvement in schools and in the classroom is critical to improving education.

At home at Mizzou

Don Graham touched the lives of tens of thousands of MU students during his nearly 40 years working for Residential Life. He came to Mizzou as a student in 1954 and never really left. After working in a residence hall as a personnel assistant while he was a student, Graham went to work full-time for Residential Life in 1958. He retired in 1997 as associate director and died Dec. 28, 2006.

Before his death, Graham's many colleagues across campus launched a scholarship endowment in his honor. Graham

was thrilled to attend the announcement ceremony held over Homecoming weekend last October during a reunion of past residence hall student workers.

Now the scholarship fund is almost to the \$10,000 level required for an endowment. The scholarships will be need-based and are intended for students who live in the residence halls and are active in their community. With questions about the endowment, call Brandi Herrman-Rose at 884-9449.

Presidential search advances

The University of Missouri last week completed negotiations and hired the global executive search firm Baker-Parker Inc. to conduct the search for the UM System's next president.

At a Jan. 11 meeting, the University's Board of Curators heard presentations and proposals from Baker-Parker and two other search firms. The University's contract with Atlanta-based Baker-Parker was signed on Jan. 19 by Don Walsworth, chair of the board. The company's professional fee for conducting the

Financial counseling center is going for broke

BANKRUPT

MU center attempts to break cycle of debt

Federal law requires people who want to file bankruptcy to seek financial counseling first. Mizzou's Office for Financial Success has earned the right to provide such counseling to the nation. MU is the only university in the nation to be approved for nationwide pre-filing bankruptcy counseling by the U.S. Trustees Office.

"This is an important designation for us," says Rob Weagley, chair of personal financial planning in the College of Human

Environmental Sciences. "We not only generate revenue to support our students attending conferences and to fund student scholarships, but we engage our students in counseling to actually apply communication skills that are crucial to the financial services industry."

Mark Oleson, director of the Office for Financial Success, says consumer benefit when bankruptcy counseling comes from an unbiased source. Consumers often are bombarded with advertisements for loan consolidation and other debt management products. Oleson believes that a "product-free" counseling

environment is important.

Many people who are preparing to file for bankruptcy only look at the short term, Oleson says. While a bankruptcy filing often will eliminate most debt and stop creditors from calling, it doesn't necessarily solve the long-term problems. For example, if unemployment continues and the bills accumulate again, the person who filed will be right back in the same situation in a matter of months. Once someone has filed for bankruptcy, he or she is prohibited from doing so again for six years.

"There has been an upward

trend in the number of people filing for bankruptcy, and only education can stop the cycle," Oleson says. "In the past, if someone filed for bankruptcy, they were more likely to file again because spending habits, or other factors that led to bankruptcy had not changed. It can become an unending cycle. Hopefully, the new law with a required education component can end the cycle."

Oleson and his students are working to make the public savvy consumers of financial services. Eliminating debt, opting out of solicitations, negotiating a lower credit card rate and understanding changes


to student loan legislation — are just a few of the topics that have appeared in thousands of e-mail inboxes from the Office for Financial Success' "Financial Tip of the Week."

More students will drop out of college for financial reasons than academic reasons, Oleson says, so he created the program to let college students know that financial help is available.

The program has grown so large that the free weekly e-mail is now sent to a list of 43,000 consumers nationwide. A link to enroll in the program is at financialsuccess.missouri.edu.

The idea also captured the attention of Freddie Mac, which awarded the program with the first place 2006 Successful Models in Financial Education Award in the category of successful outreach and marketing.

"Students preparing to graduate may find themselves with student loans to manage, their own bills to pay for the first time and 401K decisions to make and have no idea where to begin," Oleson says. "Workshops are good but lack personalized information."



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"Preparing Undergraduates for Graduate Study"



MizzouWeekly

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search will be \$125,000, plus expenses.

Baker-Parker will work with the Board of Curators to identify and recruit candidates to succeed President Elson S. Floyd, who was selected in December to become the next president of Washington State University.

The board, along with its student representative, will serve as the presidential search committee. It is scheduled to meet next during the board's regular meeting Jan. 24-25 on the campus of the UM-St. Louis.

Shoo to the flu

Winter might be winding down, but there's plenty of cold weather yet to come. That means the flu season will linger a while as well. If you haven't already received your flu shot this season, it's not too late. MU's Health Connection continues to offer flu vaccinations — both the flu shot and the flu mist are available — at a cost of \$30. Medicare payments also are accepted.

Flu vaccinations are offered from 9 a.m. to noon on Mondays, Wednesdays and Fridays as long as vaccine supplies last. The Health

Connection, a community health, wellness and research center for MU's School of Health Professions, is located in Hillcrest Hall on the Stephens College campus at 1507 E. Broadway.

The federal Centers for Disease Control and Prevention recommends that individuals who are at high risk of complications from the flu receive vaccinations. Those at high risk include children from six months to 5 years old, pregnant women and adults older than 50. For more information, call the Health Connection at 882-1718.

Brouhaha on the border

MU and its longtime sports rival, the University of Kansas, will move the schools' football games to Arrowhead Stadium in Kansas City, Mo., for the 2007 and 2008 seasons. Both games are scheduled for Thanksgiving weekend each year.

Details have not been finalized, but the basic agreement guarantees each school \$2 million for holding the games in Kansas City. Mizzou Athletic officials announced that they will give \$250,000 of that back to the University to fund an endowed scholarship.

Mizzou's 2008 non-conference schedule has yet to be finalized, but that year's Kansas game will be replaced with a non-conference contest in Columbia in September, in order to keep six home games during that season. Athletic Director Mike Alden says the University met recently with Columbia business leaders to discuss the move and address their concerns about lost revenues.

Over the years, the Mizzou Tigers and the Kansas Jayhawks have played 115 games — the nation's second longest rivalry.

Tigers who accept nothing less than the best

IMMERSED IN MIZZOU

Award honors excellence among development staff

Some people are just born Tigers. Take Dale Wright, for example. His baptism into Mizzou tradition started earlier than anyone expected.

Because of complications from their premature births, he and twin sister, Gayle, were immediately air-lifted from Kennett, Mo., to University Hospital where, he says, "I credit Mizzou with my being given a chance in life. I continue to feel indebted to Mizzou. I am partly driven by this and it is why I do all that I can to help Mizzou succeed."

On Jan. 5, Wright was one of six staff members in the development and alumni relations division to receive an inaugural Columns of Excellence Award.

The recognition program resulted from a divisionwide communication survey conducted last year, says Ron Kelley, director of principal gifts and chair of the awards program and of the selection committee. The awards are given to staff who best reflect Mizzou Alumni Association's six guideposts of discovery, responsibility, respect, diversity, pride and tradition.

Anyone within the division



Rob Hill photo

STAFF RECOGNITION The development and alumni relations division recently presented six of its staff members with the first-ever Columns of Excellence awards. The winners were, from left, Catey Terry, Dale Wright, Emma Baldrige, Valerie Goodin, Nicole Theberge and John Brandt who, according to their nominators, best reflect Mizzou Alumni Association's guideposts of discovery, responsibility, respect, diversity, pride and tradition.

can nominate staff members who demonstrate a high level of contributions and performance while developing innovative approaches and practices that enable the division to fulfill the University's mission more effectively.

"This is a good way to recognize the excellent work our staff do for the division," Kelley says, "and it is a good way for peers to recognize their colleagues. The 30 individuals

who were nominated for the six categories represented a good cross section of individuals from throughout the division."

The 2006 winners are: discovery, John Brandt, system administrator in the alumni-development information services office; responsibility, Emma Baldrige, supervisor of the alumni-development gift processing office; respect, Catey Terry, director of development for journalism; diversity, Valerie

Goodin, associate executive director for alumni relations; pride, Nicole Theberge, coordinator of special events for engineering; and tradition, Dale Wright, development officer for business.

Wright earned a bachelor's degree in 1999 and a master's degree in 2006 at MU. Before transferring to the College of Business, he served as coordinator of student programs and assistant director

of alumni and student programs for the Mizzou Alumni Association, and a development officer for university projects with the development office.

"To define Mizzou tradition you have to immerse yourself into Mizzou," he says. "I sometimes selfishly wish people could see Mizzou through my eyes," he says. "I enjoy the beauty of the campus, the sights and sounds of the students, faculty and staff interacting, the fight song playing from Reynolds Alumni Center. Being a Tiger means accepting nothing less than the best — embracing and understanding the history of Mizzou so that when challenges arise you are best equipped to solve any problem."

Colleagues in the business college are aware of his pride in and passion for Mizzou. One nominator writes: "Dale's pride for his alma mater drives him to build relationships grounded on trust, vision and the general success of the University. The original Tigers were Civil War soldiers who fought to protect Missouri. Today, Dale is one of the Tigers who fight to keep the traditions and namesake of the University of Missouri alive and strong."

With questions or for more information about the Columns of Excellence Awards Program, call Kelley at 884-3678 or e-mail kelleyr@missouri.edu.

MU scientist has a banner year

BREAKING BOUNDARIES

Researcher recognized for his contributions to nanomedicine

For Kattesh Katti, professor of radiology and physics, 2006 was an impressive year. The year got off to a good start in

March, when the president of India praised Katti's work in nanomedicine during an inaugural speech at the Global Nanosciences Initiative in New Delhi.

But Katti's banner year ended on an especially high note: In early December he traveled to one of the world's

most prestigious universities, the Academy of Sciences in Göttingen, Germany, to lecture on his research and to receive the Gauss Professorship Award.

The award is named in honor of Carl Friedrich Gauss, a famed mathematician noted for his many contributions to physics, particularly in the

study of electromagnetism. The award is given each year to a leading scientist in one of Gauss' fields of interest, and nominations come from across the globe.

"I consider the Gauss Professorship the highest honor for me, our department and the University of Missouri-Columbia," Katti says. "This award is usually given to

mathematicians or physicists."

But the icing on the cake came later in December, when Katti was selected for the Outstanding St. Louis Scientist Fellows Award for 2007 by the Academy of Science of St. Louis. He was selected in part because of the international recognition he has received for his contributions to

SEE Katti on Page 7

calendar



Concerts & Plays

Thursday, January 25

THEATER SERIES: *Booby Prize, A Comedy About Breast Cancer*, written and performed by Heather Carver and directed by Kevin Babbitt, will be presented at 8 p.m. today, Jan. 27 and Feb. 2, and at 2 p.m. Feb. 4 in the Corner Playhouse. For ticket information, call 882-PLAY.

Friday, January 26

UNIVERSITY CONCERT SERIES: The Moscow Festival Ballet, with a dance company that includes starts of the Bolshoi and Kirov ballets, will perform *Cinderella* at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781 or order online at www.concertseries.org

THEATER SERIES:

Being Frank, a look at the life of Anne Frank's father, written and performed by Kevin Babbitt and directed by Heather Carver, will be performed at 8 p.m. today, Feb. 1 and 2, and at 2 p.m. Jan. 28 in the Corner Playhouse. For ticket information, call 882-PLAY.

Monday, January 29

FACULTY RECITAL: Tiffany Blake, soprano, and Peter Miyamoto and Ayako Tsuruta, piano, will perform at 8 p.m. in the Whitmore Recital Hall. Suggested Donation; \$5.

Tuesday, January 30

STUDENT RECITAL: Student composers Ryan Hampton and Mark Woodward will perform at 7 p.m. in the Whitmore Recital Hall. Suggested Donation; \$5.

Wednesday, January 31

UNIVERSITY CONCERT SERIES: Andrew Lloyd Webber's theatrical sensation *CATS* will be presented at 7 p.m. today and tomorrow in Jesse Auditorium. For ticket information, call 882-3781 or order online at www.concertseries.org.

Friday, February 2

LECTURE RECITAL: Janice Wenger, professor of music, will introduce MU's new reproduction of a 19th century fortepiano, a forerunner of the modern piano, at a recital and lecture at 8 p.m. in Whitmore Recital hall in the Fine Arts Building. Suggested donation: \$5.

Exhibits

MUSEUM OF ART & ARCHAEOLOGY:

- "South Asian Sculpture" features selections of Buddhist and Hindu sculpture from the museum's permanent collection.
- "The Forgotten Art of Engraving" is on display through July. It explores the history of engraving technique and displays

prints by such masters as Albrecht Durer, Hendrick Goltzius and William Blake.

- "Final Farewell: The Culture of Death and the Afterlife," which explores cross-cultural themes of the afterlife and their impact on art, begins Feb. 10.

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:

- "Plurality — A Showcase of Graduate Student Artworks" includes works in sculpture, painting, ceramics, fibers and printmaking by MU fine arts students through January 26.

- "Printed Matter," featuring recent screen prints by local artists Ric Wilson, AWG and Bob Hartzell will be on display from Jan. 29-Feb. 15. An opening reception will be held from 4-6 p.m. Feb. 1.

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

STATE HISTORICAL SOCIETY:

- "Light & Life in Missouri: Photos by Notley Hawkins" will be on display through May 12 in the north-south corridor gallery.
- "The Stories They Tell: Understanding Missouri History Through Maps," an exhibit of more than 30 maps organized by Walter Schroeder, associate professor emeritus of geography, which explores Missouri topics that range from the Civil War to the 1874 locust infestation, is on display Jan. 27 to June 30 in the main gallery.

An opening reception for both exhibits will be held from 2-4 p.m. Jan. 27.

Courses & Workshops

Monday, January 29

COMPUTER TRAINING: "Creating Web Pages" will be offered at 1 p.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at training.missouri.edu.

Tuesday, January 30

COMPUTER TRAINING: • "PowerPoint 2003 Visual Objects & Special Effects" will be offered at 8:30 a.m. 4D11 East Ellis Library. • "Photoshop CS2: Selections & Layers" will be offered at 1 p.m. in N3 Memorial Union. • "Formatting with Cascading Style Sheets" will be offered at 1 p.m. in 4D11 East Ellis Library.

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

BUSINESS PLAN WORKSHOP: MU's Center for Innovation and Entrepreneurship will present "The Basics of Writing a Business Plan" from 6-9 p.m. at the Extension Training Center, 3215B Lemone Blvd.

Cost: \$39. To register, call 882-7096 or go to www.missouribusiness.net/ucie.
Wednesday, January 31
COMPUTER TRAINING:

- "Excel 2003 for Starters" will be offered at 8:30 a.m. in N3 Memorial Union.
- "InDesign CS2: Modifying Documents, Workflow & Drawings" will be offered at 8:30 a.m. in 4D11 East Ellis Library.
- "Dreamweaver 8.3: Assets, Rollovers & Multimedia" will be offered at 1 p.m. in N3 Memorial Union.

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

Thursday, February 1

COMPUTER TRAINING: "Excel 2003 Charts & Graphics" will be offered at 1 p.m. in N3 Memorial Union. Registration is required, call 882-2000 or register online at training.missouri.edu.

Friday, February 2

COMPUTER TRAINING: "Access 2003 Relationships & Queries" 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, February 2

NONVIOLENT COMMUNICATION WORKSHOPS: Miki Kashtan, a trainer with the Global Center for Nonviolent Communication will present the free workshop "Introduction to Nonviolent Communication" from 7-9 p.m. in the Adams Conference

Center at the east end of the Veterinary Medicine Building. She will offer two additional day-long workshops from 9:30 a.m.-5 p.m. in Memorial Union North: "Saying What You Want Without Regretting It Later" on Feb. 3 and "No More Enemies" on Feb. 4. To register, contact Lynn Rossy at RossyL@health.missouri.edu.

Lectures & Seminars

Tuesday, January 30

BIOLOGICAL SCIENCES SEMINAR: Claude dePamphilis from Penn State University will present "Floral Genomes, Ancestral Genomes: Comparative Genomics for Understanding the Origin and Diversification of the Flower" at 3:30 p.m. in the Life Science Center's Monsanto Auditorium.

EXHIBIT LECTURE: Walter Schroeder, associate professor emeritus of geography, will give an in-depth tour and discuss how he selected more than 30 historical Missouri maps for the exhibit "The Stories They Tell: Understanding Missouri History Through Maps" now on display at the State Historical Society, from 5:30-6:30 p.m. at the historical society.

Thursday, February 1

MICROBIOLOGY & IMMUNOLOGY SEMINAR: Makoto Kuroo, associate professor of pathology at the University of Texas Southwestern Medical Center, will

present "The Klotho Gene Family: Regulator of Aging and Growth Factor Signaling" at 1:15 p.m. in Acuff Auditorium, MA217 Medical Sciences Building.

BLACK HISTORY

LECTURE: Robert Williams, an emeritus faculty member from Washington University, will present the keynote address for MU's Black History Month observance, "And Still We rose: From the Cotton Shacks to Cadillacs" at 7 p.m. in the Gaines/Oldham Black Culture Center.

WRITING PROGRAM

SEMINAR: Anne Feldman from the University of Illinois-Chicago, a candidate for director of MU's Campus Writing Program, will present her vision for the future of the writing program at an open forum for members of the campus community from 2:30 p.m. to 3:45 p.m. in S203 Memorial Union.

Saturday, February 3

SATURDAY MORNING

SCIENCE: Maikel Rheinstadter, assistant professor of physics, will present "Biophysics and Biology on a Molecular Scale" from 10:30-11:30 a.m. in the Life Sciences Center's Monsanto Auditorium. This lecture series is intended for everyone, regardless of their science background.

Fighting the stress of flying

AIR SAFETY

New laser system finds tiny structural cracks

A seaplane broke apart and plunged into the waters off the coast of south Florida. An air tanker disintegrated and crashed while battling a California forest fire. A commercial airliner lost part of its upper fuselage before landing at a Hawaii airport. The official cause of each occurrence: material fatigue, which resulted in cracks that compromised the structural integrity of the aircraft.

A new and reliable method for identifying potentially dangerous cracks in aging aircraft has been developed by an MU researcher. P. Frank Pai, professor of mechanical and aerospace engineering, can detect tiny cracks within various materials — including aluminum alloy and composite laminates, which are the two primary materials used to build airplanes. He uses a vibration-based technique named the "Boundary Effect Evaluation Method" and a scanning laser vibrometer, and says the inspection can be done with the aircraft fully

intact and for less money than the traditional method.

During laboratory tests, Pai attaches piezoceramic patches to composite laminate and aluminum alloy structures. When electrical voltage is applied, the patches produce small vibrations. The laser vibrometer scans the structure at various uniformly distributed points, measuring vibration levels.

The data is relayed to a computer and processed by a sophisticated mathematical theory developed by Pai, which is the basis of the new evaluation method. Once analyzed, the locations and sizes of the cracks are displayed on the computer's monitor.

Although other inspection methods exist, Pai's technique differs. First, the traditional ultrasound method requires the structural component to be disassembled from the aircraft, placed in water for an ultrasound scan and then reassembled. Pai's method allows for inspection of the entire aircraft while it's fully assembled, especially critical sections near the fuel tank and wing and body junctions.

Pai says that many aircraft companies, as well as NASA, are developing structural damage inspection methods using high-power lasers to induce and measure stress waves. They produce high levels of heat, which Pai says can potentially damage the surfaces of structures. His method, which provides portability and can be transported to an airport or aircraft hanger uses a mobile and low-power laser that causes no harm. It's less expensive and requires less time than the other methods.

Pai has tested his method on fuel tank structures of Navy aircraft, the upper wing panel from an F-16 fighter jet and numerous other structures, successfully locating cracks and defects unnoticeable to the human eye.

He is attempting to present his method to the U.S. Air Force for future use. He also plans to make it available for structural integrity testing and the monitoring of aging mechanical systems and civil structures following natural disasters or wartime bombings.



Rob Hill photo

COOK-OFF Cartwright builds campus culinary expertise through events such as this past summer's Iron Chef-style contest for MU cooks. Campus dining staffers Skip Hines, far left, and Georgia Johnson, right, participate.

CHEF from Page 1

"exhibition" cooking, such as hand-flipped omelets for breakfast and specialty pasta dishes for lunch and dinner.

At home in the kitchen

Cartwright's job as executive chef is to help Mizzou meet those student expectations. Julaine Kiehn, director of Campus Dining Services, calls him the department's "idea man." He doesn't actually manage the kitchens, but he works with site managers to develop menus, suggests new products they can try and trains staff in food preparation and presentation.

On a typical day you might find Cartwright testing a new frozen dough product that will

let dining halls serve fresh-baked rolls in their deli lines and save money. He might meet with campus chefs to fine-tune a recipe that needs a little more oomph. Or he could brainstorm with architects to help plan new food service areas in the Brady Commons expansion that opens in 2010.

"We're building our culinary expertise, and the reason we're doing that is to increase customer satisfaction," Kiehn says. "We are adding more variety and quality to our menus. Eric's job is to lead in that area. It's very much about changing the culture."

Cartwright has an office at Campus Dining Services' headquarters in Plaza 900,

but most days he's out around campus, paying visits to dining facilities. At least once a week he grabs an apron and works side-by-side with kitchen staff, cranking out

200-portion recipes of a menu item. "It's so easy to lose sight of the real world if I'm not in the kitchen doing it hands-on with them," he says.

Talk to him one-on-one, and Cartwright comes across as thoughtful, low-key, even laid back. You won't find any of Emeril's "bam" or Bobby Flay's swagger, but that doesn't mean he lacks culinary credentials. His working uniform is a crisp white chef's jacket. He can debate with the best of them about the virtues of a *batonnet* knife cut versus a *brunoise* cut. His conversation is sprinkled with mantras from restaurant guru Charlie Trotter: "Cuisine is making food taste like it's supposed to taste," and "If it ain't broke, break it."

Cartwright has classical kitchen training from the culinary arts program at Johnson and Wales University. The American Culinary Federation certified him as a chef de cuisine. He's worked everywhere from five-diamond restaurants on the East Coast — line chef at the swank Dining Room at Ford's Colony in Williamsburg, Va. — to bussing tables at a local

steak and spaghetti house in his hometown of Gloucester, Va. His mother still tells a story about how he baked his first batch of *éclairs* from scratch at the age of 8, when he was barely tall enough to reach the kitchen counter.

"If you had asked me 10 years ago if I would ever be working in a campus dining environment, I'd have said, 'No way. I'm not going to make and serve food in a cafeteria,'" Cartwright says. "Then, after getting into it, I realized, 'Gosh, this is not at all what I expected.' Where campus dining has come is just unbelievable."

Student stamp of approval

Seeing is believing for Justin Ginter and his fellow students. Ginter, a senior political science major from Kansas City, Mo., says Plaza 900 is one of his favorite campus dining options. "It's top of the line," he says "It's really nice to see the food prepared in front of you. You know it's fresh." Ginter is president of MU's Residence Halls Association, a student government group that advises

Continued on Page 6

Now that's a horse of a different color.

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Good eaters

STUDENT FAVORITES

MU students chow down on cereal

Breakfast cereal" is a misnomer, says Eric Cartwright, Campus Dining Services' executive chef, because students eat the stuff for breakfast, lunch and dinner. "Cereal is no longer just for breakfast anymore," he says. "They eat it every day for every meal," he says.

Visit any of Mizzou's five residence hall dining facilities, and it's apparent that one of the most popular options is the staggering assortment of 17 cold cereals. Cinnamon Toast Crunch is the hands-down favorite, according to the most recent figures from Campus Dining Facilities. Students consumed 2,900 pounds of Cinnamon Toast Crunch last year and an estimated total of 12 tons of cereal in all.

Last year, Campus Dining Services served nearly two million meals. Here are some figures from last year that demonstrate MU students

have a healthy appetite:

- Students ate 111,000 pounds of tossed, shopped and other lettuce items for salads and sandwiches. They put 51,500 pounds of fresh tomatoes on their salads and sandwiches.

- They squeezed 608,500 individual catsup packets, poured 9,700 bottles of catsup from the dining room tables, and used 1,812 gallons from salad bars and in recipes.

- They ate 9 tons of cheddar cheese.

- They ate 20.5 tons of mashed potatoes (no word on the gravy), nearly 160 tons of French fries and 100,000 baked potatoes.

- Campus kitchens baked 736,000 assorted cookies.

- Students ate 230,474 hamburgers and 267,600 slices of bacon.

- They drank 36,484 gallons of juices, ate 188,000 apples and 77,000 oranges.

- Dining halls served nearly a half million toasted ravioli.



Rob Hill photo

SPICE OF LIFE Campus Dining Services' recipe for student satisfaction focuses on freshness and includes culinary touches such as this herb garden last summer near the Plaza 900 entrance.

Continued from Page 5

Campus Dining Services about student concerns and food preferences. He routinely talks with other students about their assessment of the campus dining scene.

Ginter says that students, for the most part, are happy with the food offerings and are pleased that Campus Dining Services takes their views seriously. "It's not your home-cooked meal that your mother would make at home," Ginter says, "but we're very fortunate to have the variety and quality we have." He says students like the

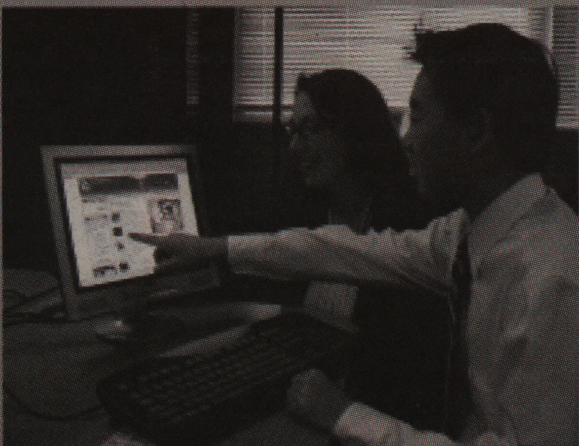
specialties offered at different dining halls, like the burgers made with fresh ground beef at Pavilion at Dobbs, and they like all the take-out options.

That's just what Cartwright likes to hear. "The more we diversify our menus, the more people start to expect that," he says. "It pushes us to do more."

There's another dimension to campus dining that colleges didn't give much thought to years ago — food as entertainment and food as security blanket. "Twenty years ago, you ate in the dorm because you needed

the nutrition to survive," Cartwright says. "We've started to realize that the value of food is so much more than just nutrition. That's a huge piece of it, but there's also a social factor. Students are leaving home for the first time, and there are a lot of challenges and changes they have to adapt to. Food is really a comfort thing, and in addition to quality food we try to give them a comfortable environment to help fill that gap."

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On history's stage

WATERGATE

Historical documents tell of President Nixon's downfall

The recent death of former President Gerald Ford once again highlighted the events that propelled him into the White House: the Watergate scandal and the resignation of President Richard Nixon. Just days before Ford's death, MU Libraries launched an online catalog that provides detailed search information about numerous artifacts and documents from the Watergate hearings that are preserved at University Archives.

This treasure trove of information can be found in the nearly 140,000 papers, photographs and documents of the late Don Sanders, a longtime Boone County resident who was deputy minority council for the Senate committee that investigated Watergate.

Sanders asked what was arguably the most important question of the investigation: Is there any kind of recording system in the White House? The answer set in motion Nixon's resignation.

Michael Holland, head of special collections, archives and rare books at the libraries, calls the collection a treasure trove of information that provides insights into how federal investigators

conducted their work.

"The information gives us an in-depth look at legal strategies that led to federal prosecutions and how to go from one lead to another," Holland said. "You see how Sanders was thinking."

During his career, Sanders worked as an FBI special agent, and an investigator, legal counsel and administrator for the federal government. The St. Louis native also was a Boone

County commissioner from 1988 to 1990 and earned law and history degrees at MU.

In addition to the Watergate documents, the collection includes papers and other material from Sanders' work with the FBI, House Committee on Internal Security, Atomic Energy Commission, the Department of Defense, Senate Select Committee on Ethics and Boone County Commission.

Among the collection's more interesting items, Holland

says, is a small pocket planner that appears meaningless at first glance. However, it contains the original notation for the July 13, 1973 meeting when Sanders asked the pivotal Watergate question.

"It looks very unimportant," Holland said. "It's amazing that for its plainness, it doesn't give you the impression that what's inside changed American government."

Holland says that Sanders started organizing his papers before his final illness, but it

still took more than two years to catalog the information with the help of two students. Sanders' widow, Dolores Mead, donated the materials to MU in 2004.

Holland says the collection is one of perhaps two or three that contain this breadth of information.

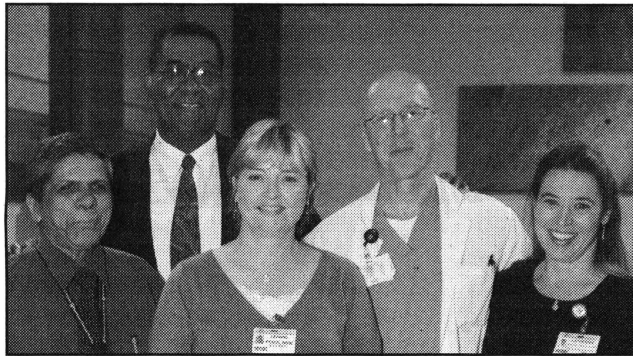
An online catalog of the documents is available at: muarchives.missouri.edu/c-rg22-s41.html.

Congratulations

UNIVERSITY HOSPITAL'S HOPE AND SPIRIT AWARD RECIPIENTS

In recognition of the miracles that happen each and every day at University Hospital, the hospital created the Hope and Spirit Awards to honor patients who demonstrate courage and perseverance in overcoming extraordinary circumstances in their lives. Awards were given throughout 2006 as part of University Hospital's 50th anniversary celebration.

Rod Kelly



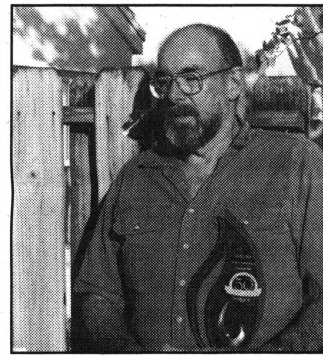
Ramesh Khanna, MD, Rod Kelly, Leanne Peace, MSW, LCSW, Joe Montgomery, RN, and Catherine Ashbaugh, APN

Rod Kelly has undergone two kidney transplants and a pancreas transplant since being diagnosed with diabetes in 1972. He credits the physicians and nurses at University Hospital for helping him cope with his diabetes.

After his first transplant, Kelly began sharing his experiences with other kidney transplant patients. He speaks with nursing students at the University of Missouri Sinclair School of Nursing and reminds them of their importance to patients and families during the recovery process.

Kelly is the assistant basketball coach at Hickman High School and a 24-year employee of Columbia Public Schools. He serves as president of the Douglass Athletic Association, board member of the Columbia Youth Basketball Association and media relations coordinator for St. Paul's A.M.E. Church. For 15 years he was the voice of Tiger basketball as a radio color commentator for MU basketball games.

Carl West



Carl West at his Florida Home

Carl West was returning from South Dakota to his home in Jupiter, Fla., when he stopped at a hotel in Columbia in August 1999. Extreme back pain gripped him and he dialed 911. West remembers paramedics arriving, but recalls nothing else of the next three days.

West was transported by ambulance to University Hospital's Emergency Room. He was diagnosed with an ascending thoracic aneurysm and surgeons performed an emergency operation. Numerous complications followed West's surgery, including circulatory arrest, kidney failure, atrial fibrillation, low blood pressure and pneumonia. After his three-week stay in the Cardiac Intensive Care Unit, West was transferred to the surgical floor. Two weeks later he was discharged to Rusk Rehabilitation Center.

Although a patient at University Hospital seven years ago and living more than 1,200 miles away, West has not forgotten the team that cared for him. Each year he sends a Christmas card to the Cardiac Intensive Care Unit staff and phones on his surgery anniversary date to thank the nurses who helped him.



KATTI from Page 3

chemistry, physics, nanoscience and radiochemistry.

The St. Louis academy called it "a rare feat to be distinguished in all of these fields simultaneously" and praised Katti's discoveries in the development of gold and silver nanoparticles for applications in nanomedicine.

Katti's research includes studies of metals and organometallics in the development of cancer diagnostic and therapeutic agents, biomedical optical imaging, new approaches to cancer therapy and new biomaterials for wound healing applications. Katti also has been a pioneer in initiating a nanomedicine research program and establishing the Nanoparticles Production Core Facility at MU. He provided leadership in coordinating the nanomedicine research program with an interdisciplinary group of MU, which led to the establishment of the Cancer Nanotechnology Platform with a \$3.2 million grant from the National Cancer Institute.

Winter woes

ICE PATROL

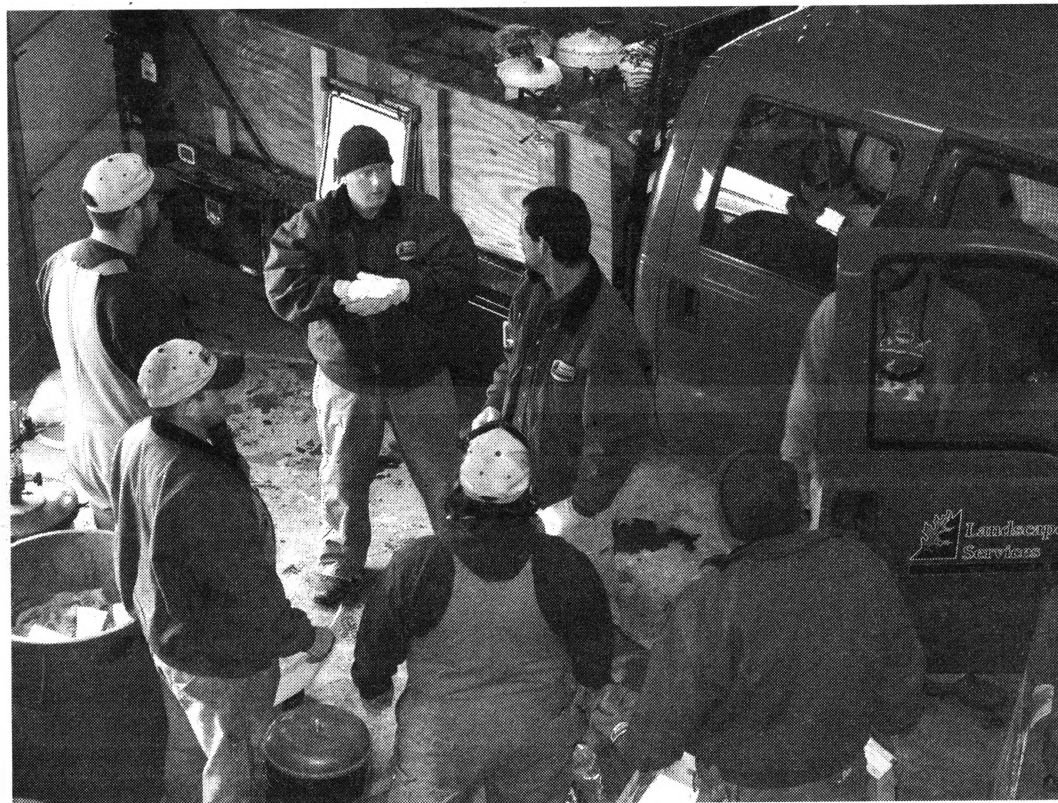
MU staffers pitch in for storm relief in southwest Missouri

Many of the 18 Campus Facilities volunteers who helped clean up after a killer ice storm in southwest Missouri had the same impression of the devastation they witnessed last week: They had never seen anything like it.

But for Terry Bethmann, a supervisor with Construction Services, the scene was an eerie reminder of his military tour in Southeast Asia nearly four decades ago. The Ozark hillsides reminded him of the Vietnamese countryside after a napalm strike. There was nothing but the bare sticks of tree trunks left standing.

Responding to a call from the State Emergency Management Agency, Bethmann led a team of MU staff members last Wednesday to the communities of Richland, Conway, Lebanon and Buffalo. After working 14-hour days clearing downed trees from roadways and utility lines, the team returned Friday evening just in time to pitch in on campus snow removal efforts last weekend.

The staff members came from two Campus Facilities units — Landscape Services and Construction Services. They traveled south in a



Campus Facilities photo

WEATHER RESCUE Landscape Services supervisor Scott Keith, in center of circle of workers, briefs Campus Facilities staff members who traveled to southwest Missouri last week to help communities there dig out from a devastating ice storm. Eighteen staff members from two Campus Facilities units — Landscape Services and Construction Services — helped clear fallen trees from roadways and power lines.

convoy that included two dump trucks hauling trailers loaded with two Bob Cats and plenty of chain saws and other tools. MU will be reimbursed by the state for its expenses, says Phil Shocklee, associate director of Campus Facilities.

The volunteers say the area looked like a war zone. "I'd say 90 percent of the trees were unsalvageable and 100 percent had damage of some sort," says Ryan Russell, an arborist with Landscape Services.

Tree limbs and downed trees were everywhere, coated with an inch-thick layer of ice.

Some giant trees had simply been uprooted by the weight of the ice. Fallen trees were lodged against power poles; electric lines sagged with ice.

The crew had to rely on advice from local power companies to avoid areas where electric lines were still "hot." People were trapped in their houses without light or heat, and in one town military police were going from door to door to check on residents.

In some areas, "we pretty much had to cut our way up the roads," Bethmann says. One day the crew worked through a 10-

mile section of road, and all that saw work could get more than a little bit hairy at times. With tree limbs weighted down by ice, "you didn't know which way they were going to go" when you cut them, Russell says.

One Richland resident told crew members that at night it almost seemed like the Fourth of July with the sound of trees breaking and the showers of sparks from blown-out electrical transformers.

The volunteers left Columbia with cots and other back-up gear, thinking they

might be forced to sleep in emergency shelters. When they got down to the storm area, they found that those shelters were filled with local residents displaced from their homes. Bethmann managed to find lodging for the crew in area motels.

The MU team got a warm welcome — and hot coffee — from local folks, even though those families had to rely on rainwater they collected because the storm knocked out power to water pumps.

Water was a precious commodity after the storm, especially for livestock producers who couldn't use their well pumps. Michael Baumgartner with MU's Agricultural Experiment Station loaded a 1,000-gallon water tank into a four-wheel drive truck and headed to the storm area last weekend to tell help farmers water their animals.

Bethmann says that his team was ready to stay longer to help out, but Mizzou needed its equipment and staff back on campus to deal with its own winter woes.

The call for volunteers came through the Missouri Department of Higher Education, and Mizzou was one of just a handful of universities that responded. "It only took a few minutes to put a crew together," says David Potter, manager with Construction Services. "These are a good group of guys. I asked for volunteers and within 15 minutes I had more people than I could send."

Taking a new approach

BIOMECHANICS

Grad student is PI on heart research grant

An MU doctoral student working to learn more about cardiovascular disease recently was awarded a \$25,000 grant from the American Heart Association.

"Cardiovascular disease is one of the leading causes of death in the world," says Mingzhai Sun, a doctoral student in physics. "People have been concerned about cardiovascular disease for a long time, and there are many people working to find answers, but we're looking at this in a different way. Instead of looking at the function of single proteins or molecules, we will focus on the actual mechanical behavior and functions of the cell, which are controlled by the molecular mechanisms."

It's unusual for a graduate

student to receive a grant of this type where he or she is the primary investigator.

"This grant, on one hand, is the recognition of the important contributions Mingzhai has already made to the field and, on the other hand, the expression of American Heart Association's confidence that with the biophysical approach he will be able to decipher further intricacies of cholesterol action that may be difficult to accomplish with the more traditional molecular methods," says Gabor Forgacs, professor of physics and Sun's faculty adviser.

Using an interdisciplinary approach that combines physics and biology, Sun is studying the structure, or biomechanics, of cells. In his AHA-funded research, Sun plans to study dysfunction of endothelial cells, which are specialized cells that line blood vessels in the

circulatory system, from the heart to the smallest capillary.

Endothelial cell dysfunction develops in the early stages of cardiovascular disease and acts as a predictor of the disease. A risk factor of endothelial cell dysfunction is dyslipidemia, which is characterized by an increase in the levels of low and very low density lipoproteins (LDL) and a decrease in the level of high density lipoproteins (HDL). This is often known in lay-terms as high cholesterol. Sun's goal is to determine the different types of lipoproteins that regulate endothelial cell biomechanics.

"Numerous experiments have demonstrated that cell mechanics play an important role in regulating multiple cellular functions, such as cell migration, proliferation and cell differentiation," Sun says. He will collaborate on this study with Irena Levitan at the University of Illinois- Chicago.

Turn off the tube

TV DINNERS

Family meals promote healthier eating

Sitting down to a family meal more often and cutting down on television watching can help keep children from becoming overweight, according to a new study by MU family studies researchers.

After following 8,000 children from kindergarten to third grade, researchers concluded that kids who watched the most TV were at the greatest risk of being or becoming overweight. Children who ate fewer meals with their families also were at risk for becoming overweight.

"Other research has shown that children who eat meals with their families eat more healthy foods than children who don't eat as many meals

with their families," says Sara Gable, associate professor of human development and family studies in the College of Human Environmental Studies. "I suspect there are other benefits of family meal times that protect children from developing some of the habits that could lead to weight problems."

"Children who were never overweight between kindergarten and third grade were watching, as per parent reports, roughly two hours of television per day, or about 14 hours during a typical week," Gable says. "The children who were persistently overweight were watching about 16 hours of television per week."

Members of the persistently overweight groups also lived in neighborhoods that parents perceived as less safe for outdoor play.

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