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SUMMER 2006 | VOL. 80 NO. 2

UMR in a Global Society page 14

IT'S A FLAT, FLAT,

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A PUBLICATION OF THE MSM-UMR ALUMNI ASSOCIATION

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MSM-UMR Alumni Association

Representing over 49,000 alumni worldwide

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(windycreek@tx3.net)

STUDENT REPRESENTATIVES LAUREN HUCHINGSON. Student Council President: (Idny3@umredu) MICHAEL OJO, Student Union Board President (sub@umredu) NATHAN L. MUNDIS, Graduate Student Representative (mmundis@umredu) COMMITTEE CHAIRS GARY W. HINES, '95, Olathe, Kan

(gary_whines@sscgp.com) RONALD W. JAGELS, '86, 5r. Louis (rjagels@msmumtedu) ED MIDDEN III, '69, Spingfield, III. (hemiddemi@worldnet.att.net) CRAIG S. O'DEAR, '79, Kansas City. Mo. (csodear@bryancave.com) DAN O'SULLIVAN. '82, St. Louis, Mo. (dano@brick.net)

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GERALD L. STEVENSON, '59, Highland City, Fla. (esteven545@aol.com) JOHN B. TOOMEY, '49, Alexandria, Va.

JOHN B. TOOMEY, '49. Alexandria. Va. (starrmgmt@aol.com)

STAFF

LINDSAY LOMAX BAGNALL '76, Executive Vice President, MSM-UMR Alumni Association (lindsayb@umr.edu) MARIANNE A. WARD. Assistant Director

(mward@umr.edu) AMY L. MCMILLEN, Administrative Assistant

(mcmillen@umr.edu) RENEE D. STONE, Administrative Assistant

BRANDI WASHBURN, Secretary (brandiw@umr.edu)

MSM-UMR Alumni Association Mission and Goals

MISSION

The association will proactively strive to create an environment — embodying communication with and participation by MSM-UMR alumni and friends — to foster strong loyalty to UMR and growth of the association. The association will increase its financial strength as well as provide aid and support to deserving students, faculty and alumni friends.

GOALS

- Assist university with recruitment and retention.
- · Strengthen alumni section activity.
- Increase financial resources of the association and the university.
- Increase volunteer support to the university and its students.
- Improve communication with and expand the involvement of alumni, especially recent graduates and current students.

The officers and other members of the association's board of directors provide leadership and actual participation to achieve these goals and fulfill this mission. For their efforts to be a success, they need YOUR active participation as well, in whatever alumni activities you choose.

contents SUMMER 2006

Profiles

entrepreneur profile.....4

It's a small world, after all: Tuncay Akbas, CSci'98



For Ralph Flori, teaching is like acting in live theater

from the editor	.3
by the numbers	.5
Say What?	.5

COVER AND FEATURE ILLUSTRATIONS BY ZACHARY PULLEN

Pullen's witty, characteroriented illustrations have been featured in *Sports Illustrated, The New York Times Book Review* and the *Wall Street Journal.* He hails from beneath the big skies of Wyoming and recently relocated back there from New York with his wife Renate, and baby boy, Hudson.



It's a flat, flat, flat, flat WORLD UMR in a Global Society

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UMR appoints new provost

Homecoming 2006 **Rollawood**, Oct. 16-21

Departments

around campus 16-19

17 **Dottye Wolf named Honorary St. Patrick** For the first time in MSM-UMR's 98 years of St. Pat's celebrations, a woman was named Honorary St. Patrick

19 MBA offered at UMR



20 **Sports Profile: Travis Stensby** Stensby enjoys the challenge of being a member of the UMR Miner swim team

search 22-23

- 22 More than a grain of salt Evidence of life on Mars
- 23 NO substitute for winning Kansas City would be better off winning a Super Bowl than hosting one

homecoming 24-29

24 **Homecoming 2006** *Reunion classes of 1956, 1961, 1966, 1971, 1976, 1981, 1986, 1991, 1996, 2001, 2006*

section news 30-35

alumni notes 36-43

- 38 Future Miners
- 40 Weddings
- 41 Email

memorials 44-48

45 Jim Pogue, professor emeritus of English



SEND LETTERS TO: Marianne Ward, Alumni Editor, MSM-UMR Alumni Association, Castleman Hall, 1870 Miner Circle, Rolla MO 65409-0650 Phone: (573) 341-4745 Fax: (573) 341-4706 Email: alumni@umr.edu

NEWS & FEATURES CONTACT: Phone: (573) 341-4328 Fax: (573) 341-6157 Email: news@umt.edu

umrmagazine.umr.edu

The MSM-UMR Alumni Association publishes the UMR Magazine to communicate and reflect the past, current and future interests of the alumni of the Missouri School of Mines and the University of Missouri-Rolla.

UNIVERSITY OF MISSOURI-ROLLA CHANCELLOR JOHN F. CARNEY III

MSM-UMR ALUMNI ASSOCIATION PRESIDENT LARRY HENDREN, '73

EXECUTIVE VICE PRESIDENT LINDSAY LOMAX BAGNALL, '76

UMR Magazine is written, edited and designed by the staff of the UMR. Communications Department and the MSM-UMR Alumni Association.

EDITORS (Art & Production) Rebecca Frisbee. '90 (Alumni) Mananne Ward (News & Features) Mary Helen Stoltz, '95

ASSOCIATE EDITORS Lance Feyh John Kean

Mindy Limback

Mananne Ward

ALUMNI NOTES EDITOR

CONTRIBUTING WRITERS Andrew Careaga Michele Martin

PHOTOGRAPHERS lan Nance Bob Phelan

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From the editor

Mary Helen Stoltz, '95 News & Features Editor



It's been a while since you've heard from me at the Editor's Desk. We three editors – **Marianne Ward** (Alumni), **Rebecca Frisbee**, Engl'90 (Art and Production) and I – usually rotate this column, but when my turn last came around I was on a longer-than-expected maternity leave. You can see a photo of my future Miner on page 38.

When my daughter, Emma, gets to grade school, she will learn how Christopher Columbus refuted claims that the world was flat by sailing to America from Spain. Today, many people again believe that the world is flat. Not literally, of course, but in the sense that *New York Times* journalist Thomas L. Friedman describes in his 2005 book *The World Is Flat*. In the book, Friedman explains how today's technology, like email, teleconferencing and computer networks, allows people from all walks of life and from every corner of the globe to work together in real time. Distance is no longer an issue.

Globalization is challenging everyone – from business and industry to higher education institutions – to change their way of operating. And to survive in this global world, we must cast off our old management models.

By the time Emma is ready for college, there may no longer be any traditional classrooms. Already at UMR, it is possible to get a degree online, without ever stepping foot on campus. This allows students from around the world to take classes at UMR on their own terms.

Will Emma want to grow up to be an engineer? Who knows. Many of today's school children don't. Last year only 5 percent of high school students reported an interest in studying engineering in college.

UMR is working to up those odds. Through Project Lead the Way, UMR faculty members are showing middle school and high school kids how cool engineering can be. Plus, every summer hundreds of kids flock to campus to learn about explosives, rockets, nuclear energy, wind and water power, transportation and computers. This year, UMR is even offering a program just for middle school girls.

Read on to learn of other ways UMR is stepping up to meet the challenges of globalization.

As we went to press with this issue, we learned of the death of **Armin Tucker**, MinE'40. His obituary will appear in the fall issue.

The campus is flat (and getting flatter)

For years, UMR has been known for its flat administrative structure. But that structure will become even flatter on July 1, 2007.

In his first "State of the University" address on April 13, UMR Chancellor **John F. Carney III** announced plans to replace UMR's current "schools/college" organizational structure to a flatter model by July 1, 2007. By that time, UMR's four main academic units – the College of Arts and Sciences, School of Engineering, School of Management and Information Systems, and School of Materials, Energy and Earth Resources – will be no more. Under the new structure, the academic department chairs will report directly to the provost, rather than to a dean.

Watch the winter "state of the campus" issue for more details about the restructuring.

Letter to the editor

I have to very strongly object to the inclusion of the piece on Larry Vardiman in the Spring 2006 UMR Magazine (Alumni Notes). While the magazine recognizes the controversial nature of Mr. Vardiman's beliefs by the article's very title ("A controversial stance on creation"), I cannot see the point of using the UMR Magazine as a way of allowing this sort of non-science to be presented in any fashion that lends credibility to it. Mr. Vardiman has every right to his opinions, and he is free to speak his mind, but for UMR or its publications to provide a forum for these opinions is inappropriate. The subtle way the ideas of so-called "intelligent design" or "scientific creationism" are creeping into legitimate academia is frightening, and I, for one, think someone who believes these things should be simply ignored by any serious institution of higher learning, lest those legitimate institutions be associated with such beliefs. If you want to report the status and career accomplishments of alumni in an objective fashion, it should be done in a manner that does not insult the intelligent work of others. UMR is an accredited technical university, not a college of theology. Articles that even peripherally present ideas of creationism versus scientific explanation for the origin of the universe or the Earth should be matters for another forum. If you expect to retain credibility (and for the sake of those whose resumes include UMR degrees, I hope you do) I would think keeping all parts of the university and its public media free of religious topics of such a controversial nature would be important.

> – Joseph A. Kissane, MS GeoE'92

Editor's note: This is an excerpt of a longer letter. To read the rest, visit umrmagazine.umr.edu.

It's a small world, after all: Tuncay Akbas

In today's global economy, many companies outsource their service departments to countries where labor is cheap to be more cost-effective. "Since the world is getting smaller with all of the latest high-tech developments in communication technology, it is not hard to have a company work for you a thousand miles away to make you more competitive in the world market," says entrepreneur **Tuncay Akbas**, CSci'98.

Akbas is the founder of Sunrise Technology Group (STG), a software outsourcing company based in Istanbul, Turkey. STG provides off-site software engineering services to help its clients reduce their labor

cost. "Our clients don't have to carry the cost of additional employees to complete a project," Akbas explains. "By using STG, most of our clients save 30 to 40 percent on their labor cost. Besides that, we have so many engineers that are specialized in certain subjects to give our clients an advantage on their projects."

Akbas says the biggest challenge he faces is losing the face-to-face interaction with his clients.

"It is very important to understand what the client really wants, because we cannot ask questions every minute of the day since that partner is on the other side of the world," Akbas says.

A native of Istanbul, Akbas founded the company in February 2005 after working a few years in the U.S. The company employs a staff of six in Turkey, plus one associate, **Bora Sar**, ME'01, located in Denver. Sar handles sales and support within the United States.

> Akbas named the company after Sunrise Boulevard in Sacramento, Calif., where he worked before returning to Turkey. "It was my favorite part of the city."

entrepreneur leadership survey

We want your stories for a new series in UMR Magazine and on the web

We are featuring some of our leaders in the magazine and on a new website. To be considered, please complete the form below and fax it to the UMR Office of Public Relations at (573) 341-6157. Or email the information to news@umr.edu, or mail this form to our office at 105-A Campus Support Facility, 1870 Miner Circle, University of Missouri-Rolla, Rolla, MO 65409-0220.

Name:	
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Do you know of a fellow graduate who should be in in our records? If so, please provide their name, title address, phone number and email address here.	

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Say What

"I really believe engineering is going to be the occupation of the 21st century. And it should be. Engineers are the problem solvers."

 Marcus Huggans, EE'96, MS EMgt'97, PhD EMgt'98, director of student diversity programs at UMR, describing his belief that an engineering degree will become the liberal arts degree of the future, in the March 15 issue of the *Peoria Journal Star*.

"You can expect to see future computers do things that only humans did before. You can expect them to cause huge disruptions and make many jobs obsolete. But don't expect the computer to be smarter than you are."

 Donald C. Wunsch II, the Mary Kay Finley Missouri Distinguished Professor of Electrical and Computer Engineering at UMR, writing a Feb. 20 UMR Visions blog entry about what's not next in AI. See visions.umr.edu for more. "But this time of year, for some of us. it's the first cold mug on St. Pat's Saturday morning and the smell of pine oil and a floor awash with spilled beer, and the roar of old friends' laughter. And sometimes the sublimity in a moment echoes over and over and that could be why we keep coming back to St. Pat's year after year."

 Lance Haynes, professor of speech and media studies and advisor to the St. Pat's Celebration Committee, in his speech introducing the 2006 St. Pat's Knighting and Coronation ceremony.

"The economic benefit of bringing a Super Bowl to the city is not anywhere near the cost of building the roof."

 Michael Davis, assistant professor of economics at UMR, on what the Super Bowl or other national events would be worth to a community, in the March 19 issue of *The Kansas City Star*.

by the numbers

7,500

Approximate number of air miles **Kim "Mac" McGinnis**, ME'79, traveled from Beijing to paint Pine Street green for the St. Pat's Parade March 18.

28

Number of years McGinnis has returned to paint Pine Street.

98

Number of years UMR's St. Pat's has been the "Best Ever."

1,984

Number of miles traveled by representatives of Altera Corp. of San Jose, Calif., to attend the UMR Career Fair on Feb. 8.

5,005

UMR enrollment on the first day of spring semester classes. There were 5,224 students at the official four-week count.

1,000

Approximate number of pre-college students registered for at least one summer camp at UMR as of June 2.

UMR leads the way through pre-college and summer programs that introduce students to the manufactured world of engineering

UMA

UMP

IT'S A FLAT, FLAT, FLAT, FLAT

by Andrew Careaga (acareaga@umr.edu) illustrations by Zachary Pullen

It was "a time of tremendous excitement" for engineers when Harry J. "Hank" Sauer Jr. entered graduate school at MSM-UMR 50 years ago. It had been nine years since Chuck Yeager had broken the sound barrier, and the U.S. seemed poised for even greater breakthroughs in flight. Fueled by the post-World War II economy and federal funding for research, MSM-UMR's graduate programs were also poised for takeoff.

But a year later – as Sauer, ME'56, MS ME'58, joined the mechanical engineering faculty while continuing his graduate studies part time – something happened that further accelerated the research activities at MSM-UMR and other universities throughout the nation. That something was the Soviet Union's launch of the world's first satellite, a basketball-sized sphere known as *Sputnik I*.

That event on Oct. 4, 1957, caught the United States space program flat-footed – and propelled the U.S. into a space race with the U.S.S.R.

"It was a tremendous shock to find out how far behind we thought we were," Sauer recalls. At that time, it was feared that the Soviets' ability to launch satellites also meant they could hurl ballistic missiles at the United States. "It added impetus and a note of urgency to the developmental type of work and research we were already doing," Sauer adds. "When *Sputnik* came along, we realized we'd better do even more."

A new challenge

Today, 49 years after *Sputnik*, many observers see the United States in a similar situation. Only this time, there is no single rival, but many. The threat to our hegemony is not military, but economic. And some question whether the nation can muster the same resolve – or resources – as it did to face down the Soviet threat to our technological supremacy.

The culprit? Globalization.

That single word has become a foreboding catch phrase for American business leaders, educators and government officials. It refers to the integration of markets and technologies on a global scale, coupled with the worldwide spread of information via the Internet that is leveling the economic playing field. Globalization also opens a global talent pool to companies of all sizes. In an interconnected, global marketplace, a variety of work – from aircraft design to tax preparation – can be done anywhere, at any time. As a result, many jobs formerly held by Americans have been "offshored" to nations where labor costs are cheaper.

This issue is addressed in the introduction to *Rising Above the Gathering Storm*, a recent report on globalization commissioned by Congress and written by a committee of leading U.S. engineers,

(continued on the next page)

America's 'quiet crisis'

William J. Daughton, chair of engineering management and systems engineering, reviewed Thomas Friedman's book *The World Is Flat: A Brief History of the 21st Century* for the American Society for Engineering Management's Engineering Management Journal. Friedman's book, Daughton writes in his December 2005 review, "brings into focus trends and events that most readers would recognize but perhaps have not thought about in the larger context of flattening the world."

Some excerpts:

Of particular interest to readers involved in engineering and science education in the U.S. should be the section entitled *The Quiet Crisis*. The premise is that the erosion of the scientific and engineering base in the U.S. is taking us on a steady path toward losing our preeminent position as innovators of new products, services, and companies. It is "quiet" both because it is not a single, spectacular event that grabs headlines and because the erosion has not yet reached a critical point. Perhaps most disturbing is the set of examples describing what is happening in the rest of the world relative to the focus on engineering and science, My favorite quote in the book comes from this section and is one describing the focus of young people in China. Friedman says "In China today, Britney Spears is Britney Spears. In America today, Britney Spears is Britney Spears – and that is our problem." Ouch!

... If there are any points to quibble with in this book it would be the tendency to rehash examples multiple times and the occasional lapse into political rhetoric. Many of the supporting examples are well known and somewhat over used. ... A few sections were overly preachy in terms of political solutions, and in some ways detracted from the valuable message of the book. Despite these shortcomings, it is a worthwhile read, scientists and educators. "Thanks to globalization," the report notes, "driven by modern communications and other advances, workers in virtually every sector must now face competitors who live just a mouse-click away in Ireland, Finland, China, India, or dozens of other nations whose economies are growing."

While globalization holds promise for strengthening the economies of developing nations, it also threatens to topple businesses, social institutions and perhaps entire economic systems that aren't prepared to adapt to new ways of thinking. To the *Gathering Storm* authors, globalization is more of a wake-up call to the United States than *Sputnik* was. "We fear the abruptness with which a lead in science and technology can be lost – and the difficulty of recovering a lead once lost, if indeed it can be regained at all."

That's why major corporations like General Motors have shifted gears "to globalize our products, to keep a presence in different countries, increase market share and maintain leadership," says **Adrian Alarcon**, a project manager for a General Motors foundry plant in Mexico. Alarcon is one of several GM students from around the world enrolled in a UMR project management course offered online. "Globalization," he adds, "has become an unstoppable force in our world."

A flatter world

Futurists and policy wonks have been talking about globalization for decades. But it took a *New York Times* journalist, Thomas L. Friedman, to popularize the idea and bring it to the forefront of public consciousness. In his 2005 book *The World Is Flat*, Friedman, drawing on real-world example after unsettling example, breathlessly describes this brave new world. "Clearly," he writes, "it is now possible for more people than ever to collaborate and compete in real time with more other people on more different kinds of work from more different corners of the planet and on a more equal footing than at any previous time in the history of the world – using computers, email, networks, teleconferencing, and dynamic new software." Globalization also challenges businesses, governments and social institutions that have become calcified by old business and management models. Outsourcing and downsizing are but two of its symptoms. The bigger threat looming on the horizon, say Friedman and other observers, is the staggering growth of engineering, science, math and technology disciplines in the emerging economies of China, India and other nations.

As these nations invest more in engineering and science, the United States loses ground on many fronts – from elementary and secondary education to colleges and universities to federally sponsored research.

Don't know much about...

When it comes to math and science, our high school students test out at the bottom of the international class. In 2003, America's 15-year-olds ranked 24th out of 28 nations in math proficiency, and 24th out of 40 in science. Apparently, that doesn't bother most students. A more recent study – this one commissioned by defense contractor Raytheon – found that 84 percent of eighth-graders surveyed would rather clean their room, eat their vegetables or go to the dentist than do their math homework.

It's little surprise, then, that only about 5 percent of high school students show an interest in studying engineering in college. Last year's ACT student interest data indicated that fewer than 800 of Missouri's 42,000 college-bound high school seniors – just 2.3 percent – expressed an interest in studying engineering and were prepared for trigonometry.

"We are very concerned about continued declines of prepared students interested in pursuing the engineering and natural science careers," says **Jay Goff**, UMR's dean of enrollment management. "Industry has many high-paying jobs for engineering and science graduates, but the student pipeline has become so narrow that many organizations now worry about the future impact the smaller technological workforce will have on the nation's economy and defense programs."

Then there's the growing research gap. Federal funding for non-military research has been flat since the early 1990s, with the exception of the National Institutes of Health. Other nations, meanwhile, are investing more into their national research programs. The United States ranked seventh in the world for research spending as a percentage of gross domestic product in 2003, according to statistics cited in a recent *Time* article on globalization. This has a ripple effect on graduate programs, which end up with less federal funding for graduate fellowships. Even the number of international students coming to the United States for advanced degrees is on the decline, due in part to tougher visa regulations put in place after the 9/11 terrorist attacks.

(continued on the next page)



84 percent

of eighth-graders surveyed would rather clean their room, eat their vegetables or go to the dentist than do their math homework



"There's a middle ground of students who got off the math train too early."

- Ralph E. Flori Jr., assistant dean for pre-college and undergraduate programs in the School of Engineering and statewide director of Project Lead the Way, a national initiative to generate more interest in engineering at all levels of elementary and secondary education

Leading the way

So, how are universities in the United States responding? At UMR, the approach has been two-pronged. One effort addresses the so-called "pipeline" issue to generate more interest in engineering, science and math among precollege students. The other involves globalizing how we teach in order to prepare our students for the world that awaits them after graduation.

For years, UMR has offered summer programs to get high school juniors and seniors interested in studying engineering at UMR. But studies show that many potential engineers lose interest in the basics – math and science – long before they get to high school. "There's a middle ground of students who got off the math train too early," says **Ralph E. Flori Jr.**, PetE'79, MS PetE'81, PhD PetE'87, assistant dean for pre-college and undergraduate programs in the School of Engineering. As the statewide director of Project Lead the Way, a national initiative to generate more interest in engineering at all levels of elementary and secondary education, Flori's mission is to reverse that trend.

Flori describes Project Lead the Way as a "pre-engineering curriculum" that begins in middle school and continues through high school. "We're reaching students who never even thought about engineering, or even knew what engineering is," Flori says. The project aims to inspire budding technologists by introducing them to the "manufactured world" of engineering – the world of cell phones, iPods, video games and fast cars – and by incorporating engineering concepts into traditional science coursework.

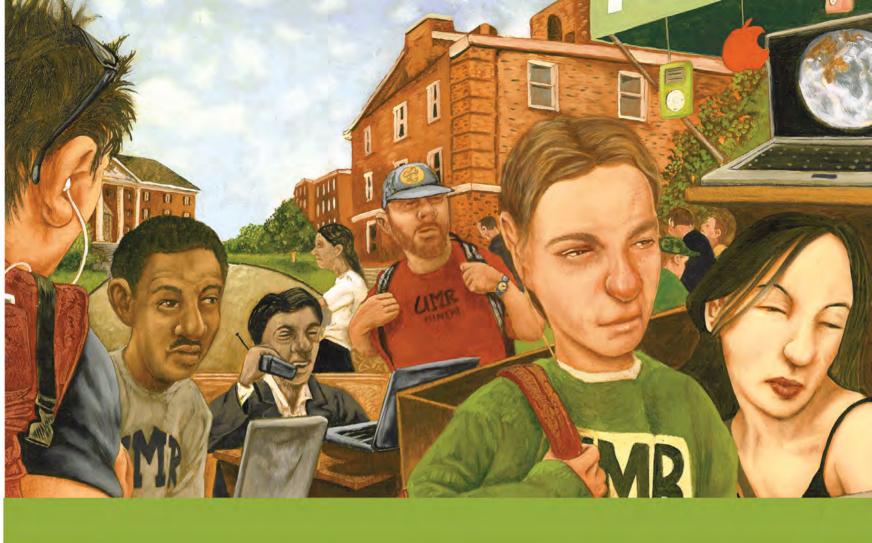
"Traditional high school science focuses on the natural world, which is good," Flori says. "But Project Lead the Way focuses on the manufactured world, the invented world, the designed world. So all of a sudden, students are appreciating the value of manufactured things."

Now in its fourth year in Missouri, the program is in 33 of Missouri's 500-plus school districts, with 15 or more districts coming on board this year and another 15 or more planned for 2007. Flori hopes to see Project Lead the Way courses available to 80 percent of Missouri high school students by 2012.

UMR also offers programs that bring pre-college students to campus in hopes of piquing their interest in engineering and science. Aerospace Camp, a popular summer event since 1999, attracts 10- to 12-year-olds from around Missouri for two, three-day sessions in which they build and launch their own rockets, learn to use GPS devices and link up with NASA's Johnson Space Center. Other summer programs are geared to specific disciplines, such as transportation, nuclear energy, wind and water power, computers and even explosives. This year, UMR will offer a program just for middle school girls, called "It's a Girl Thing."

Another program, Expanding Your Horizons, a one-day session for seventh- and eighth-grade girls, is also popular. Last November's program attracted nearly 600 girls, who worked on 22 different hands-on projects, from isolating DNA to making glass and experimenting with electricity and magnets.

It's too early to say whether these efforts will inspire students to prefer math over their vegetables. But even the small percentage of high school graduates who decide to study engineering in college face challenges previous generations never imagined.



Preparing for the future

"I tell our (American) students that we have to be nice to our Chinese and Indian students because we're going to be working for them someday," says **Duke Dow**, a lecturer in engineering management and systems engineering. "The Chinese and Indian students just smile, and the American students give me a dirty look. But in the back of their minds they know I'm only partially kidding."

American students may not be working for internationals in Dow's classes, but they're learning to work alongside them. In one project management course he teaches, some 30 graduate students – a mix of on-campus students and distance learners, two-thirds of them from General Motors – work in virtual teams of three to manage real-world projects. The teams are reviewing the design of a foundry for a GM plant outside Mexico City, planning a robotic powertrain-fastening operation in Australia and overseeing the construction schedule of Toomey Hall, UMR's mechanical and aerospace building. Because the students on each team are spread across the globe, "they have to figure out how to set up times to meet to get their projects done," Dow says.

Learning to work in such virtual teams is an important skill for UMR students to learn as they prepare to enter the global work force, Dow says. Gaining a broader international perspective is also valuable, he adds. "In the global market, U.S. managers are very limited because they only speak English, whereas in the European and Asian companies, some managers speak three or four languages."

Dow would like to see UMR offer more exchange programs for students and faculty in order to broaden their international understanding.

This is a concern shared by **Keith D. Strassner**, Chem '79, director of technology commercialization and economic development at UMR. Prior to joining UMR last year, Strassner was director of global alliances for Brewer Science, a Rolla-based manufacturer of coatings and other products for microchips and related products. His job frequently took him to Asia and Europe. Now, he teaches the Global Entrepreneurship class in UMR's Residential College. On his first day in the classroom last fall, he asked the class of 65 students how many of them had been outside the United States. "Just a handful of hands went up, and all of those had been to France or England on a high school trip," he says. "None of them had been to Asia."

Like Dow, Strassner would like to see UMR offer more exchange programs with other universities. "If I were a student today," he says, "I would push to go overseas."

(continued on the next page)

From Beijing to Pine Street



Kim "Mac" McGinnis, ME'79, hasn't missed a single St. Pat's celebration since graduation – even though, for the past five years, he's had to travel halfway around the world to get back to Rolla.

As the international project manager for Tuthill Suspension Technologies, a spinoff of Springfield, Mo.-based Tuthill Transport Technologies, McGinnis splits his time between Beijing and Springfield. For the past half-decade, McGinnis has made the 7,500-mile flight from China back to the states in order to slosh a mop down Pine Street on parade day.

Back in Beijing. McGinnis directs the development of suspension systems for Chinese auto manufacturers. One of the biggest challenges facing Tuthill in this huge market is finding new customers. "Identifying and moving into new markets is a big thing," he says. "You get somebody like Caterpillar or Cummings Diesel – everybody knows those companies. But we're not as well known."

China's automotive industry also lacks the standardization of the United States. "Every design is a custom," he says. Moreover, the Chinese expect a fast turnaround. "Working with GM or Ford, we'll spend around two years designing and testing a product," he says. "These guys want to throw together a bus in two months."

And how does McGinnis handle that stress? "You don't get a lot of sleep."

That's something the former St. Pat's Board rep knows well.

Lessons from the real world

For some UMR graduates, globalization is just an office or cubicle away. As a senior associate engineer in metallurgical research for heavy-equipment manufacturer Caterpillar, **Natalie Vanderspiegel**, CerE'02, MS CerE'04, is rubbing elbows with co-workers from a variety of cultures. Working on R&D projects "that are 10 to 15 years out of production," Vanderspiegel credits her communications minor from UMR with helping her navigate the cultural divide she encounters in her daily work.

Another Caterpillar employee, **Justin W. McMenamy**, ME'03, MS ME'04, navigates a complex maze of international regulations in his work on global engine development. "Caterpillar wants to sell one product that is compliant globally," says McMenamy. But the multitude of markets and environmental regulations make it tough to build one-size-fits-all equipment. "With different governments, the rules of business are different," he says. In North America, for example, emissions is a chief concern. But in Africa, customers are "more concerned with fuel consumption and durability."

Other multinational companies also face new challenges due to international forces. For the GM employees in Dow's project management classes, the challenges are not just academic. Alarcon, the 22-year GM employee from the Mexico foundry, says the course is helping him to better

Globalization's impact on the world offers opportunities for schools like UMR. "We could become a connection for our alumni to the flat world."

 Bob Mitchell, former dean of UMR's School of Engineering (1994-2006) understand how global forces affect his work. "We compete with companies – not just other GM foundries – to get a contract to supply parts," he says, "so if we don't supply parts with good quality, competitive cost and on time, someone else will."

A connection to the flat world

Globalization's impact on the world offers opportunities for schools like UMR. "We could become a connection for our alumni to the flat world," says **Bob Mitchell**, former dean of UMR's School of Engineering. By enrolling in continuing education courses, offered

online or via satellite, alumni "can stay connected with us and can help us stay connected with the needs of the business world."

That's what Dow is doing with his project management course. Designed specifically to meet GM's needs for a flexible, real-world "international flavor," the course not only meets GM's needs, but gives other students a leg up on the global competition as well.

Globalization may be the buzzword of our times, but it is nothing new, says Flori. "UMR was founded as a land-grand university," he says, "but really our first graduates went around the world. … In some ways this isn't a new thing. We just need to look at new ways to meet the needs of society."



The world is flat. Or is it fat?

After Columbus and before globalization, we realized the idea of a flat world was a myth. We've known for a long time that the world was really quite round. But, recently, we learned the world is being flattened by global competition. Or is it?

Thomas Friedman is largely responsible for confusing things with his best-selling book about global competition, *The World is Flat.* But one of Friedman's colleagues at *The New York Times*, David Brooks, isn't as concerned about this brave new world of increased competition. Brooks wrote a column last February in an attempt to debunk some of the myths associated with globalism. "We should be more worried about the countries that can't support themselves than people in countries with rising wealth like India and China," Brooks concluded.

With that in mind, we took a closer look at some popular notions associated with globalism in search of myths.

Myth: Quantity equals quality

In the United States, 72,893 engineering students earned bachelor's degrees in engineering in 2005. India graduated between 200,000 and 300,000 engineers last year, but nearly half of those graduates only earned three-year diplomas. China, with a population four times greater than the U.S., graduated approximately 500,000 engineers last year, but the list includes auto mechanics and other technical workers, according to a Duke University study.

Using India's standards, for example, the U.S. could have reported almost twice as many engineering graduates in 2005.

Mark Clayton of *The Christian Science Monitor* points out that Americans were also worried about relative numbers during the Cold War. The Soviet Union had more nuclear missiles, but the U.S. had a superior stockpile when quality and precision were taken into account.

Myth: Outsourcing is out of control

A McKinsey Global Institute study last summer found that only 25 percent of Indian engineers were ready to compete for outsourced work. McKinsey estimates that fewer than 10 percent of professionals in China have what it takes to work for a multinational company.

David Nicklaus of the *St. Louis Post-Dispatch* reports that global outsourcing actually contributed information technology jobs to the U.S. economy, about 250,000 of them, in 2005. Daniel Drezner, an assistant professor of political science at the University of Chicago, told Nicklaus that outsourcing, like corporate downsizing and Japanese automation in past decades, has become a comprehensive scapegoat for other economic problems.

Myth: Our children are falling way behind

Singapore schoolchildren are No. 1 in global math and science rankings. But Singapore's minister of education, Tharman Shanmugaratnam, recently told *Newsweek*'s Fareed Zakaria that the rankings aren't necessarily indicative of future performance. "Yours is a talent meritocracy," Shanmugaratnam said. "Ours is an exam meritocracy."

That talent belongs increasingly to American girls as well as boys. So maybe the widely held notion that boys outperform girls in math and science is really a myth, too? Not exactly. But girls have steadily closed the gap in the U.S, and, by the mid-1990s, more girls were already taking high school biology and chemistry classes than boys.

UMR in a Global Society



What challenges does globalization pose to higher education, and how should campuses like UMR respond to these challenges?



Pictured above from left to right: Wayne Huebner, Antonio Nanni, Prasenjit Shil, Joan Woodard, Ralph Flori and Bipin Doshi.

photos by Bob Phelan/Photomasters

In April, UMR convened a panel of alumni and faculty to discuss a variety of issues related to globalization. The forum – "UMR in a Global Society" – was held on Friday, April 22, as part of the annual Order of Golden Shillelagh (donor society) Weekend on campus. Excerpts from the discussion appear on the following page. A full transcript is available online at umrmagazine.umr.edu.

Panelists:

- Bipin Doshi, ChE'62, MS ChE'63, president and CEO of Schafer Gear Works of South Bend, Ind.
- **Ralph E. Flori**, PetE'79, MS PetE'81, PhD PetE'87, an associate professor of interdisciplinary engineering at UMR and Missouri director of Project Lead the Way
- Antonio Nanni, the Vernon and Maralee Jones Missouri Professor of Civil Engineering at UMR
- **Prasenjit Shil**, MS EMgt'04, a Ph.D. candidate in engineering management and former president of the UMR Council of Graduate Students
- Joan Woodard, Math'73, executive vice president and deputy laboratories director for nuclear weapons at Sandia National Laboratories.

Moderator:

• Wayne Huebner, CerE'82, PhD CerE'87, vice provost for research and sponsored programs at UMR.



From your perspective, what is the single greatest challenge that globalization presents to the United States, especially in higher education?

Bipin Doshi: We can do a lot of things in higher education, but the foundation – the social foundation – needs to be boosted. If learning math and science were the right thing to do ... and the coveted thing to do [in elementary and secondary education], then they [students] would do it. It begins in the society and it begins at home.

Growing up in India. I knew that higher education was the key to success. Instilling that into a young mind can have a huge impact.

Prasenjit Shil : I think one of the challenges we face is how to generalize our education to the general public – to show them the impact of the research-dominant institution of higher education and how it affects our lives on a daily basis, so that they can grow an appreciation for the technology or higher education.

Ralph Flori: I think the absolute most critical area is innovation. The countries that are successful at innovating new technologies – developing new materials – are the countries that are going to be successful. Businesses that are going to be successful are businesses that create the new ideas, the new innovations. ... We need to cultivate a new generation who can innovate. It begins in the schools. We in higher education are doing a good job of that ... but the challenge is to do better, run faster, jump higher and help our students to understand that they aren't competing against that student sleeping next to them in the classroom, but against the students in India, China, Russia and Korea or someone else in the world who is studying really, really hard. I want my students to study really, really hard.

Joan Woodard: It seems we have in many areas a sense that mistakes are not essential. We see that in the media in many instances. So when you are talking about technology you are talking about innovation. You need to really be pushing the boundaries and taking technical risks. So I think that the challenges of universities today are to teach their students how to mentor and how to take technical risks and work with experiments and discoveries.



Our panel has read the National Academy of Engineering and Sciences' report, *Rising Above the Gathering Storm.* This is a very timely report with respect to stemming the tide. ... I am interested in the panel's comments on those recommendations made in that report.

Woodard: I think the report did a pretty good job of capturing some actionable recommendations. I think that it also did not highlight some barriers of some of these areas, which still need to be addressed. And an example is in education in K-12. Today a master's-educated computer scientist going to teach in middle school or high school level earns the same salary as does ... an English teacher. Yet the market comparison in computer science is much higher, so we have a problem.

Antonio Nanni: It appears to me that in this case the panel and the one that wrote the document are refocusing on the competitive aspects of our civilization. The point I am trying to make is the following: Is for us to be more competitive the only reason why we have to do better? Is this the only reason we want to be a global power? To be a global nation we have to do better. ... I think if you want to motivate the young generation, you have to offer them more than just to say that we have to be the best.

UMR appoints new provost

Warren K. (Kent) Wray, professor of civil engineering and former provost at Michigan Technological University (MTU) in Houghton, Mich.,



will become provost and executive vice chancellor for academic affairs at UMR effective Aug. 1.

Wray will replace **Y.T. Shah**, who has served as UMR's provost since July 2001.

"I have always known about UMR's reputation as an outstanding university and I look forward to being associated with the faculty, staff and students," says Wray.

Warren K. Wray

Wray served as provost at MTU from September 2000 through August 2005. During that time, he

directed an enrollment plan that resulted in a 20 percent increase in graduate enrollment and increases in first-year applications, admits and enrollment. Wray also reversed a downward trend in student retention at MTU. That figure currently stands at 82 percent and continues to rise. He also completed MTU's new strategic plan, which proved instrumental in helping the campus move up in the *U.S. News & World Report* rankings, and broadened the university's curriculum by adding several new degree programs.

Wray also served as senior vice president for academic and student affairs during his five-year tenure as provost at MTU.

Wray received his bachelor's degree in physics with a history minor from Washburn University in Topeka, Kan., in 1967, and a bachelor's degree in civil engineering from Kansas State University in 1968. He earned a master's degree in civil engineering from the Air Force Institute of Technology in 1974 and a Ph.D. in civil engineering from Texas A&M University in 1978.

WIRED for progress

UMR is one of the nation's 25 "most connected" campuses, according to a new report from *The Princeton Review* and Forbes.com.

Schools were judged on the basis of the breadth of their computer science curriculum, the sophistication of campus technology, wireless Internet access on campus, support for handheld computing, and other related criteria.

UMR's innovations in incorporating information technology into the academic and social spheres of campus include providing online degree programs through the School of Extended Learning, a network server devoted to multi-user gaming, wireless access throughout campus, and a digital music download service. As a member of the Internet2 consortium of universities, UMR also has broader Internet bandwidth than many universities, allowing for faster access to online resources.

The schools listed in the report are not ranked numerically. A complete listing of the schools is online at www.forbes.com/connected.

Getting more bang for higher ed bucks

UMR is ranked No. 63 on a list of the top 100 values in public higher education, according to rankings released by *Kiplinger's Personal Finance*.

More than 500 public four-year colleges and universities in the United States were ranked according to academic quality, cost and financial aid. More information about *Kiplinger's* Top 100 rankings is available online at www.kiplinger.com/personalfinance/ tools/colleges/.

Graduate engineering programs nationally ranked

UMR is ranked 68th among the nation's best graduate engineering schools by U.S. News and World Report. The magazine's annual "Best Graduate Schools" report was released on April 3. The rankings also list five UMR programs as among the best in the country in the U.S. News guidebook's "premium" online edition at www.usnews.com. U.S. News's online rankings include five UMR graduate engineering programs:

- Civil engineering, ranked 44th
- Electrical engineering, ranked 51st
- Materials engineering, ranked 47th
- Mechanical engineering, ranked 50th
- Nuclear engineering, ranked 15th



Dottye Wolf named Honorary St. Patrick

For the first time in MSM-UMR's 98 years of St. Pat's celebrations, a woman was named Honorary St. Patrick.

Dottye Wolf, the 2006 Honorary St. Patrick, has a long history of service to UMR, the St. Pat's Celebration Committee and the community. Wife of the late Robert Wolf, ME'51, MS ME'52, professor emeritus of metallurgical engineering at UMR, Wolf worked in the admissions office at UMR from 1968-1982. She served as the

St. Pat's social advisor from 1979-1992 and was made an Honorary Knight in 1983. She remains active in the Honorary Knights Association. Both of Wolf's sons graduated from UMR: David Winter, CE'78, who was a student knight in 1979, and Ben Winter, MetE'80.

"I like the tradition of it all," Wolf told the Rolla Daily News in a March 2006 article. "The tradition of the St. Pat's Day Celebration is a great thing for UMR."

Wolf told the Daily News that what she enjoys most about the celebration is seeing friends from years back.

"There are a lot of people who come back to Rolla once a year - just for the St. Pat's Celebration and the parade and it's always good to see those people," she said. "It's something that really brings us together."



Gerald Meyr



Robert Bay

Roger Berkbuegler

Debra Robinson

Jovce Thomas

St. Pat inducts nine Honorary Knights

Nine Honorary Knights of St. Patrick were inducted during coronation ceremonies on March 17. This year's Honorary Knights are: Maj. Gen. Robert Bay, CE'49, a retired military man and professional engineer; John Beger, a Rolla attorney; Roger Berkbuegler, principal of Rolla High School; Elvan Akin-Bohner, assistant professor of mathematics and statistics at UMR; Martin Bohner, associate professor of mathematics and statistics at UMR; Gerald Meyr, EMgt'76, a vice president with Weyerhaeuser Co.; Donald Myers, ME'61. MS ME'64, professor of engineering management at UMR; Debra Robinson, vice chancellor for student affairs at UMR; and Joyce Thomas, Engl'78, a Rolla real-estate agent.

A CENTURY OF THE BEST EVER

Mark your calendar and make plans now to attend the 100th St. Pat's Celebration, March 14-15, 2008.

Former history prof passes the mic

Wayne Bledsoe, professor emeritus of history and political science, has been the bluegrass host on UMR's public radio station, KUMR, for more



Wayne Bledsoe and Bob Fossey

than 25 years. But he is taking a hiatus from the station while he is a candidate for representative for the 149th District in the Missouri General Assembly. Federal Communications Commission rules regarding the "political activity" of radio personalities require the leave, at least until after the November election.

Bob Fossey, a research specialist for more than

25 years in the Rock Mechanics and Explosive Research Center at UMR, will serve as interim host of the three bluegrass shows.

You can listen to Fossey's show, as well as KUMR's other programming, online at www.kumr.org.

TechnoFiles now available as podcast

TechnoFiles, KUMR's radio research program hosted by **Wayne Huebner**,



CerE'82, PhD CerE'87, is now available as a podcast. The monthly show features UMR faculty and students who are leading the

way in improving everything from our access to space to our nation's security.

You can subscribe to the free TechnoFiles podcast using any podcast software, including iTunes and iPodder, which is free and works with Windows XP, Mac OSX and Linux. Just supply the following URL to your podcast receiver: www.umr.edu/podcast/sample.rss

Several web-based options are available as well, including through Yahoo!, where you can browse or search the episode archive and listen online.

Briefly

Pringle receives award

Allan Pringle, Curators' Teaching Professor of physics, is the recipient of a 2006 Governor's Award for Excellence in Teaching.

Gov. Matt Blunt and members of the Missouri Coordinating Board for Higher Education recognized Pringle and 14 other recipients during the Governor's Conference on Higher Education held April 6 in Columbia, Mo.

The awards are based on effective teaching, innovative course design and delivery, effective advising, service to the university community, commitment to high standards of excellence, and success in nurturing student achievement.

KD kudos for Lutz

Paula M. Lutz, Chem'76, dean of the College of Arts and Sciences, was recently named a recipient of a 2005 Order of the Pearl award from Kappa Delta sorority. The Order of the Pearl recognizes Kappa Delta alumnae for outstanding contributions to society at the national, state or local level outside of their service to Kappa Delta. Lutz was nominated for the award by the Epsilon Alpha chapter at UMR.

Top advisors recognized

The office of undergraduate and graduate studies presented six faculty and staff with 2005-2006 Outstanding Academic Advisor Awards during an April 26 luncheon.

The winners are:

- Diana Ahmad, assistant professor of history
- William Canu, assistant professor of psychology
- Krista Chambers, senior secretary in engineering management and systems engineering
- Douglas Ludlow, professor of chemical engineering

- F. Scott Miller, PhD MetE'99, assistant professor of materials science and engineering
- David Richardson, CE'71, MS CE'73, PhD CE'84, associate professor of civil engineering.

Students in demand

UMR students were in demand like never before at the Spring Career Fair. One hundred and fifty employers and 400 recruiters came to scout out talent from approximately 2,100 students and alumni who attended the event.

The number of employers has increased since the spring 2005 career fair, which attracted 109 employers this year. A total of 21 states were represented, including 85 employers from Missouri.

Interested in a UMR Graduate Certificate or a Degree from a Distance?

For more information email dce@umr.edu call (573) 341-6576 toll-free (866) 867-4723

It isn't too late to get started for Fall Semester 2006.

New Graduate Certificate Program: Psychology of Leadership

This particular certificate program addresses issues of increasing significance in today's high-tech world through courses such as Organizational Psychology, Social Informatics and Leadership in Technology-Based Organizations. This program is open to anyone holding a bachelor's, master's, or Ph.D. degree who meets the required prerequisites for the courses offered. More information is available online at dce.umr.edu.



Would you like an exclusive collector's item to remember MSM-UMR by?

For their senior project, students from the School of Management and Information Systems have created the Rollapoly game. Rollapoly is a Monopoly-inspired board game that features landmarks and businesses from the Rolla community.



Get into the game: Rollapo

Learn more about the project at rollapoly.com/ or by contacting sales@rollapoly.com. To order your copy, contact the UMR Bookstore at (573) 341-4705. Copies are \$35 each plus shipping, handling and sales tax. All profits will go to a local charity.

MBA at UMR

The University of Missouri Board of Curators voted Jan. 26 to approve the creation of a master of business administration degree program at UMR. Pending further approval by Missouri's Coordinating Board for Higher Education, the first students to pursue MBA degrees at UMR will begin classes in January 2007.

The program will initially be limited to 35 students and will be administered through the School of Management and Information Systems. It will consist of 36 hours of graduate work, which can be completed in one calendar year. **Sports profile**

Travis Stensb

by Michele Martin (mlm5ff@umr.edu)

Travis Stensby was swimming for the University of Minnesota when he discovered a blood clot in his shoulder three years ago. That medical condition forced him to quit the team, and he thought his collegiate swimming career might be over.

"I wasn't sure how I would recover and I wasn't sure if I would be able to swim at that high of a level," says Stensby. "My doctors weren't sure how I would recover either."

By the time he was medically cleared, Stensby, of Bellevue, Neb., decided to get back into competitive swimming. He chose UMR because he says it was the best place for him to swim in Division II and continue to pursue a degree in engineering. Stensby transferred to UMR at the end of his sophomore year. He's majoring in mechanical engineering, with a manufacturing focus. "I'm excited about the fact that I still get to swim after having my injury," he says.

Stensby was 7 when he took his first swimming lessons. Shortly thereafter, his mother convinced him to join a swim team. Fourteen years later, Stensby says swimming appeals to him because, unlike team sports, his performance is judged solely on his own effort.

But that doesn't mean Stensby isn't a team player. He enjoys his role on the Miners swim team.

"I bring a lot of knowledge of the sport and experience of participating at a high level," says Stensby. "With my background, I think I am able to help younger swimmers develop and bring the practices to a higher level. Having the team to train with makes me a better swimmer because they push me in practice, making me train harder. I like being a part of a team and the challenge to make myself a better swimmer."

Stensby has competed in Nationals twice, placing in the top 16 in five individual events and three relays, and finishing in the top eight in three individual events and in two relays. His best events are the 100- and 200-yard in both butterfly and backstroke, though he is most consistent in the 100-yard butterfly.

"I feel that I am lucky to be swimming again so I try to just have fun while I am swimming and try to put my best effort forth," says Stensby. The effort and dedication have paid off, as Stensby has achieved four separate school records and placed fifth in Nationals.

Stensby also likes to play golf and watches almost every sport, especially football, basketball and baseball. In his free time he likes to travel or participate in outdoor activities such as surfing, snowboarding and horseback riding.

Now a senior, Stensby has been a UMR swimmer for two seasons. He enjoys UMR's casual, small-school atmosphere, in contrast to the Big 10 schools like Minnesota. "I enjoy the small classes with the ability to get to know your teachers," he says. Stensby also serves as president of the UMR chapter of the Fellowship of Christian Athletes, all while maintaining a 3.2 GPA.

Smith leaps to the top; others earn honors

Tyrone Smith, who earned All-America honors with his fourth-place finish in the long jump at the NCAA Division II Championships in March, was selected as the top field athlete of the year for the Great Lakes region by the U.S. Track and Field and Cross Country Coaches Association. The region includes schools from UMR's GLVC league and the Great Lakes Intercollegiate Athletic Conference, which primarily consists of Michigan schools.

Jamel Sims (60-meter hurdles) and Lucas Handley (pole vault) also qualified for the national meet, but neither made the finals.

While at the GLVC Indoor Track Championships, **Rodrick McDonald** set a facility record with 22.01 seconds in the 200-meters and **Charlie Hawkins** won in the mile with a time of 4:21.08. The 4x200-meter relay team of McDonald, **Ryan Vessell**, **Charles Melton** and Sims took first as did the distance medley team of **Chris Murray**. **Matt Bartels**, **Matt Osmond** and **Mike Serniak**. In addition, Rolla native **Ian Packard** tied a long-standing UMR school record in the 400-meters with a time of 49.84 seconds, a mark established in 1981 by **Rick Lux**, ChE'81.

Swimmers claim another Top 10 finish at NCAA Division II Championships

The UMR swimming team finished seventh at the NCAA Division II Championships in March. It is the 10th time in the last 11 seasons that UMR has finished among the top 10 at the national meet.

All 11 members of the team that participated won All-America honors. **Matt Hug**, finished among the top eight in all three distance freestyle races and added another award as part of the 800-yard freestyle relay team. **Travis Stensby** finished among the top eight twice and as part of the next eight in a third, and picked up two more awards in the relays.

Hug was joined by **Mark Chamberlain**, **Bernard Chen** and **Andy Shelley** on the relay team that came in seventh place in a time of 6:49.60.

The team that included **Bill Gaul**, **Chris Scheuber** and **Andy Lozier** captured a sixthplace finish in the 200-medley relay, while the 400-medley team with **Matt Hammond**, **Brian Howell** and Chamberlain secured an 11th-place showing.

Hammond was the only other Miner to finish among the top eight on an individual basis when he tied for sixth in the 200-breaststroke in a time of 2:07.03.

Lady Miners reach GLVC semifinal round

The Lady Miner basketball team closed out their best season in a decade by reaching the semifinal round of the GLVC tournament in Evansville, Ind., in March. UMR, which finished with a 17-11 record, upended Lewis University in the opening round 68-55 before losing a 71-56 decision to third-ranked Drury. The Lady Miners led Drury by as many as 12 points in the first half, but had to play much of the game without point guard **Jaime Forsberg**, who was unable to return after suffering an ankle injury in the first half.

Two members of the team earned honorable mention all-conference honors from the GLVC. **Nicole Dierking**, the team's scoring leader with an average of 12.6 points per game (including a 21-point second half in the win over Lewis), was named along with rebounding leader **Deosha Agnew**, who scored nearly 12 points a game and ranked third in the GLVC on the boards with 7.8 per game.

Sports Awards

- · Holly Weinberg, a sophomore in business administration, has turned softball fields across the Midwest into her personal playarounds. Through April 3. the sophomore first baseman led the GLVC in eight offensive categories, including batting average (.505), hits (46), home runs (10) and runs batted in (45) - setting new school records in the latter two with more than a month to play in the season. In a March doubleheader against Lincoln, Weinberg hit four home runs, hitting a two-run shot and grand slam in the opener, followed by a solo homer and a three-run blast in the nightcap. The feat of hitting homers with three, two, one and no runners on base in a day has been accomplished only one other time in NCAA history.
- Kandi Wieberg, a sophomore in civil engineering, Ashley Weiss, a senior in English, Lauren Feltmann, a senior in chemical engineering, and Weinberg all rank among the top 10 in hitting in the conference. Wieberg is hitting .404 and is second to Weinberg in slugging percentage at .697 from the leadoff spot in the lineup; she also has a league-high seven triples for the 24-4 Lady Miners.
- In baseball, Joe Montgomery, a junior in electrical and computer engineering, ranks fourth in the GLVC in batting with a .364 average, while Thomas McCormick, a freshman in architectural engineering, sits eighth in the batting race at .348. This is the first season in which the Miners are playing their conference games exclusively with wood bats.
- Heath Groom, a sophomore in nuclear engineering, cleared the 200-foot mark in the javelin throw at a meet at Truman State University in March, which has him seventh on the national list in that event. Groom has made the NCAA provisional qualifying mark in that event.

NORE than a grain of SALT?

A group of UMR scientists think it might be possible to discover evidence of life on Mars – especially if microbes or microfossils can be found in the most unlikely places on Earth.

To prove their point, the researchers searched for evidence of life in Lake Brown in Western Australia. The small, highly acidic salt lake provides an extreme environment with striking similarities to the Martian surface. The researchers were shocked by what they found.

"It was red everywhere," says **Francisca Oboh-Ikuenobe**, a professor of geology and geophysics at UMR. "I've never seen so much salt in my life. We were walking on salt crusts in very shallow water that stung our legs. It didn't look like anything could live in there."

But Oboh-Ikuenobe and other team members did find evidence of microbial life in bubbles, foams and hydrogen

sulfide odors. They also found pollen trapped in salt crystals, mostly pollen from small shrubs and herbs.

Oboe-Ikuenobe presented some of the group's findings at a symposium of the American Association for the Advancement of Science (AAAS) in St. Louis in February. The session was moderated by one of the lead UMR researchers on the Australia trip, **Melanie Mormile**, an associate professor of biological sciences who is an expert in microbes, especially the kinds found in salt crystals.

Lake Brown and other shallow, ephemeral lakes in Western Australia formed after the ocean retreated from the continent. Several of these lakes are acidic and hypersaline. Sometimes, according to Mormile, individual salt crystals manage to trap records of history in the form of microbial cargo – even in environments seemingly hostile to life.

"One question with regard to astrobiology is, if you take this research to Mars, what do you expect to see in the rocks?" asks **Estella Atekwana**, a professor of geology and geophysics at UMR who also participated in the St. Louis symposium.

Atekwana studies bio-signatures in rocks, collecting data to determine if microbes have been present in the past. "It's either life or it's not," she says. "In the case of Mars, we would need to know what to look for."

With ample time to study evidence of earth-life found in acidic salt crystals, Mormile and Oboh-Ikuenobe think they might have a better idea of what to look for on Mars.

The UMR researchers agree that, right now, it would be impossible to get adequate samples from Mars through the deployment of a robotic rover. But they don't discount the possibility of being able to collect the samples remotely, or through human visits to Mars, in the future.

There is NO substitute for winning

Kansas City would be better off winning a Super Bowl than hosting one, according to UMR economist **Michael Davis.** The assistant professor of economics co-authored a study that suggests fans of winning teams in the National Football League are bigger spenders than fans of losing teams. But, Davis says, economic windfalls for cities that host the Super Bowl might not be as great as people think.

"One thing people don't take into account is, if person X wasn't at the Super Bowl, there would be an auto show or conference in town," Davis says. "There are only so many hotel rooms."

That might be of interest to taxpayers in Kansas City, Mo., who recently voted to renovate the Truman Sports Complex, home to the Kansas City Royals and Kansas City Chiefs. The plan to build a rolling roof over the complex to keep out winter weather and hopefully pave the way for the city to host a future Super Bowl (a project with a reported cost of \$200 million) was voted down.

"The economic benefit of bringing a Super Bowl to the city is not anywhere near the cost of building a roof," Davis says. "Economists generally agree that new stadiums like the one in St. Louis and stadium improvements like those in Kansas City do much more to benefit the owners of a team than they do to boost the overall economy of a metropolitan area in the long term."



So the most important thing a team can do for its city is win, according to Davis.

"We propose that happier people work harder and are more productive in cities that have a winning NFL franchise," Davis

"We propose that happier people work harder and are more productive in cities that have a winning NFL franchise."

- Michael Davis

says. "When the home team wins, fans have a greater sense of well-being and are more likely to spend. We think this is especially true for fans of NFL teams who are playing well around Christmas."

Davis also plans to study the possible impact of winning percentages on the economies of Major League Baseball cities.

UMR study tackles pollution prevention at power plants

America's desire for cheap electricity, generated by the nation's coal-fired power plants, comes with a hidden environmental concern, says **Jianmin Wang**, assistant professor of civil, architectural and environmental engineering. Wang and his students are studying fly ash, a waste byproduct of the nation's coal-fired power plants that often ends up in landfills.

In 2004 alone, the country's power plants generated more than 70 million short tons of fly ash, containing various levels of heavy metals such as arsenic, lead and mercury.

"For traditional ash, the leaching of these elements is not a significant concern," Wang explains. But new regulations, issued in March 2005, while meant to cut emissions of certain pollutants, may actually increase the leaching of the toxic heavy metals, according to recent findings by Wang's team.

"Our research clearly indicates that high ammonia content can enhance the leaching of many heavy metals," Wang says. "In addition, more mercury could end up in fly ash as a result of the air emission control regulations, and could be leached from the fly ash. Therefore, precaution must be taken before and during any use or disposal of fly ash that is contaminated by ammonia or activated carbon."

Besearch data also indicates that pH is the most significant factor affecting the leaching of arsenic and selenium from fly ash and that adding calcium could significantly reduce the leaching of arsenic. The findings could lead to the development of low-cost and environmentally friendly methods of disposal or beneficial use for fly ash.

Working with Wang are:

- Lenin Kasthuri of Rolla, Mo., a graduate student in environmental engineering;
- Michael Dandurand of Warrensburg, Mo., a graduate student in environmental engineering;
- Harmanjit Mallhi of Jalandhar, Punjab, India, a graduate student in environmental engineering;
- Yu Liu of Welhai Shandong, China, a graduate student in environmental engineering;
- Tian Wang of Weihai, China, a Ph.D. student in civil engineering; and
- Xiaohong "Grace" Guan, a visiting scholar from Hong Kong University of Science and Technology.

ROLLAWOOD Homecoming 2006

Delta Tau Delta to celebrate 40 years

Founded in 1966, and with more than 250 alumni worldwide, the Epsilon Nu chapter of Delta Tau Delta will celebrate its 40th anniversary during Homecoming weekend. All members and their guests are invited to come back to the shelter to see what exciting things are happening and to remember the great things that have endured through the years. The Delts at Rolla are expecting more than 120 members, past and present, to be in attendance. Contact Jason Bridges at jdb@msm.umr.edu to RSVP or for answers to any questions. More information about group rate hotel rooms and finalized details will be sent out this summer, so please make sure the chapter has your latest contact information. Additional information will also be posted on the housing corporation's website: www.KappaPhiBC.org.

For Oct. 20-22, plans include:

- Friday evening, Oct. 20, bonfire and social at the shelter
- 8:30 a.m. Saturday, Oct. 21, pledges serve their traditional breakfast as a pledge class fundraiser
- 10 a.m. Saturday, Oct. 21, the annual alumni vs. active football game will be held at the UMR intramural fields
- Noon, Saturday, Oct. 21, lunch with outdoor games and activities
- 2:30 p.m. Saturday, Oct. 21, model ritual
- 6:30 p.m. Saturday, Oct. 21, banquet, St. Pat's Ballroom C, Havener Center, followed by a bonfire at the shelter

Tau Beta Pi to celebrate 100 years

The Missouri Beta chapter of the Tau Beta Pi Association will celebrate its 100th anniversary during Homecoming from 5:30 to 9 p.m. Friday, Oct. 20. A room will be reserved for TBP during the Silver and Gold Spotlight in the Havener Center to recognize the accomplishments of UMR members and to reflect upon its longtime history at UMR. Founded on Dec. 21, 1906, the engineering members of TBP are well known for their distinguished scholarship and exemplary character. The current chapter would like to include the outstanding accomplishments of past and present members at the event. Please send news of any outstanding accomplishments for inclusion in the program to rasdt2@umr.edu, or write Tau Beta Pi - Student Life, 218 Havener Center, Rolla, MO 65409-0770.

Alpha Epsilon Pi celebrates 40 years

The Nu Deuteron chapter of Alpha Epsilon Pi will celebrate its 40th anniversary during Homecoming. In addition to celebrating the anniversary, members and alumni will celebrate the purchase of the chapter house by its alumni association. Events will include a pancake breakfast Saturday morning and an alumni dinner Saturday evening. A large turnout of alumni and friends is expected. Questions may be directed to alumni association president Dustin Conrad at (314) 537-0068 or dconrad76@yahoo.com.

Sigma Tau Gamma marks 50th anniversary

The Alpha Omega chapter of Sigma Tau Gamma will celebrate its 50th anniversary during Homecoming. Events will include a social at the fraternity house on Friday evening, a group photo on Saturday, and dinner at the Havener Center on Saturday followed by a performance by alumnus Wes Searcy's band, The Excelerators. Questions or comments may be directed to sigtau50th@hotmail.com.

Jackling Jocks to Hold Reunion

The Jackling Jocks will hold a reunion during Homecoming 2006. Events begin with a barbecue on Thursday, Oct. 19 and continue throughout the weekend. For more information, contact Newton Wells via email at mnwells1@verizon.net or phone (979) 690-3650.

MSM-UMR Alumni Association Annual Awards

Alumni Achievement Award Recipients

Daniel F. Cole



St. Louis Senior Vice President, AmerenUE EMgt'75, MS EMgt'76

Dan Cole is the senior vice president at Ameren Corp., a position he has held since October 2003. He directs a range of key business and corporate services for Ameren, including information

technology, purchasing, environmental and safety services. Cole joined Union Electric, now known as AmerenUE, in 1976 as an engineer at the Callaway Nuclear Plant.



James R. Lucas

Shawnee Mission, Kan. President and CEO, Luman Consultants International Inc. EMgt'72

Jim Lucas, a recognized authority on leadership and organizational development, is a groundbreaking author and

thought leader, provocative speaker and experienced consultant on these topics. He is president and CEO of Luman Consultants International Inc., an organization which he founded in 1983. The company is dedicated to developing passionate, high-performance leaders, people, teams and organizations.



Peter W. Sauer

Urbana, III. Grainger Chair Professor of Electrical Engineering, University of Illinois

Professional Degree, Electrical Engineering, '95

Pete Sauer teaches courses and directs research on power systems and electric machines at the University of Illinois at Urbana-Champaign, where he is the Grainger Chair Professor of Electrical Engineering. He joined the faculty in 1977, and co-founded the Power Systems Engineering Research Center (PSERC) and PowerWorld Corp. He has served as the Illinois site director of PSERC since 1996.

Alumni Merit Award

EE'69

Russell E. Flye



Pasco, Wash. Principal Process/Specialty Engineer, Fluor Corp. ME'71

Russell E. Flye, principal process/specialty engineer for Fluor Corp., serves as the deputy engineering manager for the K-Basin <u>Closure Project at the Hanford Nuclear Reservation near Richland</u>,

Wash. An active member of Alpha Phi Alpha Fraternity Inc. for 38 years, Flye serves as a national committee chair and university chapter advisor. He also mentors African-American middle and high school students.

continued on page 26 >>>



Rollie Johnson

Chesterfield, Mo. Founder, President and CEO (retired) of Rollie Johnson Inc. ME'62

Rollie Johnson founded Rollie Johnson Inc. and excelled as a

manufacturing representative of commercial heating and airconditioning systems. He and his sons – who are all UMR graduates – founded Systems Enhancement Corp. to provide software for uninterruptible computer power supplies, and Electronic Support Products to distribute the related hardware. He is especially active with Pi Kappa Alpha.



Philip Jozwiak

St. Louis Vice President, Transportation/ Infrastructure, Geotechnology Inc. CE'66

Professional Degree, Civil Engineering, '00

At Geotechnology Inc., a St. Louis-based geotechnical and environmental engineering consulting firm, Phil Jozwiak is responsible for the overall direction and completion of the firm's large-scale projects, including airports, military bases, mass transit, environmental programs and treatment plants. Jozwiak has been very active in professional organizations and with UMR.

Robert V. Wolf Alumni Service Award



J. Richard Hunt Carbondale, Colo.

President, J. Richard Hunt & Associates (retired) MinE'50 Geology Option Professional Degree, Geological Engineering, '80

Dick Hunt's career began in the geophysical section for Stanolind Oil and Gas Co. Hunt and other Stanolind employees formed Empire

Geophysical, which later merged into Teledyne Exploration, where he served as vice president. He later formed J. Richard Hunt & Associates Inc., a worldwide geophysical consulting business serving the petroleum industry. He volunteers in professional, community and UMR activities.

Distinguished Young Alumni Award



Michael C. Fox

St. Louis Partner, Accenture ChE'90

At a rapid pace, Mike Fox has reached the highest career level

of partner at Accenture, a global management consulting, technology service and outsourcing company. He leads Accenture's Products Group in St. Louis and is the lead partner at Accenture's largest SAP engagement in North America. Fox supports UMR through the School of Management and Information Systems advisory board and the Corporate Development Council.



Jeffrey R. Seaman

Brownstown, Mich. Lead Calibration Engineer for 2007 Ford F250/F350, Ford Motor Co. ME'00

Jeff Seaman is responsible for delivering an engine calibration which makes the 2007 Ford F250/F350 meet federal emissions requirements, customer fuel economy targets and vehicle performance objectives, as the lead

calibration engineer for the vehicle at Ford Motor Co. He has a patent pending for aggressive DFSO, which consists of fuel economy improvements. Seaman actively supports the alumni association and UMR.

Frank Mackaman Volunteer Service Award

H. Pat Duvall



Seattle Director of Certification, Boeing (retired)

Math'62 Professional Degree, Mathematics '04

A retired colonel in the Army Reserves, Pat Duvall spent most of his career with Boeing, where he specialized in fire protection systems and supervised groups responsible for 767/747 airplane cargo and passenger interior furnishings, escape systems and FAA and international certification issues. He maintains a long-standing commitment to the MSM-UMR Alumni Association and UMR.

Outstanding Student Advisor Award

Diana L. Ahmad

UMR Associate Professor of History and Political Science

Diana Ahmad teaches courses on the history of the American West, the age of Jefferson and Jackson, the Pacific Islands and modern East Asia. In addition, she is the MSM-UMR archivist and serves as advisor for nearly half of her department's history

and history/education majors. She advises the History Club; Phi Alpha Theta; and Youn Wha Ryu, a UMR martial arts club.



Ronald L. Frank

UMR Associate Professor of Biological Sciences

As Ron Frank teaches evolution, general genetics and molecular genetics courses, he continues to incorporate new teaching innovations. Frank is the primary freshman advisor for biological sciences and biology/education majors. He also

advises upperclassmen who plan to pursue graduate careers in molecular genetics. He is faculty advisor to the student-run Gamma lota chapter of the Phi Sigma National Biological Honor Society.



Jacques Pierre Fransaw

UMR Coordinator of Minority Engineering and Science Program EMot'04

J.P. Fransaw, coordinator of Minority Engineering and Science Program, revamped the MEP website and the student

organizations that are housed in the MEP suite. Fransaw merged the MEP Summer Enrichment Program with the Hit the Ground Running Program, creating one pre-college experience.

UMI MS Sinc advi

Matt Johnson UMR Kappa Alpha Order Faculty Advisor MS CSci'00

Since early 2004, Matt Johnson has served as the faculty advisor for the Beta Alpha chapter of Kappa Alpha Order. Johnson visits with members of Beta Alpha on a weekly

basis and attends chapter events from time to time. This arrangement has proven to be enriching and beneficial for Johnson and the chapter. He is pursuing a Ph.D. in computer science at UMR.

ROLLAWOOD

MASTER SCHEDULE OF EVENTS

THURSDAY, OCT. 19

1:30 p.m.	Academy of Mechanical and Aerospace Engineers Board of Directors meeting, Missouri and Ozark rooms,
	Havener Center
5:30 p.m.	Academy of Mechanical and Aerospace Engineers Induction
	Reception, followed by dinner at 6:30 p.m., St. Pat's A & B,
	Havener Center
6 to 9 p.m.	Academy of Engineering Management Induction Banquet,
	Carver-Turner Room, Havener Center

FRIDAY, OCT. 20

8 a.m7 p.m.	HOMECOMING REGISTRATION, Havener Atrium, first floor, Havener Center - All alumni who return to
	Rolla should register in the Havener Atrium.
8 a.m4:30 p.m.	UMR Archives "Memories" Display, Curtis Laws Wilson Library
8 a.m4:30 p.m.	Corporate Development Council Meetings, meet in the Carver-Turner Room, Havener Center. Group meetings will be held in the Mark Twain, Burgess Conference and Walnut rooms, Havener Center
8 a.m 1 p.m.	Academy of Electrical and Computer Engineering business meeting, St. Pat's Ballroom B, Havener Center
8 a.m.	Academy of Mechanical and Aerospace Engineers breakfast with spouses, St. Pat's Ballroom C, Havener Center
8:30 a.m noon	Academy of Engineering Management business meeting, Room 226 Engineering Management Building
8:30 a.m2:30 p.m.	Academy of Mechanical and Aerospace Engineers, Missouri and Ozark rooms, Havener Center
8:30 a.m2:30 p.m.	Academy of Mechanical and Aerospace Engineers Spouse Program, Miner Lounge, Havener Center
9:30-11:30 a.m.	School of Mines and Metallurgy Alumni Academy Meeting, St. Pat's Ballroom A, Havener Center. Breakfast, followed by 9 a.m. meeting
10 a.m noon	FCR/Academy of Chemists and Biochemists, MRC Conference Room, Room 201 Materials Research Center, Straumanis Hall.
Noon	History Advisory Board meeting, Meramec and Gasconade rooms, Havener Center
-1:30 p.m.	LIGHTS, CAMERA, ACTION: James Bogan, Curators' Teaching Professor of art history and film, will debut his latest film Adventures of the Amazon Queen for the first time in the United States. This 29-minute flick will transport you into the heart of Brazil and its people. Riveting experiences and eyebrow-raising tales of shooting this magnificent film will follow. Location to be announced.
1:30-3 p.m.	Psychology Advisory Board meeting, Room 134 Humanities- Social Sciences Building. Board members meet with Robert Montgomery, department chair, at 11:30 a.m. in Room 109, Humanities-Social Sciences Building
2:30 p.m.	Afternoon Social for Mechanical and Aerospace Engineering alumni and friends, home of department chair, Ashok Midha, 808 Lariat Lane
3-4:45 p.m.	Molten metal casting demonstration, Foundry in McNutt Hall

		Departmental Open Houses and Receptions ciences, lawn in front of Schrenk Hall
	 Ceramic Eng 	gineering (Materials Science and Engineering), ice cream social, d in front of McNutt Hall
r I	 Chemical ar Civil and Ar Atrium, Butl of Civil Engi AGC, ASCE, 	Ind Biological Engineering Alumni Reception, Room 145 Schrenk Hal chitectural Engineering: 18th Annual Alumni Reception, Kummer ler-Carlton Civil Engineering Building - Sponsored by the Academy neers and hosted by the officers of the student chapters of ACI, Chi Epsilon, EERI, IDC, ITE, WEF, and the Alumni Committee of gineering Advisory Council
	 Computer S Economics a 	cience Alumni Reception, Room 327 Computer Science Building. and Finance, Room 101 Fulton Hall
	 Electrical ar first floor lo 	nd Computer Engineering, Emerson Electric Co. Hall, hbv
	 Engineering 	Management, Engineering Management Building, first floor foyer Technical Communication, Room 225 Humanities-Social
	 Geological S 	Sciences and Engineering (Geological Engineering, Geology and Petroleum Engineering), concrete pad in front of McNutt Hall
e	 Materials S 	cience and Engineering, ice cream social, concrete pad in
	front of Mcl Mathematic	Nutt Hall is and Statistics, Room 202 Rolla Building
	 Metallurgic 	al Engineering (Materials Science and Engineering),
5	 Mining and Psychology, 	ocial, concrete pad in front of McNutt Hall Nuclear Engineering, concrete pad in front of McNutt Hall Room G-7 Humanities-Social Sciences Building
	 School of N of McNutt H 	laterials, Energy and Earth Resources, concrete pad in front Tall
	3:45-4:45 p.m.	Alumni Assisting with Student Recruiting. All Admissions Ambassadors and alumni who would like to help UMR with recruiting efforts are invited. Cathy Tipton, from UMR
,	4-5 p.m	Admissions, Shamrock Room, Havener Center Miner Music Section Meeting, Room 138 Castleman Hall
	5:30-9 p.m.	(Choir Room) SILVER & GOLD SPOTLIGHT for alumni and friends in the
e II.		St. Pat's Ballroom, Havener Center. Follow the red carpet to meet the "stars" – UMR's Theatre Players, who will
		impersonate favorite stars of the early silver screen. Enjoy a dancing demonstration by the Rolla Rockettes and a dance troupe from Stephanie's School of Dance in
		Rolla. Members of Tau Beta Pi, Sigma Tau Gamma and
l		the Jackling Jocks will have a reserved room during this event. Dinner will be served buffet style starting at 6 p.m. The menu features pulled pork, mixed green salad, vegetable medley in vinaigrette dressing, cheesy potatoes,
		orange-glazed carrots, fresh sautéed spinach with tomatoes, assorted rolls and a chocolate fountain with fruits and
		breads. Each ticket includes the buffet, dessert, one drink
		and the entertainment. The Silver and Gold Lounge will be open with a cash bar.
		Tickets are \$22.50 each.
		Golden Alumni, who graduated in 1956 or before, may
11		purchase tickets for half-price (limit 2 per person).

7:30 p.m.

Women's Soccer vs. William Woods, UMR Soccer Complex

MASTER SCHEDULE OF EVENTS CONTINUED

SATURDAY, OCTOBER 21

8-11 a.m.	Alumni Association Board of Directors Meeting,	
	Carver-Turner Room, Havener Center	
8a.m5 p.m.	Arts and Crafts Festival in downtown Rolla,	
	9th and Elm Street, near Rolla City Hall	
9-noon	HOMECOMING REGISTRATION continues in the	
	Havener Atrium, first floor, Havener Center	
8-10:30 a.m.	UMR Archives "Memories" Display, Curtis Laws	
	Wilson Library	
9:30-11 a.m.	Biological Sciences Brunch, location TBA, to register call	
	(573) 341-4891	
11 a.m1 p.m.	UMR Athletic Hall of Fame open to visitors, Gale Bullman	
	Multi-Purpose Building	
11 a.m1 p.m.	RODEO DRIVE REUNION LUNCH for all alumni, family and	
	friends, St. Pat's Ballroom, Havener Center. It's time to cruise	
	into town to rub elbows with your fellow alumni. Reserved	
	seating for reunion classes of 1955 and before, 1956, 1961,	
	1966, 1971, 1976, 1981, 1986, 1991, 1996, 2001 and 2006.	
	Members of Tau Beta Pi will also have a reserved table	
	during this event. CLASS PICTURES WILL BEGIN AT 11:30	
	A.M.! Classes will be called from the St. Pat's Ballroom to	
	the Missouri and Ozark rooms for their photos. The menu	
	includes chicken parmesan, spiral pasta, garlic bread, green	
	beans almandine, Caesar salad and chocolate layer cake.	
	Tickets are \$11 each for adults.	
	Golden Alumni, who graduated in 1956 or before, may	
	purchase tickets for half-price (limit 2 per person).	
	Tickets for children ages 7 to 12 are \$5.50 each.	
1	Tickets FREE for children under age 7.	
1 p.m.	Annual Homecoming Football Game. Miners vs. Southern Nazarene	
	Allgood-Bailey Stadium	
	Tickets are \$5 each for adults.	
	Golden Alumni, who graduated in 1956 or	
	before, FREE (limit 2 per person).	
	Tickets FREE for children under age 7.	
5 p.m.	Mass at St. Patrick's Catholic Church, followed by a Wine	
a bum	and Cheese Social at the Catholic Newman Center	
5-5:45 p.m.	College of Arts and Sciences Alumni Reception,	
a arra built	Gasconade and Meramec rooms, Havener Center	

THE MSM-UMR OSCARS AWARDS BANQUET begins 5:45-9 p.m. with a cash bar reception at 5:45 p.m. in the Miner Lounge of the Havener Center. Dinner begins at 6:15 p.m. in St. Pat's ballrooms A and B, Havener Center. Some of our most impressive alumni ever to graduate from MSM-UMR will receive the prestigious MSM-UMR Alumni Association annual awards. (Bios about the awardees are included on pages 25-26 of this magazine.) James Bogan, Curators' Teaching Professor of Art, will entertain the crowd with his 12-minute film, T-shirt Cantata, and his insight into film making in Brazil. The Alumni Association's Annual Meeting will be held during this event. Dinner includes pecanencrusted tilapia OR beef tenderloin. Either meal will also include risotto, oven roasted vegetables, petit pain, Mesclun mix salad with smoked gouda, pecans and bloody mary vinaigrette, and for dessert, petite amaretto crème brulee. Tickets are \$26 for pecan-encrusted tilapia. Tickets are \$35 for beef tenderloin. Golden Alumni, who graduated in 1956 or before, may purchase tickets for half-price (limit 2 per person). 6:30 p.m. Delta Tau Delta's 40th Anniversary Dinner, St. Pat's Ballroom C, Havener Center. For more information or to register, contact Jason Bridges via email at jdb@msm.umr.edu Epsilon Psi chapter of Alpha Phi Alpha Fraternity, Black and 7-11 p.m. Gold "Miss Epsilon Psi" Ball and Step Show, location TBA. For reservations and information contact Keenan Miller via email kamhb5@umr.edu Time TBA Sigma Tau Gamma 50th Anniversary Banquet, Carver-Turner Room, Havener Center, followed by alumnus Wes Searcy's band, The Excelerators. For more information, contact sigtau50th@hotmail.com. Alpha Epsilon Pi 40th Anniversary Banquet, location to be Time TBA announced. For more information contact Dustin Conrad at (314) 537-0068 or dconrad76@yahoo.com.

SUNDAY, OCT. 22

1 p.m.

UMR Advisory Committee for African American Recruitment and Retention Meeting, Havener Center.

Student-sponsored Homecoming activities:

- •Homecoming BBQ, Havener Center, 11:30 a.m.-1:30 p.m. Monday, Oct. 16
- · Games, Noon, Monday-Thursday, Havener Center
- Homecoming Banners on display in the Havener Center starting Wednesday, Oct. 18
- •Homecoming Lip Sync Contest, Tuesday, Oct. 17, contact sub@umr.edu, (573) 341-4220
- •House Decorations on display around campus, 4 p.m. Friday, Oct. 20
- Royalty Introductions, 12:30 p.m., Saturday, Oct. 21, Allgood-Bailey Stadium. Homecoming King and Queen crowned at halftime!

Other student activities include movie trivia night, movie skit reenactment, scavenger hunt, yard and banner displays, movies, a comedian and a dance.

Homecoming Registration Form

REGISTER ONLINE AT http://www.alumniconnections.com/olc/pub/umr or complete and mail in the form below.

Name	ts names so the appropriate name tags can be created in advance)
Name Home Address	
City*State*Postal (ZIP) Code	
Country	
Phone (Phone # format 123-456-7890 for U.S	
Email	Guest Name
SECTION #2: Affiliation with MSM-UMR	
Alumnus/Alumna grad year and major	Friend Parent Student Staff/Faculty
sautéed spinach with tomatoes, assorted rolls, a chocolate fo \$22.50 per person (If you graduated from MSM in 199 GOLDEN Alumni (those who graduated 1956 and befor GOLDEN Alumni (those who graduated 1956 and befor Gaturday, Oct. 21: 11 a.m. to 1 p.m. Rodeo Drive Reunion Lunch, St. P Class photos begin at 11:30 a.m. The menu includes chicken Caesar salad and chocolate layer cake. \$11 per person (Children and Golden Alumni receive a \$5.50 for children ages 7 to 12 \$5.50 for Golden Alumni (those who graduated in 19) FREE for children under age 7 Saturday, Oct. 21: 1 p.m. Football game: Miners vs. Southern Nazarer \$5 per person (Children under age 7 and Golden Alum FREE for Golden Alumni (those who graduated in 195) FREE for children under age 7 Saturday, Oct. 21: Alumni Roundup Awards Banquet. Reception begin Dinner includes pecan-encrusted tilapia OR beef tenderloin. F Mesclun mix salad with smoked gouda, pecans and bloody m \$26 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated from MSN \$35 per person for tilapia (If you graduated f	Ballroom, Havener Center e medley in vinaigrette dressing, cheesy potatoes, orange glazed carrots, fresh ountain with fruits and breads, and one free drink. Cash bar will be available. 56 or before, please see the option below) ore) select this half-price option \$11.25. (Limit two per Golden alum) Pat's Grand Ballroom, Havener Center parmesan, spiral pasta, garlic bread, green beans almandine, a reduced rate. Please see options below.) 156 and before. Limit two per Golden alum.) ne nni receive a special reduced rate. Please see options below.) 66 and before.) n at 5:45 p.m.; dinner at 6:15 p.m., St. Pat's Ballroom A and B, Havener Center. Each dinner also will include risotto, oven-roasted vegetables, petit pain, nary vinaigrette, and for dessert, petite amaretto crème brulee. M in 1956 or before, please see option below.) from MSM in 1956 or before, please see option below.)
\$17.50 per person for beef tenderloin (for GOLDEN AI	lumni only – limit two per alum.)
SECTION #5:	ming
Name of the professor(s) you would most like to see during Homecol I have special dietary needs. Please arrange for my meals to be:	
. I will need the following special accommodations:	
SECTION #6: TOTAL AMOUNT DUE:	(charge this amount due to my credit card)
	Credit Card Expiration Date: Month: Year
rodit Card Number:	
credit Card Number: Please enter credit card number with hyphens or spaces; do NOT enter as	Credit Cald Expiration Date. Month Teal
Fredit Card Number: Please enter credit card number with hyphens or spaces; do NOT enter as lame as it appears on the credit card:	s one long number.)

We want your news

Submit your Section News by July 10 to alumni@umr.edu for inclusion in the winter 2006 issue.



Las Vegas Section alumni enjoy dinner and a presentation by Chancellor Carney.



Las Vegas Section member Linda Michaelsen, with her "Little Mac" award, is congratulated by Chancellor Carney and her husband, Ward.

air capital

Jan. 28 – Members of the Air Capital Section convened at the Kansas Coliseum to watch their local Wichita Thunder battle the Memphis RiverKings. Alumni cheered on the Thunder to a thrilling victory as the Thunder defeated the RiverKings in overtime 6-5.

Those attending included Sean Daly '96; Rob Davis '01; John Goethe '92; David '95 and Melissa '96 Herberger and Jeff Rottler '04.

ark-la-tex

Jan. 28 – Ark-La-Tex Section members traveled to the CenturyTel Center to cheer on the Bossier-Shreveport Mudbugs as they battled the Fort Worth Brahmas. Dinner was served at the arena and the hockey game followed. The score was close but the Mudbugs lost to the Brahmas 3-4.

Those attending included Lincoln '01 and Connie '02 Bauer; Erin Boren '02; Nathaniel '03 and Melissa Huckabay; Loretta Moscari; Louise Patton; Dustin '03 and Morgan '03 Penn and Jerry Poland '82.

central ozarks

Jan. 19 – The Central Ozarks Section gathered at the Havener Center to learn more about UMR's nine student design teams. Alumni were joined at dinner by a student representative from each design team and were later addressed by Rob Stone, director of the Student Design Center. Following dinner, the center was open for tours.

Those attending included John Allen '42; Lindsay Bagnall '76; Stuart Baur '02; Valarie Boatman; Joe Bowles; Ryan Buschjost '94; Andrew and Dyann Careaga; Judy Cavender; Mark Eilers; Betty Eyberg; Abby Flaim; Ralph Flori '79; David Galvan; Ed Hale; Diane Heckemeyer '86; Paul '95, '97, '02, and Julie '99, '00 Hirtz; Wayne Huebner '82, '87; Charles Kulinski; Randall Lewis; Pam Manley '90; Stephanie Martensen; Dan McAdams; Don Myers '61; Jason Nolte '05; Hank Pernicka; Bob Phelan; Scott Preston '97; Kyle Rackers; Chris '83, '85 and Darlene '84 Ramsay; Paul Robinette; Jacques '73 and Cindy Sachs; Bill '58 and Beth Schluemer; Judy Schwalje; Kevin Schwalje '96; Drew Siebert; Trish Sowers; Laura Stirnemann '05; Rob Stone '92; Dottye Wolf; Bob Wilson '62; Chris Wright and C.H. Wu.

indianapolis

Feb. 2 – Members of the Indianapolis Section assembled at Rock Bottom Brewery Basement for happy hour and dinner and then headed down to the University of Indianapolis for the UMR Miners basketball game. In spite of the UMR cheering section, UMR lost 74-40. Unfortunately, the group missed the women's game, which UMR won in overtime 70-68. It was the first event for several attendees and we hope to see these members again soon.

Those attending included Jason Bagwell '87; John Brannon '85; Dale '99 and Missy '99 Carr; Ken Pendleton '60 with Linda Jacobsen; Wes Merkle '03; Les '66 and Linda Stewart; Emily Wehmeyer '97, '00 and Bob West '87.

las vegas

Feb. 7 – The fifth annual Las Vegas region MSM-UMR Alumni Association dinner was held at Landry's Seafood Restaurant with an address from Chancellor John F. Carney III. Carney discussed increasing enrollment at UMR, campus expansion and improvements, budgetary and funding challenges, the outlook and overall success of recent UMR graduates, and the goal of making UMR one of the nation's top five technological research universities. We thank the chancellor for taking time from his busy schedule to visit Las Vegas and address our group.

Also in attendance from UMR were Lindsay Bagnall, executive vice president of the MSM-UMR Alumni Association, and John Reat from the UMR development office. Bagnall presented Linda Michaelsen with this year's Frank H. Mackaman Section Volunteer "Little Mac" award for outstanding dedication and service to the chapter. Rumor has it the Las Vegas chapter will lose Michaelsen, who will soon be relocating back to Missouri. (You just can't keep a girl from Doolittle away from Missouri forever.) Thanks, Linda, for all your hard work in the development and success of the Las Vegas Alumni Section. We will miss you.

Those attending included Larry '63 and Sheila Abernathy; Kerrie Blazek '93; Maureen Cassin '05; Steve Eischer '80; Amanda Ellsworth '02, '03; Hemi '67 and Asha Kalia; Roger Keller '75, '82; Linda '80 and Ward Michaelsen; Lori Miller '05; Bill O'Neill '55; Darrell '68, '70, '73 and Jeanne Pepper; Jenna Quigley '79, '84; Dana '73 and Nancy Reel; Richard Talbert; Dan Thebeau '75 and Charlie '55 and Joanne Vaughn.

peoria

Feb. 2 – Peoria area alumni turned up at the beautiful Hotel Pere Marquette to meet Chancellor John F. Carney III. Alumni and spouses mingled and enjoyed cocktails, before sitting down for a delicious dinner. Afterward, Chancellor Carney presented the alumni with an update on the progress occurring on the UMR campus.

Those attending included Larry Black '83; Randal Braun '68; Darryl '78 and Robin Brinkmann; Stephen '77 and Janet Burr; Brian Call '97, '99; Rick Campen '70; John F. Carney III; Jason '96, '98 and Camry Carter; Judy Cavender; John Ezzell '74 with Mark; Keith Gettinger '00; Tim '01 and Michelle Hand; Aaron Hogue '02; Jim Humphrey '79; Vijay Janardhan '02, '05; Stephanie Martensen; Paul Miles '90; Randy Mitchell '76; Mike '73 and Marianne Moll; Jeff '01 and Carrie Morris; Larry Mueller '75; Mike Murray '05; William



Chancellor Carney greets Peoria Section members.

Nance '05; Boris '73 and Kelly Peharda; Karen Raab '89, '90; Otto '02, '04 and Crystal Rajtora; Bart Regelbrugge '65; Nick Sturm '01; Marianne Ward and Steve Wunning '73.



Southern California Section members enjoy Chancellor Carney's presentation.



Chancellor Carney reports on the state of UMR to Southern California Section members.

southern california

Feb. 4 – Southern California Section alumni assembled at Mardi Gras restaurant in Toluca Lake to meet UMR's new chancellor, John F. Carney III. Alumni and guests dined on an assortment of appetizers and listened to an update on the remarkable things happening on campus.

Those attending included John F. Carney III; Eileen Chambers '01; Hugh '72 and Linda Cole; Genevieve Fabela '00; Jerry '59 and Myra Fridenberg; Rich '80 and Lauren Harwin with Beth Newcom; Nathan Jaffe '41; Annette Justus '01, '02; Jim Justus '60; Christine Kasitz '98; Ed Kyburz '50; Maggie Morrison; Scott '55 and Joyce Porter and Mandy '99 and Rob Posgai.

st. louis

Jan. 21 – Alumni and friends traveled to the Vadalabene Center at Southern Illinois University in Edwardsville, Ill., to cheer on the UMR men's and women's basketball teams. Despite their best efforts, the Lady Miners lost 54-68 in the first game, and the Miners lost 29-62 in the second game. After the games, everyone headed over to Shenanigans Bar and Grill to enjoy food and drinks at happy hour.

Those attending included John '81 and Vicky Boncek; Tami Bowman '00; Don '93 and Nancy '96 Brackhahn; Randy Dreiling '81; Jarrod Grant '98; Darrell Heckel '02; Derrick Heckel '02; Doug '94 and Lori Heckel with Lindsay; Keith '75 and Kim Hogan; Tim '88 and Shari Hudwalker; Michael '60 and Jo Kearney; John Laschober '81, '86; Gail Lueck '02, '03; Ralph Lueck '68; Jerry '66 and Jean McCullough; Sue '74 and Sandy Rothschild; Joanne Steineman '92; Samuel '03 and Sylvia '03 Strackeljahn; Jon '63 and Pat Vaninger; Ed '59 and Lynn Wakefield; Jon Wies '03; Sarah Wiszkon '00 with Hannah; and Mark '88 and Denise Zarr with Mildred, Taylor and Jack.

west texas

Dec. 19 – Mike and Cathie Party graciously opened their home to members of the West Texas Section to celebrate the holiday season. Alumni and guests enjoyed light hors d'oeuvres, drinks and great conversation.

Those attending included Gerry '58 and Peggy Armstrong; Tracy Cowan '85; Frank '66 and Aurelia Kieffer; Robert Lee '79; Don '52 and Lou Matson; Alan '80 and Renee Means; Sal Pagano '73; Mike '78 and Cathie Party; Andy '83 and Odella Rickard; Jack '72 and Liz Rose and Scott '80 and Tracie Wehner.





1. Members of the Carolinas Piedmont Section celebrate St. Pat's. 2. St. Pat, portrayed by Ken Hubbman, a junior in ME, with the Queen of Love and Beauty, Alyson Habermehl, a sophomore in ArchE. **3.** Jason '91 McHaney and son, Patrick, with St. Pat. **4.** Chicago area alumni show their St. Pat's spirit. **5.** Cincinnati/Dayton Section members come out for their annual St. Pat's party at deSha's. **6.** Heartland Section members celebrate St. Pat's at Nick's Family Sports Pub.

air capital

1.

March 11- The home of Tony and Laura McLaughlin was the setting for the Air Capital Section's annual St. Pat's Party for the second year in a row.

Those attending included Daniel Belcher '98; Connie Byrne; Sean Daly '96; Rob Davis '01; Tom '81 and Linda Hayes; Robert Jordan '03, '05; Jennifer Marshall '96; Travis '99 and Vicky '99 Mattingly with Megan; Kevin '03 and Jane McGuire and Tony '98 and Laura '99 McLaughlin with Annabelle and Lillian.

carolinas piedmont

March 11 – Carolinas Piedmont alumni dusted off their favorite St. Pat's sweatshirts and met at the Elks Lodge in Salisbury, N.C., to celebrate an old MSM-UMR tradition. Several old St. Pat's stories were shared over glasses of green beer and plenty of food. The party continued March 18, when the group met at the St. Pat's parade in Charlotte, N.C.

Those attending included Brent Blizewski '73; Corey Chapman '04 with Amanda Benjamin; Bill '61 and Judy Gerhart; Richard '57, '62 and Janice Heagler; Bill '69 and Sandy Knauf; Gene '50 and Lenny Langston; Patrick Martin '81, '89; John '81 and Yvonne '81 Renz; Brian Tenholder '97 and Sarah Wansack '98.

central ozarks

March 18 - Alumni from all across the country came back to Rolla for the annual St. Pat's celebration and many stopped by the alumni office for a pre-parade reception. Alumni indulged in homemade cinnamon rolls and washed them down with a beverage from the cash bar. The celebration continued at the parade.

Those attending included Ed '78 and Sue Albee; John Allen '42, '47; Bill Anderson '67; Dan and Carol Babcock; John Bade '85, '87, '98; Kent '76 and Lindsay '76 Bagnall with Lydia and Carol; Mella Baxter '87; Bob '49 and Peggy Bay; Jerry Bayless '59; Mary Bird; David Birenbaum '78, '87; Brian Bohachick '99; Martin and Elvan Bohner; Brian Booth '97, '05; Don '93 and Nancy '96 Brackhahn; Kevin Brady; Glenn '83 and Mindy '84 Brand; Jason Bridges '00; Eric Bussen '89; Brian Call '97, '99; Andrew Careaga; Nate '04 and Heather '04 Carriker; Matt Coco '66; George Colgrove '69; Keith Corzine '92, '94, '97; Sue Crews '80; Charles Culp '03; Emile Damotte '66; John Eash '79; Dick Elgin '74; Amanda Fair; Norman Fanning '49; Neil '56 and Barb Fiala; Dixie Finley '68; Lisa Gallagher '81, '83; Neal Grannemann '61; Julie Griffith '93; Sara Grondin '05; Lance Groseclose '80; Winnie Gunn '88; Brian Heckman '04 with Angie Scherr; Larry Hendren '73; Bill Hinton '76, '78; Al '85 and Sue '85 Hoppe; Wayne Huebner '82, '87; Rich '68 and Judy Janis; George Karr '92; Chris Kelly '03; Dave '82 and Kathy '82 Kusmec; Doug and Karen Look; Pat '76 and D.C. Look with Sarah, Matt, and Emily; L.G. Loos '77, '82; Jennifer Lynch '74; Ben Malcolm '05; Pam Manley '90: Bob '60 and Dorothy Marshall: Todd, Stephanie and Caleb Martensen; William Matchett '84; Gene '70 and Linda McFarland; John McGillick; Kim McGinnis '79; Amy and Mike McMillen; Mark McNeal; Gerald Meyr '76; Ashok and Chris Midha; F. Scott Miller '99; Tom Mills '73, '75; Girard '74 and Lynn '70 Mirgain; Brad Morgan '05; Jeff Murphy '99; Milt Murry '64; Don Myers '61, '64; Brad Parker '04; Scott Preston '97; Nick Quartier '80; Chris '83, '85 and Darlene '84 Ramsay; Chuck Remington '49; Debra Robinson; Myrna Rueff; Jeff Schramm '92: Mark Simecek '94: Ellis Smith '55: John Smith '51 with Jim Smith; Mark Smith '80; Dale Spence '97; Joy Stein '05; Renee Stone; Mary Stubbs; Mike Suda '80; Lucy Sutcliffe; Mike Tindill '77; Armin Tucker '40; Norman Tucker '40; Quinn Uzoaru; Randy Verkamp '72;



Betty Volosin; Kurt Wagner '03; Steve, Marianne and Jessica Ward; Brandi Washburn; Keith Wedge '70, '71, '73; Martin White '74; Bob and Jalia Wilson '62; Mary Wind; Jenny Wither; Dottye Wolf; Paul Woods '96; Andy Zehner '04 and Bill Ziegler '82.

chicago

March 19 - The ever-vibrant Chicago Section gathered at McNally's Traditional Irish Pub in Elmhurst for a fun night of catching up with old friends and making new ones. The food and drinks were excellent and the white elephant raffle was interesting as always. Larry Hendren, president of the MSM-UMR Alumni Association, made the trip from Missouri and updated everyone on the university and the alumni association and conducted a brief question-and-answer session.

Afterward, our annual officer elections were held. Congratulations to the 2006 officers: president re-elect Parris Ng '00, vice president Stephan Magenta '99, and secretary and treasurer Tommy Mills '02. We hope to see even more Chicago area alumni in attendance next year.

Those attending included Kathy '79 and Erik Andersen; Bill Bishop '71; Dennis '79 and Susan Blake; Lance Driskill '94; Steve Dunkmann '72; Ron Fadler '72; Randy '83 and Mara Hauser; Larry Hendren '73 with Emily; Stephan Magenta '99 with Laura Dudlicek; Mike '77 and Sandy '77 Marx; Dennis '58 and Rhea Mason; Tommy Mills '02, '04; Robert '71 and Elizabeth Morrison; Fred '95 and Jessica '97 Niemeier; Parris Ng '00 with Jenny Che and John Remmers '84 and Catherine McCain '85.

cincinnati/dayton

March 18 - The Cincinnati/Dayton Section held its annual St. Pat's party at deSha's. Tom Zenge asked everyone to review two scholarship applicants. Jay Jones reported that he and Zenge would be at a recruiting event the following day. Elections were held and Bret Baldwin was elected president; Jones, recruiting chair; and Zenge, scholarship chair.

Those attending included Bret '93 and Gina '93 Baldwin; Don Belcher '52; Randy '73 and Becky Casteel; David Cornell '86; Jason '94 and Renee '94 Groenemann; Jim '57 and Betty Johnson; Jay Jones '71; Steven '02 and Kristy '01 Shiffman; Daniel Strong '93, '00; Bob '70 and Carolyn Wilmesherr and Tom '69 and Judy Zenge.

enchanted

March 19 – The members of the Enchanted Section met at the Uptown Sports Bar & Grill in Albuquerque to celebrate St. Pat's UMR style. Plenty of green was evident as alumni and guests chatted and enjoyed drinks and appetizers. Thanks go to Virginia Cleary for coordinating the event.

Those attending included Mike Allen '62; Alex Berry '03, '04; Virginia Cleary '02; Julio Jaramillo; Randy King '67; Rachel Kuro '02; Megan Freidank; Roland Freidank '38; Chris Martin; Dave Owsley '61; Chris Padilla '84; Todd Rastorfer '98; Jim '84, '85 and Anita Studer with Matt; Jonathan Van Houten '03; Tiffany Vicenti; Mike Voorhees; Vince Wahler '65 and Ben Weidle.

falls of the ohio

March 17 - Falls of the Ohio Section members met at the Hunting Creek Country Club in Prospect, Ky., with special guest UMR Athletic Director Mark Mullin. Alumni and guests enjoyed a social hour and a brief business meeting to discuss upcoming events and officer elections. Coming events include a baseball game, golf scramble, day at Churchill Downs, and a Bellarmine vs. UMR basketball game. Election of officers returned last year's slate. Dirk Gowin was elected president, Bob Morfeld, vice president; Bob DeSpain, secretary/treasurer; and John Lima, James Abbott and Gary Hamilton as members at large. The evening commenced with Mullin's

presentation, highlighting the move to the GLVC and opportunities for area alumni to cheer on the Miners when they play

Bellarmine. Those attending included Scott '84 and Terry Giltner; Dirk '91 and Nickie Gowin; Gary '71 and Ellen Hamilton; Bob Morfeld '69; Mark Mullin; Bob '54 and Ludie O'Brien and Tom '62 and Judy Phillips.

flint hills

St Pat's 2006

March 25 - Pat's Blue Rib'n Barbeque was a fantastic place for the members of the Flint Hills Section to celebrate St. Pat's. Over barbeque, alumni and guests, in green of course, caught up with old friends and made some new ones. Members not only partied down but also took care of some business, discussing the future direction of the section.

Those attending included Courtney '03 and Caroline Buck; Christina (Duker) Cook '95; Dave Freise '77 with Maggie Batchelder; David '84 and Susan Goldammer; Gene '58 and Mary Russell and Mike Turrentine '00 with Susan Oxandale.

heartland

March 18 – On Saturday evening, members of the Heartland Section gathered at Nick's Family Sports Pub to celebrate St. Pat's. Current festivities on campus were compared to those of yesteryear. The status of the Heartland Section scholarship and the future direction of the section were also discussed.

Those attending included Jackie East '89; Don Fuller '66; Dan '81 and Valeria Klaproth; Don Laughlin '64; Jason '91 and Kathy McHaney; Ron Meldi '72 and Jim '56 and Gwen Ware.

(continued on the next page)

For more St. Pat's photos, go online umrmagazine.umr.edu



 Southern California Section members celebrate St. Pat's on the beachfront.
 Springfield area alumni distribute candy from Earl Burk's 1941 "cab over engine" Chevy dump truck. Rocky Mountain Section members enjoy a St. Pat's Dinner at White Fence Farm.
 Southern California Section members get into the St. Pat's spirit. **5.** Peoria area alumni and students gather round UMR's human-powered vehicle. **6.** UMR's 2006 St. Pat's parade, "Tall Tales."

indianapolis

March 22 - The third annual Indianapolis Section St. Pat's party was held at the Claddagh Irish Pub in Indianapolis. Several members showed up sporting the green sweatshirts that all MSM-UMR alumni know and love. Great Irish food and conversation were enjoyed by all.

Those attending included Jason Bagwell '87; Don Bogue '55; John Brannon '85; George '60 and Mary Graves; Mary Muldoon '91; Ken Pendleton '60 with Linda Jacobsen; Les '66 and Linda Stewart; Bob West '87 and Rich '70 and Sally Williams.

lincolnland

March 19 - Sixteen alumni and guests enjoyed drinks, hors d'oeuvres and socializing at the home of Jerry and Mary Parsons. A special treat was a phone call from former section president and area director Bob Uthoff. A special thanks to Jerry and Mary Parsons for planning and hosting this event. Those attending included Rich '69 and Caroline Berning: Tom Feger '69; Jim '66 and Connie May; Ed '69 and Anne Midden; Rich '64 and Sandy Mochel; Jerry '70 and Mary Parsons; Will '66 and Carol Sudduth; and Amanda '99 and Andy Withers with Logan.

md/va/dc

March 4 – The members of the Maryland/Virginia/DC Section met with Chancellor John F. Carney III at the home of Brad Fulton in Fort Washington, Md., to celebrate St. Pat's. Alumni and guests enjoyed a potluck meal followed by Carney's update on the state of UMR.

Those attending included Ken Arnold '71; Mike Becvar '94, '96; Lynn Bennett; Pete '48 and Bobbie Bermel; Randy Cole '87; Donny Cone '02; John Fitez '02; Bradley Fulton '88; Cathy Henson '72; Jessica Henson '03; Kent Lynn '85; Jenny Maruschak '98; Chris Mayberry '98; Charles McGrady '67; Dave Michel '64; John Rice '63; Bob Scanlon '73; Joe Schumer '92 and Mihai Sirbu '93.

pacific northwest

March 18 – Members of the Pacific Northwest Section gathered at Roundtable Pizza to celebrate St. Pat's. Though the group was small, everyone enjoyed the food and conversation, then held a short business meeting to discuss plans for Chancellor Carney's visit in May.

Those attending included Casey Engstrom '92; Chuck Hollenbeck '61; Pete Malsch '62; Stephen R. Strauss '68 and Mike Warfel '75.

peoria

March 22 - Members of the Peoria Section gathered at Alexander's Steak House to celebrate St. Pat's and to learn about some of UMR's student design teams. The Human-Powered Vehicle, Robotics, and Solar Car teams, along with project manager Bob Phelan, displayed their projects outside of the restaurant for all to enjoy. Alumni dug out their oldest St. Pat's shirts in order to vie for prizes for the oldest green. Students were on

St Pat's 2006

hand to mingle with alumni and catch them up on new St. Pat's traditions.

Those attending included Darryl Brinkmann '78; Steve Burr '77; Brian Call '97, '99; Eric Charles '05; Shawn Cullen '01; Jolene Dunlap '87 with Stephen MacLead; Sarah Dunn '05; Craig George; Dan Krus; Christy Lee '96; Jeff '01 and Carrie Morris; Larry Mueller '75; Nathan Parr '86; Bob Phelan; Bart Regelbrugge '65; Paul Robinette; Andrew Sourk; Fred '03 and Meghan '03 Stackley; Will Strasser '00; Aaron Taylor '04; Steve Trower '81, '86; Bob Wille '80; and Matt Wolk '04.

rocky mountain

March 17 - White Fence Farm in Lakewood, Colo., served as the backdrop for the Rocky Mountain Section St. Pat's Celebration. James and Jennifer Cordia were recognized as the most recent graduates. while Albert Sindel, Hugh Blevins and Clarence Babcock were recognized as the earliest graduates. The class of 1971 was the largest class in attendance. Members of our group were involved in the construction of the DIA airport, creation of our new Mile High Football Stadium and our new convention center and library; and they have been in mines in South America and the oil fields of Africa. Once again we realized that UMR alumni are involved all around the world.

During the meeting, Jerrod Keith was named the Rocky Mountain Section Scholarship winner. Dave Bufalo shared the latest UMR information received at the recent visit by Chancellor John F. Carney III and stressed the importance of support from UMR alumni.

Special thanks go out to Clancy and Sharron Ellebracht for coordinating the St. Pat's dinner.

Those attending included Clarence '51 and Dorothy Babcock; Hugh '53 and Ann Blevins; Dave Bufalo '66 and Cynthia Powers; James '97 and Jennifer '96 Cordia; Roger '69, '71 and Cyndi Dewey; Terry '71 and Karen Donze; Dave '68 and Sandra Debner; Thomas '71 and Pamela Doutt; Clarence '64 and Sharron Ellebracht; Michael '71 and Glenda Ellis; John Henry '66; Kurt Humphrey '78; Jerry '72 and Carol Ann Kiel; James Lundy '67; Timothy '76 and Cathy O'Neill; Michael Quinn '75; Albert Sindel '42; Michael Steffens '73; Roger '72 and Lynn Taylor; and Stephen '71 and Debra Wampler.

southern california

March 11 - Hennessey's Tavern in Hermosa Beach provided a beautiful setting for the Southern California Section St. Pat's Party. Plenty of green could be seen while partygoers ate, drank and enjoyed the view of the beach. Thanks go to Mandy Posgai for coordinating the event.

Those attending included Tim '01 and Jackie '01 Albers; Bill Andrew '69, '71; Greg '70 and Diana Bachman; Chris Behrens; Hugh '72 and Linda Cole with Lindsay; Steven Felstein '73; Rich Harwin '80; Nathan '41 and Bena Jaffe; Adam Lang '01, '03; Ryan '03 and Jane Mallery; Steaven Meyer '00; Dave Moore '82; Beth Newcom; Andrew and Bev Pohlman with Molly; Mandy '99 and Rob Posgai and Jerry '71 and Georgia Sewell.

springfield

March 18 - Despite the cool, rainy morning, the Springfield, Mo., St. Pat's parade went off without anyone using an umbrella. Springfield Section members kept with tradition and rode in Earl Burk's classic '41 Chevy truck and distributed more than 40 pounds of candy to happy parade watchers.

Those attending included Amy Allen; Earl '70 and Karen Burk with Bailey and Trevor and Chris Fann.

st. louis

March 11 - Forty-five alumni and family joined the St. Louis Section at the Downtown St. Louis St. Patrick's Day Parade. Everyone enjoyed the parade and the fantastic spring weather. Many members continued the celebration at a nearby Imo's restaurant after the parade. Plenty of UMR St. Pat's green was displayed, with the oldest St. Pat's sweatshirt (1974) proudly worn by L.G. Loos '77.

Those attending included James '99, '01 and Laura '01 Castle with Madeline; Emile '66 and Marie-France Damotte with Martin: John '74 and Judy Dowdy; Randy Dreiling '81; Wayne '85 and Diane Ellenberger with Kyle and Josh; Melissa Felton '93; Jarrod Grant '98; Mark '02 and Elizabeth '04 Hopkins; James '99, '02 and Kate '02 Klotz with Mason and Carter: L.G. '77 and Cathryne Loos; Milt Murry '64, '80; Kurt '85 and Joan Oakes with Louis; Troy '96 and Mindy '96 Peterson: Joel '95 and Laura '94 Rickman with Nathaniel, Grace and Adam; Nicole Schmidt '04: Christina Sfreddo '94 with Tim: Deanna Venker '94; Katie Weinkein '03; Christy Witte '95 and Brian '01, '05 and Carrie '01 Wright with Ella, Nora and Vivian.

twin cities

March 21 – Members of the new Twin Cities Section met to celebrate their first St. Pat's party at the Claddagh Irish Pub in Maple Grove, Minn. The evening, hosted by Mark and Mellanie Goldsmith, included a generous feast of various Irish entrées and ended with the first official section meeting.

The section awarded its first alumni scholarship to Holy Family Catholic High School senior Thomas Bailey of Belle Plaine, Minn. Future chapter events were discussed as well as the desired structure of this new alumni group. Door prizes were eagerly received and it became obvious that this new section is full of people who are very social and really like to have fun.

Those attending included Joe Clendenen '02; Bret Collier '85; John Dalton '99, '91; Jerry '74 and Linda DeHaven; Bob Garvey '61; Mark '94 and Mellanie Goldsmith; Beth Hayward '05 with Christine Hayward; Michael '84 and Ellen '85 Hoerle; Carol Kuhn '62; Terry '68 and Alexis Nagel; Evan '65 and Brenda Thomas and Jerry '79 and Lisa Ward.

alumni notes



Above: Leonard, ME'42, and Ellen Grimm in 1942 standing on the sundial in front of Norwood Hall. At right: Leonard on the UMR campus in 2005.



Sigma Xi honors alumnus

To honor and promote creativity among scientists and engineers, Sigma Xi has established a new annual award named in honor of alumnus **Walston Chubb** MetE'48, MS MetE'49.

The Walston Chubb Award for Innovation "is a tangible expression of Sigma Xi's mission statement to honor and encourage excellence in science and engineering," said Sigma Xi Executive Director Patrick D. Sculley.

With more than 40 published papers and 10 patents in his name, Chubb retired from Westinghouse where he worked on nuclear reactor materials and radiochemistry. Chubb created an endowment fund for furthering the Sigma Xi purpose.

Sigma Xi, founded in 1886, is the international honor society for science and engineering. Its membership consists of nearly 65,000 scientists and engineers through more than 500 local chapters, including a chapter in Rolla.

1941

Clyde K. Hanyen, ME: "My two grandsons are now working in San Francisco. Neither of them are engineers. Their father is a lawyer."

1942

Leonard J. Grimm, ME, visited his grandson, David Saunders, at UMR last fall. Last year, he and his wife, Ellen, celebrated their 63rd wedding anniversary. After Grimm retired from McDonnell Douglas, he built and ran a campground and recreational park in Wentzville, Mo. He is now fully retired and living in St. Charles, Mo. The Grimms have five children (including **Robert J. Grimm**, ME'68), 14 grandchildren and 11 greatgrandchildren.

Vernon T. McGhee, MinE: "In 2005, I attended both OGS and Homecoming in Rolla, enjoyed long cruises on both the Mississippi and Danube rivers, and made a second contribution to the mechanical engineering building expansion."

1944

Robert O. Dietz, ME: "Our youngest son, age 49, died in August 2005 of natural causes. We are working to preserve and properly distribute his estate. Justine and I are both 82 years old. Outliving your children is not an enjoyable experience." Thomas J. Mazzone, ME: "I would like to say hi to all my friends, classmates and Theta Kappa Phi brothers. Milly and I are going on our third year in Auburn, Ala., after moving from Highland Lakes and Palm Harbor, Fla. We have adjusted to this city and see our sons and family often. Joe retired as a captain from Delta Airlines a year ago and lives in Auburn. How time flies. I retired 20 years ago and take one day at a time, God willing. We are doing fine." O. Morris Sievert, ME, is retired and living in La Jolla, Calif.

1947

Glenn H. Fritz, MinE, worked at Anaconda Copper Mining Co. in Butte, Mont., after graduation. He worked in sales until his retirement. Fritz feels lucky to be "going strong at 86."

1949

Paul H. Greer, EE: "My wife, Carolyn, and I enjoyed our 60th wedding anniversary last October, I enjoy the successes of the UMR Solar Car Team in the crosscountry races. Keep up the good work!"

John J. Mulligan, GGph: "Back in action after a quadruple bypass operation in February 2005 and was appointed a 'director emeritus' by the Alaska Miners Association at its November meeting."

1950

Aaron J. Greenberg, CE: "Enjoyed seeing some of my classmates at the 55th reunion, especially Andy Andreasen, CE, and Ralph Wolfram, EE. The new Havener Center is wonderful!"

1951

John W. Brillos, ME: "Still waterand snow skiing, traveling and enjoying life."

Loren Hargus Jr., ME: "Retired from CertainTeed Saint-Gobain 14 years ago and loving it."

1958

Jim Sturdy, ME'58, sends greetings from Kirkwood, Mo. He retired from Diebold as manager of mechanics. During his career, Sturdy worked on the mechanics of ATM machines, card readers and printers. He lost his first wife in 1998, and later married Barbara.

1960

Kenneth D. Jobe, GGph, CE'66, is very involved in his community, Virginia Beach, Va., serving as president of both the Croatan Civic League and the Council of Civic Organizations. Jobe is also a member of the inlet dredging committee for the city's department of public works and is the chief elections official for one of its precincts.

John H. Miller, CerE: "I am moving my home and business to the Denver area to be closer to my family and clients."



Alumni gather in Flagstaff, Ariz.

Hampered somewhat by no snow, the group had a great time site seeing and visiting with one another. The photograph above was taken looking out over Sedona, Ariz. Pictured, left to right, are young-at-heart White Star Sigma Nus: Harry "Gene" Kennedy, ME'51, of Green Valley, Ariz.; Jack Guth, CE'50, of Jerome, Ariz.; Bill Hallet, MetE'55, of Tucson, Ariz.; John Brillos, ME'51, of Ste. Genevieve, Mo.; Joe Gray, GGph'54, of Fort Worth, Texas; and Carl Zerweck Jr., CE'50, of St. Louis.

Larry E. Farmer, CE, was elected to the board of directors of Global Industries Ltd.

1963

Pravin A. Patel, ME, is working as managing director of Patel Furnace & Forging Pvt. Ltd. in Baroda, India. The company is looking for manufacturers who are interested in a joint venture for a new range of shot blasting machines. If interested, email Patel at patelf@satyam.net.in or visit www.pshotblast.com.

1965

Robert L. Keiser, EE, was recently elected to the board of directors of Cabot Oil & Gas Corp. Dennis E. Schwieger, ME, has joined The GSI Group as president of the grain division.



Richard P. Vogelpohl, ME, retired from Continental Airlines after 28 years of flying.

1968

Ken Link, ChE: "After graduation, I became a professional musician, which I define as getting paid for playing music. Actually, I was drafted and, after basic training, was assigned to an Army band where I was a trumpet player. Now living in Dallas, I am a fee-only money manager and financial planner."

Billy F. Farrar

Jr., PetE,

(at left)

joined Reef

Exploration

engineering

Inc. as its

reservoir

manager.

1969



Joseph W. Stahl, Math, MS CSci'72, writes about Civil War soldiers and has had articles published in *The Washington Times*, *Gettysburg Magazine*, and *The Military Collector* and *Historian*. He is planning for retirement.

1970

Steve Carey, CE, retired as director of the Franklin County Highway Department in Union, Mo., after more than 27 years with the county.



G.D. "Jay" Degen Jr., EE, (*at left*) joined Reef Exploration Inc. as its new drilling operations manager.

Russell L. "Russ" Nekorchuk, MS CSci: "Now that my wife and children all have their degrees, I have retired from my 30-plus year career in data processing. My wife and I moved to Gainesville, Fla., and I have been accepted as a graduate student at the University of Florida to pursue a Ph.D. in linguistics."

Andrew Polcyn, ME, MS CE⁷5, is the chief executive officer of Advance Environmental Associates (AEA), a St. Louis environmental consulting firm that was recently acquired by Geotechnology Inc. Polcyn is

(continued on the next page)

Elmo

Golightly



Scenes from last century

Rolla's John Powell, '47, submitted this photo of the class of 1906. Pictured front row, third from left, is Powell's father, Frank B. Powell, MinE'06. Pictured back row, fifth from left, is Elmo Golightly Harris, namesake of UMR's landmark building, Harris Hall. Harris served as director of MSM from 1891-93.

Down by the river

Nelson Weber, ME'62, spent his career working on space-age projects for McDonnell Douglas and Boeing. Of late, though, he's been more interested in a paddlewheel steamboat built in 1879.

The *Montana* was one of the largest paddlewheel steamboats to roam the Missouri River, until it hit a bridge between the Missouri towns of St. Charles and Bridgeton in the 1880s. Now the *Montana* is sunk in the muddy waters on the Bridgeton side of the river and is visible during low waters.

Weber told the *St. Louis Post-Dispatch* that his love affair with the *Montana* began in 1967, when he read an article about the wreckage. Last year, the Missouri was so low that Weber, now retired, was able to map out large portions of the *Montana*. He took photos, took measurements and drew diagrams.



Jones makes impact

After retiring from a 38-year career in computer science and

information systems, **Jack Jones**, Phys'62, set out to achieve a new goal – writing a suspense novel that included elements of his work.

In Jones' newly published *Impact with Intent*, the main character, John Thomas, has a passion to prove his theory of "intent," or why people do what they do. With the ability to see things other people don't tend to notice, Thomas is taken on assignments around the globe as he pursues a dream that could change the world.

Impact with Intent is available online at www.impactstories.com or in bookstores.

alumni notes

lending his environmental regulatory expertise to Geotechnology and serving as principal engineer.

1971

Eugene H.A. Haberl, ME:

"I retired from Anheuser-Busch in January after almost 33 years. I'm enjoying retirement, catching up on many deferred projects, enjoying more leisure travel, and spending more time with our grandson."

James W. Hooper, MS CSci,

retired from Marshall University in Huntington, W.Va., in 2004 and is currently Weisberg Professor emeritus. He and his wife, Mona, live in the Birmingham, Ala., area near their children and grandchildren.

1972

James Gantt, MS CSci, spoke about military communications research issues at the Institute of Electrical and Electronics Engineers' Globecom 2005 in St. Louis in December. Randall O. Thomure, ME, was recently named vice president of product line marketing for Trinity Rail.

1973

Thomas J. DePauw, CSci, is marketing manager for Caterpillar's financial services division

Vince Felchle, MS CSci: "I officially retired from Texas Instruments in 2004 after 31 years of service in the information technology field. I am now working part time as a

wine consultant in a winery in downtown McKinney, Texas, about 30 miles north of Dallas. I maintain the owners' website and help educate customers on the Texas wine industry."

William L. Lane, Math: "My oldest daughter followed her father's lead and graduated from the University of Missouri-Columbia with a master's degree in statistics."

Wesley S. Watkins, CE, was named to lead Michael Baker Corp.'s Gulf Coast Enterprise Initiative that focuses on aiding the region in recovery from devastating hurricanes. He was also promoted to senior vice president and area manager of Baker's Mexico operations in Mexico City. Watkins will continue as Baker's national pipeline practice director.



Ioan Woodard. Math, (at left) was the keynote speaker at the Institute of Electrical and Electronics Engineers'

Globecom 2005 in St. Louis in December.

1974

Gene Addison, Chem: "I have been at Rutland Products for almost two years now. I am a chemist and do research and development, quality control, environmental, safety and technical customer service. I would love to hear from fellow chemists of the classes of '74 and '75, as well as my compadres at the BSU from '71-'74."

iture miners



Susan (Koeller) Adams, GeoE'96, and her husband, Timothy, had a girl, Hannah Lee, on July 30, 2005. She joins brothers Tyler and Connor.



J. Ashley Govero, EMgt'97, and his wife, Laura, had a girl, Abigail Grace, on Nov. 28, 2005.



Steve Jenks, ChE'99, and Crissie (Eckhoff) Jenks, ChE'99, had a girl, Catherine Lily, on Oct. 27, 2005. Her aunt is Ellie (Eckhoff) Dudley, EE'02.



James Klotz, EE'99, MS EMgt'02, and Kate (Carter) Klotz, Psyc'02, had a boy, Mason James, on April 4, 2005. He joins brother Carter, 2. The boys

follow a long line of Miners, including their aunt Rachel Carter, BSci'03, MS ABio'05; grandparents John, GeoE'77 and Wendy (Scott) Carter, Hist'75; and great-grandfather James J. Scott, MinE'50

Kirk Alan Meinershagen, ChE'96, and his wife, Rachel, had a girl, Sabrina Avery, on July 3, 2005. She joins brother Ethan, 3.



Richard Siebenman, GeoE'77, and his wife, Joy, had a boy, Richard Barry III, on Feb. 8, 2005. He joins sister Sara, 4

Shawn Christopher Steen, Psyc'94, and his wife, Christina, had a girl, M'Lynn, in January 2006.



If you have a birth announcement or a photo of your new little Miner, send it to us and we'll publish it in an upcoming issue, Email: alumni@umr.edu

> Stoltz, Engl'95, and her husband, Bill, Engl, had a girl, Emma, on Nov. 26, 2005. She joins a family of Miners, including

grandfather William A. Stoltz, EMgt'68; great-grandmother Oma Carnahan, Engl'72; and greatuncles Gene McFarland, Econ'70, and Dan Amsinger, ME'75



MinE'00, and Nichole (Sloan) Williams, CerE'99, had a boy, Talan Scott, on Nov. 9, 2005. He joins sister Riley, 2.

Thomas W. Barkalow, NucE:

"I am the senior safety person for two Department of Energy scientific user facilities operated by Argonne National Laboratory. The Advanced Photon Source is the DOE's largest user facility and the Intense Pulsed Neutron Source remains the DOE's most productive neutron generating facility. This position is generating lots of challenges."

1975

Jerry D. Higgins, MS GeoE, PhD GeoE'80, received the Ivan B. Rahn Education Award from the Society for Mining, Metallurgy and Exploration for distinguished contributions to the society's educational activities.

1978

Virgil V. Work Jr., EMgt:

"I have released my latest CD, 'The Phases.' It is a comprehensive musical odyssey that incorporates a variety of styles, including jazz fusion, smooth jazz, funk, house, hip-hop and orchestral. Check my website at www.cdbaby.com/ all/vvwork. Are there any praise dancers out there? 'Get Your Praise On' is the song for you!"

1979

Dennis T. Dressel, ME: "My family and I are doing great in Ponchatoula, La., relative to others. We were spared from Hurricane Katrina's wrath. Our children's educational expenses are mounting up. Aaron, 18, is in college; Chelsea, 16, is in high school; and Ashley, 14, is in elementary school. Please keep the hurricane victims in your prayers."

Kathy Harvey, CE, was appointed by the Missouri Department of Transportation as the new state design engineer.

1980

Bob Feldmann, MS CSci'80, has been named program manager for both the AV-8B and T45TS programs at Boeing Corp. The T-45 Training System, or T45TS, is the first totally integrated training system developed for and used by the U.S. Department of the Navy. As prime contractor, Boeing's responsibilities are the assembly and delivery of the T-45 Goshawk jet and support of fleet maintenance and groundbased training.

Karen M. Herbert, ChE: "I've visited Australia – not sure how we got our new department chair from that beautiful country. Sydney is the best city in the world. I would love to get in an MS ChE program there or Queensland. Say hello to Crosser and tell him I am teaching college now."

1982



from the St. Louis Chapter of Missouri Society of Professional Engineers in February He also received an ASHRAE Technology award for air conditioning design.

Pamela S.

Cole, PetE, (*at left*) was installed as the first female president of the Engineers' Club of St. Louis. Donna Kay

(Parks) Ratkowski, Chem: "I now work for Afton Chemical Corp. in Sauget, III. Same job, new name." Eric Glynn Politte, ME: "We now have four operating divisions and all are doing well. We've been working with incident response and project management for the parish hardest hit by Hurricane Katrina. Amazing devastation."

(continued on the next page)



With a geisha in Kyoto, Japan

Pictured left to right: Linda (Voellinger) Harrell, CerE'88; her husband Russ Harrell, MetE'86; Hamid Naseri, EE'81, MS EE'89, PhD EE'96; and his wife Behnaz Mahbod Naseri, Econ'91, ChE'96. The Harrells and the Naseris live in Kobe, Japan, and work for Caterpillar Shin Mitsubishi.

Douglas and Chellee Niermeyer and daughters Elayna, 7, and Madison, 5, with President Bush at the White House.

Family tree research leads to White House

Douglas Niermeyer, CerE'89, took his family to the White House last February.

They weren't tourists; they had invitations. Niermeyer and his family were invited to a program about Abraham Lincoln and a reception with President George W. Bush and First Lady Laura Bush.

Niermeyer is the Commander-in-Chief for the Military Order of the Loyal Legion United States (MOLLUS), a hereditary organization of descendants of Union officers from the Civil War. MOLLUS, which is similar to other hereditary organizations like the Daughters of the American Revolution, was founded on the day Lincoln died, April 15, 1865.

Initially, the invitation to the White House was only for Niermeyer. But, he says, three spots opened up at the last minute, and he was able to take his wife, Chellee, and daughters, Elayna, 7, and Madison, 5.

About 15 years ago, Niermeyer started researching his family tree. "I saw that I had a great deal of information on my family from many time frames, with interesting stories from the Civil War – officers on both sides," says Niermeyer, who joined MOLLUS in 1995.

Niermeyer works as head of quality assurance and engineering at Fairlane Industries Inc. in St. Louis.

Douglas R. Barlet, MinE, MS MinE'86, lives with his wife Suziee and 5-year-old son Douglas Riley in Pleasanton, Kan. Barlet works as a collision reconstructionist for McKinzie & Associates. Max Brown, PhD GGph, presented the results of his Ozarks geological mapping work at the Geological Society of America meeting in Salt Lake City in October.

Sharon M. Hollar, EMgt, MS EMgt'85: "My son, Adam, is now a second-year student at the Medical University of South Carolina School of Pharmacy," Martin Mark Nash, MetE: "Karen and I moved to Olathe, Kan, in May, 2005. Great to be back 'home." William Watson, ME, has joined The GSI Group as vice president of worldwide engineering.

1984

Becky Baltz, CE, EMgt, is the district engineer for the Missouri Department of Transportation's southwest district, based in Joplin. Jada D. Reese, ME, has been appointed vice president of human resources for CPI Corp.

1985

Rodney Larson, MS CerE, has been named president of ophthalmic lens processing for Gerber Scientific Inc, Prior to joining Gerber, Larson worked for Key Technology Inc., Dow Chemical Co., Rogers Corp. and FMC Corp. In addition to a master's degree from UMR, Larson has a master's degree in business administration from Stanford University and a bachelor's degree in chemistry from Arizona State University.

Nancy Jayne (Elfrank) Nethington, GGph, and her

husband **Dennis R. Nethington**, Hist'72, GGph'82, MS GGph'85, report their daughter, Amy, is now in the Air Force studying Arabic at the Defense Language Institute in Monterey, Calif. She is training to become an airborne cryptologic linguist.

1986

Rowdy Smith, NucE, joined Arch Coal Sales as regional vice president of sales for the Ohio River Valley and Upper Midwest.

1987



Robert Fritz, CE, (at left) was selected by the Associated General Contractors of St. Louis

to serve on its 2006 board, representing the contractor members of the AGC.



S. Keith Hargrove, MS EMgt, (*at left*) is completing a one-year Harvard University Fellowship

for future administrators in higher education. Hargrove recently served as chair of the industrial, manufacturing and information

weddings

Michael Brendlinger,

MetE'94, married Robin Heffron on Oct. 1, 2005. The couple lives in Portage, Mich.

Andrew Copeland, Econ'04, EMgt'04, and Jessica Vitello, BSci'04, were married on Oct. 1, 2005. The couple lives in Gardner, Kan.

Joe Dudley, EMgt'02, and Ellie Eckhoff, EE'02, were married on April 30, 2005. The couple lives in Olive Branch, Miss.

Donald R. Fosnacht, PhD MetE'78, recently married Laurie Ann.

Vanessa Goodwin, ChE'99, married Humberto Zapata in October 2005, The couple lives in Houston, Michael Hunter, Math'99, married Sheila Sylvester on Jan. 7, 2006, in Hayward, Calif.

Brian Michael Jones, CE'98, married Sherri Kristine Thole on Nov. 12, 2005.

Scott Allen Moll, ChE, married Krista in June 2005.

Ryan Joseph Parish, CSci'05, Math'05, and Melissa Kae Veit, IST'05, were married on Jan. 7, 2006.

Brent Victor Pfeiffer, CE'03, married Susan Lynn Sciortino on Sept. 24, 2005. The couple lives in Jackson, Mo.

Benjamin Powelson, CE'01, and Kristen (DeFilippo) Powelson, CE'02, were married on Oct. 15, 2005. The couple lives in St. Louis. Vic Ratkowski, EE'78, and Donna Kay Parks, Chem'82, were married in April 2004.

Jennifer Remley, CerE'97. MS EMgt'04, married Jason Boyd on Oct. 15, 2005. Jennifer is the daughter of Richard Remley, ME'73, and the granddaughter of the late Donald G. DeBolt, EE'49. The couple lives in St. Charles, Mo.

Kenneth Howard Talley,

EMgt'98, married Jennifer Carol Freeman, on Sept. 24, 2005. The couple lives in St. Charles, Mo.

Theodore Joseph Vandeven Jr., ME'98, married Jennifer Lyn Lambert on Feb. 18, 2006. The family also includes Alexander James Lambert, 8, and Nathaniel James Lambert, 5.

Douglas "Trent" Weaver,

If you would like a wedding announcement published,

please email it to: alumni@umr.edu

MetE'97, PhD MetE'01, married Renee Stoetzer on Sept. 17, 2005. The couple lives in Lancaster, Ky.

Richard Denson Words, MSys'00, married Marcie Lynn Harrison in November 2005. The couple lives in Moline, III.



Kenneth and Jennifer Talley



engineering department at Morgan State University in Baltimore, Md.

1988

Max F. Middendorf, CE, was promoted to vice president with MECO Engineering Co. He will also serve on the company's board of directors.

1990

Claudia Christa Scheer, CE:

"I moved from Little Rock, Ark., to Washington, D.C., in November 2005. I'm enjoying the new job as national hydraulic engineer for the Natural **Resources Conservation Service** within the USDA and still very much enjoying government service. I'm even adjusting to the commute."

1991

Jennifer Kay Diskin, MetE, is the manager of quality reliability at Olin Brass

Tim Newkirk, EMgt, was named chief operating officer of MGP Ingredients Inc. in April. MGP develops and produces natural grain-based products. Newkirk is responsible for overseeing operations at the company's Atchison, Kan., and Pekin, Ill., plants. Previously, Newkirk was chief operating officer of Abengoa Bioenergy Corp. and vice president of operations for High Plains Corp., an ethanol production company.

Jamie Page, CE, is director of the department of public works in Hannibal, Mo.

Steve Roberti, GeoE, MS GGph'92, and Melanie Schales Roberti, MS GGph'92, live in Keystone Heights, Fla. Steve is with CH2M Hill Inc. in Jacksonville and Melanie teaches part time in the geology department at Santa Fe Community College. She also substitute teaches at their children's schools (Maria, 12; Sam, 9; and Lily, 6).

1992

Philip Ling, ChE "Just moved to London for a three-year assignment within Shell Oil's supply department, working in their crude supply group, evaluating crude purchases and refinery economics."

1993

Jon Michael Gibbs, PetE: "Amy and I moved to Solvang, Calif. I am now the operations superintendent for ExxonMobil's California operations."

Jeffrey White, MS CSci: "I recently passed two exams to become a Sun certified system administrator for Solaris 10 OS. My family is doing well. My son, Spenser, is 8, loves English and is asking many questions about how things work. My daughter, Whitney, is 7 and is becoming a math whiz."

1994

Greg Effland, CE, and his wife, Sarah, live in Lee's Summit, Mo., with their daughters Hannah, 4, and Madison, 13 months. Brian E. Haggard, LSci, was recently recognized by the Agricultural Research Service for his outstanding research evaluating nutrient sources and transport from the landscape through aquatic ecosystems.



Luther College in Decorah, Iowa. Shawn Christopher Steen, Psyc, works as the family advocacy program manager at Fort Leonard Wood, Mo.

1995



Johnson, ME, (at left) a senior attorney at Fox Galvin LCC, has been named chair-elect of the

National Bar Association Young Lawyers Division and will serve as chair in 2006-2007.

Mitzi McIntyre, CE, was one of the judges for the Intermountain Contractor Best of 2005 competition. She is executive director of the Utah Chapter of the American Concrete Pavement Association.

Thomas Michael "Mike" Ruth, EMgt, is director of business operations for Aquila's Colorado

Electric Division in Pueblo, Colo.

1996

Mark A. Crawford, ME, MS ME'98, with his wife, La'Tonya, has launched MySpendingPlan.com, a website that sells software the couple created to help manage finances.

Teresa "Terri" Marvich, GeoE, joined PSI as a client manager in the firm's office in Kennesaw, Ga. Christina Anne Steck, EMgt, was selected as a fellow of the St. Louis chapter of the Association of Fundraising Professionals for 2006 and 2007.

1997

Brian David Booth, CSci, MS IST'05, is chapter advisor of the Epsilon Nu Chapter of Delta Tau Delta at UMR

Jennifer (Remley) Boyd, CerE, MS EMgt'04, is an engineer at Cutting Edge Optronics in St. Charles, Mo.

Ryan Dee Saffels, CE, lives in Harrisonville, Mo., with his wife, Wendy, and four children: Mason, 10; Anna, 5; Mallory, 3; and Nicholas, 1.

(continued on the next page)

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Andrew Copeland, Econ'04, EMgt'04, andvc@arjinfusion.com

Jessica (Vitello) Copeland, BSci'04, jcopeland@kumc.edu

Robert O. Dietz, ME'44, juddrod@lcs.net

Jennifer Kay Diskin, MetE'91, jkdiskin@olin.com

Sharon M. Hollar, EMgt'83, MS EMgt'85, smhollar@msn.com

James W. Hooper, MS CSci'71, hooper@marshall.edu

Scott Allen Moll, ChE'99, scott.moll@tateandlyle.com

Eric Glynn Politte, ME'82, egpolitte@rmaworld.com

Kristen (DeFilippo) Powelson, CE'02, kristen.powelson@fmglobal.com

Donna Kay (Parks) Ratkowski, Chem'82, donna.ratkowski@aftonchemical.com

Ryan Dee Saffels, CE'97, rsaffels@uam-llc.com

Rosanna "Anna" M. Saindon, GeoE'99, MS GeoE'01, PhD GeoE'04, rmsain@yahoo.com

Claudia Christa Scheer, CE'90, claudia.scheer@wdc.usda.gov

Shawn Christopher Steen, Psyc'94, shawn.steen@us.army.mil





NFL Miner

Brett Fischer, EMgt'05, Econ'05, the standout wide receiver for the UMR football team over the last four

Brett Fischer

seasons, signed a free-agent deal with the Detroit Lions of the National Football League. Fischer earned honorable mention status in the Mid-America Intercollegiate Athletics Association following the 2004 season as a member of the Miners, when he established several receiving records during that year.

He caught 72 passes for 1,040 yards and seven touchdowns in 2004 to finish fourth in the MIAA in receptions and second in receiving yards per game. The marks were school records at the time, but were broken by current Miner **Ashton Gronewold** during the 2005 campaign. Fischer finished his career with 155 catches (second all-time at UMR) for 1,976 yards (first all-time) and 13 touchdowns.

Fischer will join the Lions for their training camp at the Lions' training complex in Allen Park, Mich., in July.

1998

Anika Careaga, CE, is a certified professional of erosion and sediment control and a certified professional of storm water quality. She is a project manager for Midwest Environmental Consultants.

1999



G. Scott Green, ME, recently joined Tarlton Corp. as a mechanical, electrical and

plumbing project engineer. Tarlton is a St. Louis-based general contracting and construction management firm. Scott Allen Moll, ChE, works in central Illinois and would like to be contacted if anyone is in the area.

Rosanna "Anna" M. Saindon, GeoE, MS GeoE'01, PhD GeoE'04, is working at Weaver Boos Consultants in its new St. Louis office.

Vanessa Goodwin Zapata, ChE, earned a master's degree in business administration from the University of Houston in May 2005. Zapata received the Outstanding Student Award in a class of about 200.

2000



Sam Lee Petty, EMgt, and Erica (Bobo) Petty, MetE'01 (pictured above with their son Jayson): "We have relocated to Phoenix. I am employed with PepsiCo Foods & Beverages as a production supervisor and Seven-Step Champion. Our facility is the world's largest producer of Gatorade. Erica works for the Arizona Department of Environmental Quality as a project manager. We are blessed with a 2year-old son named Jayson Petty – a future Miner!"

2001

Benjamin Powelson, CE, and Kristen (DeFilippo) Powelson,

CE'02, moved to Melbourne, Australia, in February for a 12month assignment with Kristen's company, FM Global, a commercial and industrial property insurance company. She will continue her job as a consultant engineer, visiting customer facilities in Australia and New Zealand.

2003

John Tierney, ChE, and Melinda Tierney, BSci, graduated from the University of Tennessee in December. John received a master's degree in chemical engineering and Melinda completed the genome science and technology program to earn a master's degree in life science. John has accepted a position as a process engineer with Lafarge North America in Davenport, Iowa.



When **Mehrdad Khorramian**, CE'84, emigrated from Iran, he immediately started to work as a dishwasher for McDonalds – not to make money, but to learn the language and culture of America. In 1985, he moved west to Southern California, where he ran a trio of local burger restaurants.

Six years later, a recruiter for Taco Bell offered Khorramian a position running a store in Los Angeles.

After armed robbers threatened him and made off with all of his money on Dec. 31, 2002, his life fell apart, leaving him depressed and dejected for months. One day, Khorramian decided to devote his life to God, his family and making his Taco Bell restaurant the number one store in the chain. He told the *Los Angeles Daily News* that his strategy was simply to set a good example for his employees. He talked to customers, learned their names, and even bused empty trays himself.

Khorramian's store, 40 years old and worn around the edges, doesn't look that much different from any other Taco Bell. It's the quality of service that sets it apart.

In just one year, through friendly service and extreme dedication, Khorramain converted his store to the top-ranked Taco Bell in the entire chain.

Army Capt. Mark R. Allen, MS EMgt, assumed company command of Alpha Company, 3rd Brigade, Special Troops Battalion, in Oahu, Hawaii, in January. Andrew Copeland, Econ, EMgt, and Jessica (Vitello) Copeland, BSci, live in the Kansas City area. Andy is director of operations for ARJ Infusion Services, a home health care company that specializes in bleeding disorders, immune deficiencies, and neurological disorders. Jessica is a graduate student working toward a doctorate in pathology and laboratory medicine at the University of Kansas Medical

School. She is in her second year and hopes to graduate in 2008 or 2009, after which she would like to teach

Sondra N. Terry, (at left) ArchE, recently joined Tarlton Corp. as a project

engineer.

2005

Andrew T. Christoff. CE. recently joined Clayco as a project engineer in the St. Louis office.

Army Capt. Robert Graetz, MS CE, is working in Baghdad, Iraq, as sewers project manager for the 4th Brigade Combat Team Infrastructure Coordination Element. This four-man team is working with the local Iraqi government to ensure the restoration and improvement of city systems.

William "Ford" Roes, MinE, became his family's third generation of UMR graduates this past December. His father is

Theodore A. Roes III, CE'70, and his grandfather was the late Theodore A. Roes Ir., MinE'36. Ford is also the grandson of the late Jo Barr, former UMR history and economics professor, and the

son of K.T. (Barr) Roes, a former

UMR student.

Raise a buck to help the team muck

Members of the UMR Mucking Team have created two T-shirt designs to help raise funds for the international intercollegiate competition in Kalgoorli, Australia. Both the men's and women's teams placed second in this year's event. T-shirts are \$10 each (plus \$2.50 shipping and handling) and are available in adult sizes small to XXX large. To place your order, call Barbara Robertson at (573) 341- 4753.

My Mascot Carries A Gun...



UMR alumni relay team from Kansas City, left to right: Steve Kerr, Tyler Vrooman, Dan Bailey, Charles Pirkle, Josh Sales and Charles Strauss.

Tuesday runs in KC

On Tuesdays, Dan Bailey, GeoE'03, MS EMgt'03, likes to go on runs with his college buddies. Bailey, Steve Kerr, EE'03, and Tyler Vrooman, CpE'03, ran track together at UMR. "We graduated at the same time and all ended up working in Kansas City," Bailey says. "Since we started running, we've been finding other UMR graduates in the area and inviting them along with us on Tuesdays."

This spring, the group entered a team relay race from Kansas City, Mo., to Lawrence, Kan., a distance of 44 miles. The race raised money for the Cystic Fibrosis Foundation. Each member of the team ran between four and 10 miles.

UMR graduates who participated included Bailey, Kerr, Vrooman, Charles Pirkle, EE'84, Josh Sales, GeoE'00, and Charles Strauss, CE'01.

Technically speaking, **Reed advises Bush**

President Bush has appointed Daniel Reed, CSci'78, to the President's Council of Advisors on Science and Technology (PCAST).

PCAST advises the president on technology, scientific research priorities, and math and science education.

"I am honored to be named to this prestigious council and I look at it as a chance to help our country realize its boldest dreams," says Reed, who is Chancellor's Eminent Professor and vice chancellor for information technology at the University of North Carolina at Chapel Hill. He is also director of the Renaissance Computing Institute.





policy for publishing in UMR Magazine

- · We are happy to announce weddings, births and promotions, after they have occurred.
- · We will mention a spouse's name if it is specifically mentioned in the information provided by the alumnus/alumna.
- . The UMR Magazine will announce deaths, if information is submitted by an immediate family member, or from a newspaper obituary. Notification of deaths that have occurred more than two years before the date of publication will not be published unless a special request is made by a family member.
- · Obituary information on alumni spouses will be printed only if the alumnus/alumna specifically requests that we print it.
- · We will print addresses if specifically requested to do so by the alumnus/alumna submitting the note.
- We reserve the right to edit alumni notes. to meet space requirements.
- We will use submitted photos as space permits.

1939



Thomas J. Finley,

MetE, was a member of Kappa Sigma while attending MSM-UMR. He worked

for Washington Steel Co. in Washington, Pa., as general sales manager until his retirement. in 1988. Mr. Finley was a member of the Order of the Golden Shillelagh. †Dec. 15, 2005

1941



William M. Puetz. ME. was a member of Tau Beta Pi and Army ROTC while attending MSM-

UMR. He lived in Falls Church, Va., for more than 40 years and retired from the U.S. Army, Mr. Puetz served during World War II and the Korean conflict, †Dec. 18, 2005



Michael A. Scheriff, MinE, was a student assistant in the mining engineering

department while attending MSM-UMR. He worked for General Chemical in the 1950s. †Oct. 4, 2004



Shankland, MinE. owned and operated Advance Business Corp.

John H.

in Brookfield, III., for many years. †March 16, 2004

1942



McConnell, MinE. Sigma Nu and the

while attending MSM-UMR. He served in the U.S. Air Force for four years during World War II. Mr. McConnell

worked for Argonne National Laboratory for 26 years and Baldwin Association in Clinton, Ill., for 10 years. †June 6, 2005



Frank O. Suessdorf, ChE, was a member of Alpha Chi Sigma and AIChE while attending MSM-

UMR. He retired from Amoco Oil Co. in 1985. +July 31, 2005



Otis H. Taylor, CE, was a member of Sigma Nu while attending MSM-UMR. He was a captain in the

Army Air Corps during World War II and worked for 35 years as an industrial sales engineer for Goodyear Tire & Rubber Co. tJan. 14, 2006

1943



John A. Mazzoni, ME, portrayed St. Pat in 1942 and was a member of the Rollamo board, Triangle

and the St. Pat's Board while attending MSM-UMR. He served as a first lieutenant in the U.S. Air Force during World War II and retired from Ceolass Co. tMarch 3, 2005

1944



Philip M. Dampf, MetE, was a member of Phi Kappa Theta and Tau Beta Pi while attending MSM-

UMR. He served in the U.S. Navy during World War II. Mr. Dampf retired from Foote Mineral/ Chemetals Erachem in 1988. †Dec. 16, 2005



Kenneth W. Schoeneberg. CE, MS CE'48,

was a veteran of World War II and worked in the

railroad industry for 30 years. He retired from the Association of American Railroads in Chicago 22 years ago and was a member of the UMR Academy of Civil Engineers. †Jan. 10, 2006



William I. Thomas, ME, was a member of Phi Kappa Theta while attending MSM-UMR.

He was a test engineer with Rockwell International for 23 years. †Jan. 13, 2005

1947



Willis H. Harville, ME, was a member of ASME and played intramural sports while attending

MSM-UMR. He was a pastor for many years, †Nov. 3, 2005



Frederick G. Mertens, CerE, was a member of Phi Kappa Theta while attending MSM-UMR.

He served in the U.S. Navy during World War II and retired in 1981 from Kaiser Refractories as superintendent of raw materials. tNov. 29, 2004

Norman O. Rankin, CE, was a member of Sigma Nu and captain of the basketball team while attending MSM-UMR. He retired in 1979 after 30 years with the Federal Highway Administration in Jefferson City, Mo. †Dec. 13, 2005







William F.

was a member of Rollamo board





Billy B. Ray, ME, was a member of the Independents. and Tau Beta Pi while attending MSM-UMR.

He retired from General Motors in 1988. †May 29, 2005



Donald E.

Rhoads, CE, was a member of ASCE and was on the Honor List while attending MSM-

UMR. He retired in 1985 from Byron Jackson Pump Division of Borg Warner. †Dec. 27, 2005



Wilden "Durward"

Rodden, EE, was on the Honor List while attending MSM-UMR. He

served in the U.S. Army Air Corps during World War II in India and China. Mr. Rodden retired from IBM after many years. His passion was singing and he enjoyed teaching Sunday school. †Jan. 6, 2006

1949



Thomas J. Burke. MetE, MS MetE'50, was a

member of Sigma Phi Epsilon while attending MSM-

UMR. He served as an Army medic during World War II and designed nuclear fuel for Navy submarines and atomic power plants. †Aug. 3, 2004



Charles F.

Eichelberger, EE, was a member of Phi Kappa Phi and the Engineer's Club while

attending MSM-UMR. He served as a radar officer in the U.S. Marine Corps in the South Pacific during World War II. Mr. Eichelberger was the first

superintendent of the UE Taum Sauk pumped storage power plant beginning in 1962; he retired from the company's systems planning department in 1988. †Dec. 16, 2005



He worked for the U.S. Federal Highway Administration for many years. †Feb. 26, 2004



Wundrack, EE, was a member of the Independents, the Student Council, the choir

and the orchestra while attending MSM-UMR. He served in the U.S. Navy during World War II and retired as lieutenant commander after 20 years of active and reserve service. Mr. Wundrack retired in 1992 as vice president of Sverdrup Corp. after 42 years with the company. He served as mayor of Sunset Hills, Mo., and was a Boy Scout leader and Red Cross volunteer, †Nov. 28, 2005

1950

Perry D. Duncan

ME, was a member of Army ROTC, ASME, Tech Club and the Independents

while attending MSM-UMR. tlan, 20, 2004



attending MSM-UMR. He retired from R.B. Potashnick & Co. in Cape Girardeau, Mo. †Feb. 9, 2005



George R. Lay. CE, was a member of Chi Epsilon and the Photo Club while attending MSM-UMR, He

retired from McDonnell Douglas Corp. †Sept. 23, 2004



David H. MacDonald, ChE. was a member of Tau Beta Pi and Alpha Phi Omega

while attending MSM-UMR. He served in the U.S. Navy during World War II and the Korean conflict. Mr. MacDonald earned his MBA from Southern Illinois University and worked for Monsanto Chemical Co. for 30 years. He was very involved in his community, serving, on the school board, leading 4-H clubs and substitute teaching after retirement. †Jan. 8, 2006

Daniel M. Rodriguez Hoyle,

GGph, was on the Honor List for four years and was a student assistant in the mining department while attending MSM-UMR. He was vice president of Southern Peru Copper Co. in Lima, Peru, †Jan. 20, 2006





MinE, served in the U.S. Army Air Corps, won top honors in the Army Air Force Training Command Fixed Gunnery

Van S. Brokaw,

Competition, and was awarded the Air Medal and six Oak Leaf Clusters. He retired as a lieutenant colonel from the Air National Guard in 1971 and retired from Allis Chalmers in 1985. tJan. 25, 2006



Roger E. Klein, EE, was a member of AIEE while attending MSM-UMR. He retired from McDonnell

Douglas Corp. †May 17. 2005

Jim Pogue, professor emeritus of English

Dr. Jim C. Pogue, professor emeritus of English, died Saturday, April 29, at age 76.

Pogue joined UMR in 1964 as professor of English and chair of the department of humanities. He served as director of the division of liberal arts from 1969-1970 and acting



dean of faculties from 1973-74. In 1974 he was named dean of faculties, a position he held until 1978, when he was named provost. He served as interim chancellor from 1977-78.

Pogue returned to the English faculty in 1980, teaching courses in technical writing and literature and pursuing his expertise in the English Renaissance and the dramas of William Shakespeare. He served as advisor to Student Council and as faculty advisor to his fraternity, Kappa Alpha.

In 1972, Pogue was named Outstanding Educator of America. He was listed in the 1972-73 edition of Who's Who in America and in the 1969 Dictionary of American Scholars.

In 1978, the University of Missouri Board of Curators honored Pogue with a Resolution of Appreciation. That same year, he received the Alumni Merit Award from the MSM-UMR Alumni Association.

In 1979, Pogue received the Distinguished Alumnus Award from Emporia State University, where he received bachelor of science degrees in English and French in 1955 and a master of science degree in English in 1956. He earned a Ph.D. in English from the University of Missouri-Columbia in 1964.

Prior to joining the UMR faculty in 1964, Pogue held positions at Wayne State College, UMC, and Emporia State University. He retired from UMR in 1992.

lames B. Hufham

James Birk Hufham, associate professor emeritus of biological sciences, died April 30, 2006, after a long illness. Hufham was born in 1935 in Colonial Heights, Va. He earned a bachelor's degree in bacteriology and chemistry from the University of Alabama. He earned a master's degree and Ph.D., both in microbiology, from the University of Nebraska.

At UMR, Hufham taught courses in biology, microbiology, zoology and genetics, among other subjects. He published numerous scholarly articles and was a member of several professional organizations, including the American Society of Microbiology, the American Association for the Advancement of Science, the American Institute for Biological Science and the Missouri Academy of Science. Hufham also served on many academic committees at UMR and on the Golf Course Advisory Committee. He retired from UMR in 1996.

Sue Hufham of Rolla requests that memorial gifts be made to UMR's Gale-Hufham Scholarship in Biological Sciences in honor of her late husband.



Kenneth I. Laumand, CE, was a member of the Engineer's Club while attending MSM-

UMR. He worked for the U.S. Army Corps of Engineers in Oregon, †May 4, 2004



John R. Quick, EE, MS EMch'67, was a member of the Independents and the Radio Club while attending MSM-UMR, †March 4, 2005

1956



Lawrence E. Allen, ME, retired from Trans World Airlines in Kansas City after 36 years. He enjoyed

choir for more than 40 years. †Feb. 15, 2006

1957

35 years in the aerospace industry

1958



Lukefahr, EE, was a member of Tau Beta Pi and Eta Kappa Nu while attending MSM-

UMR. He served in the U.S. Navy during the Korean conflict and worked for Unisys for 28 years. †Feb. 26, 2004



Redfearn, MinE. served in the U.S. during the Korean

owned and operated MDM Distributors in Energy, III. †March 9, 2005



Robert M. Whitaker, EE, was a member of the Wesley Foundation and AIEE-IRE while

attending MSM-UMR. He was a veteran of World War II and worked for the U.S. Navy on the Polaris Missile program. †Dec. 3, 2005

1959



Kenneth R. Lindsey, CE, was a member of Chi Epsilon, Tau Beta Pi and Army ROTC while

attending MSM-UMR. He was group vice president for Binkley & Holmes Inc. in Houston, Texas. tAug. 17, 2005

James E. "Bud" Linn Jr., MinE, was a member of Sigma Phi Epsilon and the St. Pat's Board while attending MSM-UMR. He served in the U.S. Air Force as a fighter pilot and spent his career in various positions in the mining industry, including serving as manager of engineering and geological services for a division of Houston Industries in Texas. tDec. 2, 2005



PetE, was a

while attending MSM-UMR. He was a second lieutenant in the U.S. Army Corps of Engineers and served two tours in Vietnam. Mr. Weston earned numerous decorations during his 17-year military career, including a Bronze Star with one Oak Leaf Cluster, a Vietnam Service Medal with six Battle Stars, and an Army Commendation Medal. †Dec. 12, 2005

1960



Buddy J. Austin, EE, was a member of the Scholastic Honors Association while attending MSM-

UMR. He served in the U.S. Navy during the Korean conflict. Mr. Austin enjoyed his longtime membership in a barber shop guartet. +Nov. 29, 2005



Dr. George A. Chappell, Chem. MS Chem'62, was a member of Sigma Phi Epsilon, Alpha Chi Sigma,

Alpha Phi Omega, the Scholastic Honors Association, AIChE and Army ROTC while attending MSM-UMR. He worked for the Institute of Gas Technology and was deputy chief information officer for Textron Lycoming, after which he taught high school chemistry and science, retiring in 2002, †Dec. 18, 2005



Dr. James F. Kauffman, EE, was a member of the choir, the orchestra, Tau Beta Pi, Army

ROTC, Eta Kappa Nu, the Scholastic Honors Association and the Wesley Foundation while attending MSM-UMR. He served in the Army Reserves for seven years and worked for Westinghouse and Corning Glass before joining the faculty at North Carolina State University in 1970, retiring in 2002. Mr. Kauffman was a classically trained tenor, pianist and baritone player. He bred and exhibited English bulldogs for more than 30 years, one of which won Best of Breed at Westminster in 2002. †Dec. 12, 2005

46 UMR MAGAZINE | SUMMER 2006

singing in his church's chancel

Paul E. Ohlsen, MS Phys, spent working on top-secret projects for the military. †Aug. 7, 2004









James E. Siebels. CE, was a member of Chi Epsilon, Tau Beta Pi, ASCE, the Independents,

the Baptist Student Union and the Scholastic Honors Association while attending MSM-UMR. He worked at the Colorado Highway Department for 28 years, retiring as chief engineer in 1998, and was chief bridge engineer for CH2M Hill until 2004. †Aug. 8, 2005

1963



Tech Club while attending MSM-UMR. He worked as a manufacturing manager at several companies. +Nov. 6, 2005



Dr. Robert C. Howell, MinE, was a member of SME-AIME, Tau Beta Pi, the

Jack L. Haum,

ME, was a

member of

the band, the

Independents and

Independents, ASME, Sigma Gamma Epsilon, the Newman Center and the Scholastic Honors Association while attending MSM-UMR. He taught at the University of Kentucky in the 1970s and was senior engineer with Jim Walter Resources, †Oct. 1, 2005

1964



Ajab S. Malik. MS ChE, was a member of AIChE while attending MSM-UMR. †May 2, 2005



John B. Palmerton, Phys, was a member of the

Independents and the Scholastic Honors Association while attending MSM-UMR. After 30 years with the Corps of Engineers at Waterways Experiment Station, he started his own company, Geosynthetic Applications Simulations. Mr. Palmerton was active in his church choir and played violin with the local



symphony, †Feb. 15, 2006

Jerry D. Lee, EE, MS EE'67, was a member of the Independents and **IEEE** while attending MSM-

UMR. He worked at McDonnell Douglas Corp. for 30 years. †June 30, 2005

1966



the band, Army ROTC, AIChE and the Missouri Miner staff while attending MSM-UMR. He served in the U.S. Army and the Army Reserves for seven years as a captain. In 1993, Hunter started his own firm, Hunter Appraisals. †Nov. 25, 2005

Alfred E. Klug, ME, MS EMgt'68, was a member of the St. Pat's Board, Army ROTC, Alpha Phi Omega, the Independents and SAE while attending MSM-UMR. He worked for many years at Jos. Schlitz Brewing Co. and Kimberly-Clark. +July 27, 2005

1968

Michael R. McCann. CE. was a member of the Newman Club, ASCE and the Campus Club while attending MSM-UMR. †Dec. 19, 2005

1969



John D. Meyerholtz, CE, was a member of Beta Sigma Psi, Chi Epsilon and the Intercollegiate

Knights while attending MSM-UMR. After 33 years with Shell Oil Co., he enjoyed playing golf during his retirement. †Dec. 28, 2005

1970

Kenneth L. Denney, MS ME, retired as an aerospace engineer with McDonnell Douglas Corp. †Sept. 26, 2005

1971

Carmen J. Barresi, MS EMgt, retired as a lead engineer with McDonnell Douglas Corp. +Oct. 24, 2005



EMgt, was a member of the Independents while attending MSM-UMR. He

was self-employed in St. Louis. †Oct. 27, 2005



Scott, GeoE, was a member of Triangle and the Independents while attending

MSM-UMR, †Aug. 19, 2005

1972



friends

Luigi Carano, international graduate student in systems engineering, †Dec. 31, 2005

Elsie Clemens, †Dec. 16, 2005

Kyle David Dothage, senior in mechanical engineering from Hermann, Mo. tDec. 24, 2005

Dorothy Eck, wife of retired UMR math instructor Robert "Bob" Eck, PetE'43. †March 6, 2006

Wilbur E. Evans, flan. 27, 2004

Glennon Jost, †June 23, 2004

Werner E. Koenig, †Aug: 8, 2005

Alice Lowe, †Oct. 14, 2005

Lorene Lueckenhoff, wife of Roger Lueckenhoff, †Oct. 3, 2003

Ruth B. Lytle, †Nov. 9, 2005

Lawrence T. Mariner, †Sept. 1, 2004

George J. Pasek, +May 29, 2005

Carl Rampacek attended MSM-UMR in the 1930s and received the Alumni Achievement Award in 1974, †Nov. 18, 2005

Joyce Redfearn, wife of the late Donald E Redfearn, MinE'49. +May 29, 2003

Leota M. Sanders, †Jan: 17, 2006

Robert L. Shelby, †March 11, 2004

Florene Smith, wife of the late Robert H. Smith, ChE'46. †Feb. 22, 2006

Charles V. Turner Jr., †Feb. 24, 2006

Rose Uding, wife of George E. Uding, ME'59. †Dec. 9, 2005

Kenneth W.





Stanley J. Menderski, EE, was a member of the Independents while attending

MSM-UMR. He worked for the U.S. Army Corps of Engineers for more than 32 years. †Dec. 12, 2005



David L. Rath. GGph, MS GGph'75, was a geologist with

Minerals and Chemical Corp. †Oct. 27, 2004

1974

Candice "Candy" C. Wolford, Engl, †Jan. 7, 2006

1975



Douglas J. Henry, EE, was a

member of the Independents. Tau Beta Pi and the Residence

Hall Association while attending MSM-UMR. He was employed by Westar Energy in Wichita, Kan., for 27 years, most recently as vice president of power delivery. Henry was active in his church, the Boy Scouts of America, the local mental health association and the symphony. †Feb. 9, 2006

1979



A. Weldon Gray, EE, was a member of IEEE while attending MSM-UMR. He was a 26-year veteran of

the electric power industry and was executive vice president and CEO of Concho Valley Electric Cooperative in Texas. Gray was

a Master Mason and an ordained deacon and Sunday school teacher in his church. †Nov. 26, 2005

1980



Joseph A. Smith, EE, was a member of the choir, the orchestra, KMSM-KMNR and Tau Beta Pi while

attending MSM-UMR. He was a longtime employee of Honeywell, where he received numerous rechnical and achievement awards in the avionics division and held two patents. Smith was active in his church and enjoyed any type of challenge. †April 9, 2004

1982

Daniel W. Truetken, EE, was a member of Pi Kappa Phi while attending MSM-UMR. He worked at General Dynamics in Texas for more than 20 years. †Jan. 22, 2006

1983

Michael Arthur Postiglione, MS EE, was president of Avanti Technologies Inc. in St. Louis. tlan, 31, 2004

1994

Robert Earl Miles, ME, +Oct. 16, 2004

1996

Ronie Lee Taylor, MS EMgt, †Dec. 5, 2005

1999



Jeffrey Lee Greer, CSci, lived life passionately and enjoyed sky diving, skiing and politics.

†Dec. 3, 2005



Karl & Marjory Hasselmann

The Hasselmann Society



In 2006, UMR renamed its planned giving donor society from the "Heritage Society" to the "Hasselmann Society." Karl Hasselmann, MinE'25, a pioneer in offshore oil exploration, was one of MSM's first entrepreneurs and philanthropists. He and his wife, Marjory, were dedicated to his alma mater - both in their lives and in their legacies. Through their estate, the Hasselmanns have contributed more than \$9 million to UMR, and they continue to provide annual support decades after their death.

More than 200 alumni have provided for UMR in their estate planning, including 79 living members of the Hasselmann Society. Thanks to the forethought of these alumni and friends, UMR will be a very different institution in the future.

To receive recognition or to learn more about planned gifts to UMR, call Lynn Bennett at 1-800-392-4112 or email lbennett@umr.edu

Faculty Profile

"I didn't go to college expecting to teach," says Ralph Flori, PetE'79, MS PetE'81 and PhD PetE'87. "I wanted to be an engineer. My passion

growing up was working with tools, building and creating things, and taking things apart." Flori took his interest in how things work, his experience working in his dad's heating and air conditioning business, and came to UMR. Today he is assistant dean of engineering for pre-college and undergraduate programs for the UMR School of Engineering, providing statewide leadership for Project Lead the Way. He also continues to teach as an associate professor of interdisciplinary engineering.

I don't see myself as great at anything, but I'm pretty good at a lot of different things. I'm a bit of a jack-of-all-trades. Teaching now in the new interdisciplinary engineering department at UMR is a great fit for me.

As a kid, I once shot an arrow up into the air to see what would happen. I thought I was far away from houses, but as soon as I released it, I saw it arcing toward trouble. It stuck in the roof of my neighbor's house. Not a good feeling.

You don't teach material. You teach students. I enjoy taking difficult concepts and helping students get it.

Ralph

Teaching is almost like acting in live theater. The actors get energy from the audience. Teachers and students both should bring energy to the classroom. So in class there should be energy, creative sparks, fun, humor, questions, answers, dialogue, and ultimately, learning.

Mori

The world is crying out for engineering. UMR was founded as a regional school of mines but its graduates have circled the world building businesses and developing new technologies. I want UMR to continue to be a world leader in engineering education and scholarship. There are courses taught here better than (or at least equal to) anyplace in the world. We have so many excellent teachers.

Unfortunately many young people do not understand engineering very well. They know what business people do, what lawyers do, what doctors do, but not engineers. This is a little odd, I think, because young people love iPods, cell phones, computers, Internet chat, game systems, cars, TVs, etc., but do not understand the technologies that make these work. They don't realize that they could be the ones involved in creating tomorrow's technologies. What's cooler than that?

I worry because the need to continue to innovate has never been greater. Innovation births new technologies and businesses that are major drivers in our economy. If new ideas dry up, then our economy falters.

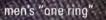
What encourages me is meeting young people and teachers in schools. One can read reports which often paint a bleak picture, but when I meet individual students who are smart, motivated, enthusiastic, and watch them doing challenging work, I am encouraged. When I see our stellar UMR students, I am encouraged.

UMR's "one ring"



The second second

women's "one ring"





The first owners of UMR's "one ring" gathered together following the ring ceremony held in April. Students and alumni selected our long-standing historic emblem as the center of UMR's "one ring." The crossed hammers remind us of our founding as the School of Mines and Metallurgy in 1870. The gear, while signifying our historic emphasis in the mechanics of engineering, also challenges all alumni to pursue new ideas and knowledge, accept civic responsibility and serve society. The chain signifies the strong link all graduates share through the ages.

Basic rings range in price from \$205-\$455

To order call the UMR Bookstore at (573) 341-4705 or visit Balfour's website at balfour.com/ORP/ default.aspx?sec=rings&id=M089