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Miner Alumni Association

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MSM-UMR

ALUMNUS

A PUBLICATION OF THE MSM-UMR

WINTER 2003

VOL. 77, NO. 4



Answering
the call

Gary Forsee CE '72

MSM-UMR Alumni Association

Representing over 45,000 alumni worldwide

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From the Editor's Desk



**A N D R E W
C A R E A G A**
News & Features Editor

Easygoing and approachable aren't words often used to describe captains of industry. But they describe Gary Forsee to a T. The soft-spoken Forsee, CE'72, may not come off as the hard-charging CEO type, but there is no doubt about his effectiveness as a leader. Just ask Sprint, which named him CEO this past spring. Or ask Forsee's former employer, BellSouth.

After Sprint's board of directors expressed interest in bringing Forsee back to the company (he had spent more than a decade with Sprint before moving to Atlanta-based BellSouth), BellSouth brought out the lawyers to keep Forsee from leaving. The result was a very public legal battle, which Sprint eventually won. Sprint's directors were determined that Forsee was the right leader for their company, and they were willing to fight to get him.

When I sat down with Forsee to interview him for this issue, what struck me most about him was his easygoing, engaging manner, and his embodiment of the values so many of our alumni are known for: a strong work ethic, a focused approach to problem-solving, and that can-do attitude. These values have served Forsee well throughout his career. They are the values that led his fraternity, UMR's Beta Chi chapter of Kappa Sigma, to name him as one of its three "Man of the Century" award winners during the fraternity's centennial celebration during Homecoming in October. Now, as he leads one of the nation's largest telecommunications companies into an uncertain but exciting future, those same values will serve Sprint well, too.

Letters

FAR BETTER THAN FOOTBALL

I'm from the class of 1939 and came to Oklahoma in 1962. Since that year I've been humbled about Oklahoma University's great football team. Now I no longer have to be humbled. The achievement of UMR winning the American Solar Challenge is to me a far better and greater achievement than winning football games.

At the next get-together you can rest assured all my Okie friends will become aware of our performance in the great car race. My sincere congratulations to everyone who had a part in this superb achievement.

*William T. Pearl '39
Oklahoma City, Okla.*

ASSEMBLING PAPER CARS

All over the world, Rolla grads are going to lose their jobs — because assembling the paper car model (of *Solar Miner IV*) is going to consume their engineering minds. While obsessing over Tab D, which pops out when you try to put Tab C into its slot, some important deadline will pass or some key meeting will start without the engineer from Rolla.

Seriously, it was fun; but I no longer have the dexterity to do it. Lauren, my 14-year-old daughter, put it together for me. Lots of experience with paper dolls, maybe? Are there any other alumni in the Atlanta area?

*Steve Kane, CSci'86
Tyrone, Ga.*

THAT'S NO PIRATE; IT'S A 'DARUMA'

Your recent article "No. 1 Under the Sun" in the Fall 2003 *MSM-UMR Alumnus* called the team's good luck charm a one-eyed Japanese pirate. Having lived in Japan for a while, I would hardly call the good luck charm that. In Japanese culture the good luck charm is actually called "Daruma." Darumas are very popular in Japan and are used to bring success and happiness. When that success or happiness is achieved, the uncolored eye is then colored in.

Per Japanese history, Daruma was a person who lived a long time ago. He was an Indian prince who went to China with the idea of Buddhism and ended up starting Chinese Zen. He is 28 generations from Buddha.

Now that the team has won the challenge, may they have good luck in coloring in the remaining eye!

*Phil Fetterman, MinE'73
Yuzhno, Russia*



Gary Forsee answers the call

New Sprint CEO returns to his Missouri roots

Photos by Don Henning/Henning Photography

When they began the search for a new CEO last spring, the members of Sprint's board of directors were looking for a proven leader in the telecommunications business. They found exactly what they were looking for in **Gary D. Forsee, CE'72**. But there was just one problem: Forsee was working for telecom rival BellSouth, and BellSouth wasn't eager to let him go. Sprint's directors were determined that Forsee was the right leader for their company, which had slipped to the No. 4 position in the telecommunications business, and they were willing to fight to get him. The result was a very public legal battle, which Sprint eventually won. Forsee was

named Sprint's CEO in March. And for the Missouri native and 30-year veteran of the telecommunications industry, it's been a welcome homecoming. Prior to joining BellSouth in 1999, Forsee spent a decade with Sprint and one year with Global One, the joint venture of Sprint Deutsche Telekom and France Telecom.

Described in the business press as a low-key but focused leader, Forsee is intent on bringing a new focus to Sprint. At his first meeting with shareholders in May, he outlined a five-point "100-day plan," which called for strengthening the company's market position, improving customer

(continued on the next page)

MSM-UMR ALUMNUS

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service and satisfaction, strengthening "bottom-line results," developing "a culture of winning," and differentiating Sprint from the competition. "If I have learned anything in the first weeks here," he said at that meeting, "it is that the foundation is in place for all these activities."

Last April, Forsee sat down with *Alumnus* news and features editor **Andrew Careaga** to discuss his vision for Sprint, the state of telecommunications, his UMR education, and the merits of caller ID. The interview was conducted in the studios of UMR public radio station KUMR, and can be heard in its entirety online at <http://www.kumr.org/features.html> (click on the "6/3/03" link).

ALUMNUS: How on earth does a civil engineer from UMR end up in the telecommunications business?

GARY D. FORSEE, CE'72: I had some interesting experiences in college working as a summer civil engineer for the (Missouri State) Highway Department. Then, through my junior and senior years, I had an internship with Procter & Gamble at their Charmin plant in Cape Girardeau (Mo.) and got a taste of engineering management, along with engineering practice. As a result of those experiences, I focused my energy when I was looking for places to work after college ... on companies giving me a broad-based use of the engineering discipline. I ended up with a job at Southwestern Bell. ... I started with Southwestern Bell in their basic management program.

ALUMNUS: You were in the news quite a bit earlier this spring when

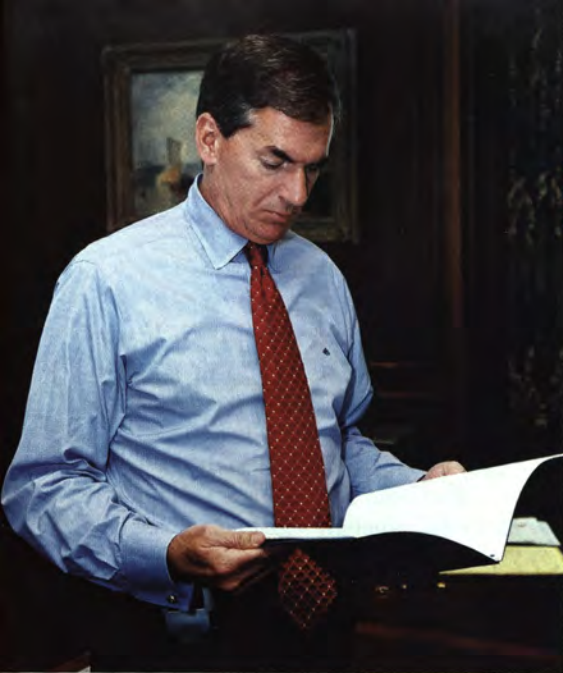
Sprint was interested in hiring you. Why do you think Sprint was so eager to get you on board?

FORSEE: I certainly didn't go into the process with the understanding that it would have turned into the kind of feeding frenzy of the press at that point in time. First of all, BellSouth is a great company. I had a very good three years there and worked with a lot of fine people. Sprint had a very unfortunate situation involving their CEO (William Esrey, Sprint's CEO since 1985) as well as the person viewed as the heir-apparent to the CEO (Ron LeMay). That was a very complicated and unfortunate circumstance that caused the board to conclude that they had to go outside for their next CEO.

They looked at my familiarity (with the company), having been at Sprint for 10 years during the '90s. ... I had a pretty good familiarity with the board, so I guess from their standpoint there was a comfort level with me. Obviously when I was approached, (I had) an immediate comfort level with that situation due to my connection, so it was one of those things that was a good match.

ALUMNUS: So coming back to Sprint and Kansas City is kind of like coming home for you?

FORSEE: Absolutely. It's like one of those incredible matches of professional opportunity and personal opportunity. ... Even with all the changes, the years that I was gone, there are still a lot of folks that were here when I was there ... who have moved on with their own careers. So it's really encouraging to go back and see a lot of the people that I had good



How on earth does a civil engineer from UMR end up in the telecommunications business?

connections with when I was there, and who are still there, in different positions.

ALUMNUS: There was quite a media frenzy that sprang up with your transition to Sprint from BellSouth. How did you deal with that?

FORSEE: It was not expected. There was a press leak that kind of preordained that it would become a media event, whether I wanted it that way or not. That was the case both in Kansas City, because of the Sprint circumstances, as well as in Atlanta (BellSouth headquarters). I basically concluded on the front end that there was no upside to be gained by talking at all to the media. The story was there, and it was hard (to not comment.) It would have been so difficult to explain my side of the story, that I didn't intend for this to happen, yet all of the data points were perhaps lined up in a different fashion. So I concluded early on that there was no upside to start defending myself or putting counterpoints out there. ... It was frustrating to a lot of people trying to get my side or get me to say something about the circumstance, but I think over the two months that (the news) was going on, that was probably the right thing to do.

I did put out a statement early on saying I meant no bad things to my former company or the board or my boss at that point in time, and that it was simply about having a chance to come back to Sprint where I had worked. I think everybody understood that point of the equation. So, long story short, it was better for me at that point and in that circumstance to not try and get in the middle of it and stir it up even further. A lot of it did blow over.

ALUMNUS: What are the major challenges for Sprint and for the telecommunications industry in general?

FORSEE: Well, it's an incredibly complicated environment right now. I think there are a number of factors in the economy affecting the overall industry. Most large businesses have backed away from large infrastructure projects or communications projects. ...

The second point is around technology substitution. Wireless in the last two years has really proliferated into other traditional services. You're allowing customers to make the choice: They can either clip the wire on their phone at home or use their minutes, which used to be long-distance minutes and now are any-distance minutes, on wireless.

So Sprint is fortunate enough to play on both sides of that equation. Technology substitution is certainly a big part of that. ...

From a Sprint perspective, Sprint is a very stable, solid company but with a financial performance ... not unlike other companies that had taken on a lot of debt. As the economy started to turn, and that became a burden to the company, Sprint took some significant action to address that. *Fortune* magazine just came out last week and Sprint is the 54th largest company in the country. Sprint has \$27 billion in revenues and 25 million-plus customers. We are the only company that has two national networks and a national brand, so from a starting point of those assets, I certainly like how we are positioned to take advantage of that. ... As the economy will hopefully turn somewhat over the next few months or the next year or so, I think Sprint is well-positioned to take advantage of that.

ALUMNUS: You mentioned earlier about your 100-day plan. Would you talk a little bit about that in the context of the challenges for Sprint?

FORSEE: Coming into any new situation, you'd like to have a fast start.

(continued on the next page)



How did your UMR education prepare you for your career?

From the context of what I saw coming in, I think there was a need to reach out and communicate very clearly to the key constituents. That includes our employee base — our company did go through some turmoil in the last few months with the succession issue so widely talked about — and communicating to our customers about how stable and sound the company Sprint is and what our advantages are. It also includes communicating to our shareholders, making sure they know their investment is in the right place with Sprint, and finally, to our business partners, that with the environment we're in, you can't do it all by yourself. ... Using my coming to the company as an opportunity to communicate with those groups is very important.

The other part of the 100-day plan is to get all of the issues that any company has ... in front of my senior team. And to the extent we can accelerate our progress on those and make decisions, then we are taking the opportunity to do that.

It's very energizing — not just for me coming in brand new, but also for the senior team that I work with.

ALUMNUS: How would you describe your leadership style?

FORSEE: First, you have to be able to understand the issues. ... There is no substitute for being able to go deep on issues and at the same time be able to understand which things are important. So prioritization is very important. There are so many things going on in any company, so many issues — certainly in a company as broad as Sprint — that you could drown trying to cover all those. So understanding what all the priorities are and being sure the plans are put in place to focus on those is very important.

Probably another aspect of my style is focus. Having a clear agenda and putting that in motion and staying on point for that agenda is an important part of a manager's leadership style.

ALUMNUS: How did your UMR education prepare you for your career?

FORSEE: I think it prepared me for a lot of things. This was a very hard curriculum, and it prepared all of us who have gone through this university for how hard we'd have to work to achieve something. Understanding that toughness was an important part of that. Sometimes I wish I'd have worked harder, looking back at some of those challenges. But I think the campus life

prepared you to understand how important working with teams is.

I had a great experience with the college fraternity I was in (Kappa Sigma), and the campus activities I was involved in — so at least in my case that really helped me understand the importance of getting along with people, a big group of people who are diverse in their backgrounds. Also, from the leadership standpoint, (I learned) how to make that diverse group of people work together for a common interest.

ALUMNUS: Tell me a little bit about life outside of Sprint, a little bit about your family and things you like to do.



The Sprint Connection: Educating Kansas City minorities

by Mary Helen Stoltz
mhstoltz@umr.edu

FORSEE: It starts with my wife of 31 years, Sherry. We have moved 16 times, so I have to give Sherry full and equal credit — probably disproportionate credit — for where I am. She has been a big part of that along the way. We have two wonderful daughters: Melanie, who's 26 and lives in Kansas City and is a UMC grad, and our younger daughter, Kara, who graduated with a degree in biology last spring and is now a first-year vet school student (at UMC). They've been great. We've moved all over the country. I had a European assignment (with Global One) and we tolerated some fairly difficult times with moves and all those issues along the way. So family has been a big part of my decision to consider the Sprint opportunity.

ALUMNUS: And what do you do in your spare time?

FORSEE: Well I always thought a good bit about balance and giving back. I've been involved for a number of years with the March of Dimes organization and currently serve on the board of trustees. No matter where you are along the career path, looking back, trying to contribute and give back is a lesson I learned early on.

I also like to golf on occasion. Reading and exercise, those are spare-time activities.

ALUMNUS: If you were UMR's commencement speaker, what would you tell new graduates today?

FORSEE: I would tell them to enjoy the moment. When you're here as a student and enjoying the student experience, as I've told my own kids, be sure that you soak up all there is in the college experience because that is a life and a foundation experience.

(continued on page 8)

By day, **Dan Justice**, AE'88, is the engineering coordinator for Metropolitan Community Colleges in Kansas City, Mo. He spends most of his time teaching classes at any of the four MCC campuses. By night — or at least in his spare time — Justice helps coordinate the MCC/UMR Sprint Minority Engineering Scholarship Program.



Dan Justice

He does it as a volunteer because he thinks MCC and UMR, in partnership with Sprint, are giving Kansas City-area minorities a chance they might not otherwise have. The chance for an engineering education — and better yet, a career.

Justice also believes the program is vital for Sprint. "Diversity strengthens the entire engineering

field," says Justice. "Diversity in and of itself is a worthy goal.

"There are a lot of ethnic minority kids coming out of the Kansas City school district who really have a lot of potential; they just haven't had a chance to show it yet," Justice says. The Sprint program lets these students grasp the engineering and science basics — as well as the discipline college study requires — at a smaller school before transferring to UMR.

Modeled after a successful existing program between UMR and the Emerson Co. in St. Louis, the Sprint Minority Engineering Scholarship Program was established at UMR in 1996 to attract minority students into engineering programs — arguably a challenge for a rural Midwestern school like UMR.

Floyd Harris, Psyc '74, director of UMR's Minority Engineering and Science program, recognized Missouri's community colleges were an untapped market for engineering students. So when Bill Vest, vice president of network engineering at Sprint, approached Harris about supporting the Minority Engineering Program at UMR, as well as his desire to recruit more graduates —

(continued on the next page)

including minorities – from the university, Harris jumped at the opportunity to model the Emerson program in the Kansas City area.

Sprint's investment in the program pays to send minority pre-engineering students to a Kansas City-area community college for pre-engineering courses, then on to UMR to finish their degree. But Sprint officials know they'll see a valuable return on that investment. They'll end up with well-educated, well-trained staff engineers.

"Five qualified students are selected for the program each year, based on their interest in engineering, academic record in high school, letters of recommendation and an interview process," explains Jeff Akerly, manager of university relations and recruiting for Sprint. After earning an associate's degree from MCC, the students transfer to UMR. In addition to the scholarships they receive, the students are able to intern at Sprint, gaining valuable work experience. Those who graduate with an engineering degree are often offered full-time positions with Sprint. "Their academic preparation and work experience make these students very attractive to Sprint as it recruits college graduates," Akerly says.

Alicia (Lee) McDonald, EE'01, MS EMgt'03, is one such graduate. The most recent recruit from the program, McDonald began a full-time position at Sprint in June. She works in the Network Operations Center of the local telephone division.

McDonald was a struggling engineering student at the University of Missouri-Columbia when she met Justice, who first introduced her to the Sprint program.



Photo courtesy of Sprint

Alicia McDonald

"I had decided to take a break from engineering, but instead just took a break from the four-year university," McDonald says. She returned to Kansas City and was accepted to the Sprint program at Longview Community College, eventually transferring to the electrical and computer engineering department at UMR.

McDonald describes her whole experience with the Sprint Minority Scholarship Program as wonderful and says her education has served her well already. "Right now I'm just training, and I'm getting to use things I learned in my undergraduate courses," she says.

Eboni Cunningham, CpEng'02, the second graduate of the Sprint program, graduated from the same high school in Kansas City as McDonald, but the two never crossed paths until they met in the Sprint program. Cunningham puts her engineering background to work in the switch and power engineering group of the local telephone division in Sprint's New Century, Kan., Western Operations Engineering office. As a switch engineer, she maintains the central office switching equipment.

(continued on page 10)

I would also tell graduates to not be afraid of what's out there, and to stretch themselves as they go through their career and not be afraid to take risks, not be afraid to make mistakes. The final message would be to give back.

ALUMNUS: Which teachers have had an influence in your life?

FORSEE: I think teaching probably started at home. My father was a professional person and my mother was a stay-at-home mom, so I had plenty of support and encouragement to get involved and to also ensure that I achieve what I could possibly achieve with my capabilities. So there was always a high expectation at our house. If I look at the success my younger brothers had and my older sister had when she was still living — that was something, I think, that started at home. So along the way, then, you look for reinforcement, whether it is from teachers in high school and college or Boy Scout leaders or business people I worked for along the way. Certainly I had a lot of great teachers, whether they were bosses or parents or actual teachers.

ALUMNUS: Let's talk about technology. Will connectivity remain a driving force for new communications technology in the short and long term?

FORSEE: I think the technology changes that are going on are just incredible. I came into town last night, and I came in armed with an Ethernet connection for my computer with an 802.11 (wireless) connection for my computer and a 3G (third-generation mobile network), which is off the Sprint wireless network connection for my computer. I'm equipped with a trio device that has all my real-time email, my calendar, my contact list, and all my phone numbers stored in it. I think the opportunities are to provide more

(continued on page 10)



Photo by Sonny Williams Productions Inc.

Sherry and Gary Forsee

The Forsee File

CAREER HIGHLIGHTS:

- **1972:** Began his career in telecommunications with Southwestern Bell, moving up in various management positions.
- **1981:** Joined AT&T as a division manager, later becoming vice president of GSA sales and programs for AT&T's Federal Systems Division.
- **1989:** Joined Sprint as vice president and general manager of Sprint's Government Services Division.
- **1998:** Named president and CEO for Global One, a joint venture of Sprint Deutsche Telekom and France Telecom.
- **1999:** Joined BellSouth as executive vice president; promoted to vice chairman for BellSouth Corp. and president of BellSouth International.
- **2003:** Named president and CEO of Sprint.

CIVIC INVOLVEMENT:

- Active in the March of Dimes since 1988; named national chairman in 2001. Also served on the board of trustees and regional chapters of the March of Dimes; named vice chair in 2000.
- Served as chair of March of Dimes WalkAmerica in Kansas City and Atlanta.

- Also involved in United Way and the Boy Scouts of America.

CAMPUS/UNIVERSITY INVOLVEMENT:

- **While a student:** Member, Kappa Sigma fraternity, Interfraternity Council, Blue Key, Student Union Board.
- **As an alumnus:** Received honorary professional engineering degree in civil engineering, 2000.
- Member, Order of the Golden Shillelagh, since 1997.

- Member, UMR Engineering Dean's Advisory Council.

- Former member, University of Missouri Board of Curators Telecommunications Advisory Council.

- Along with wife Sherry, established the Forsee Family Engineering Faculty Excellence Fund and the Forsee Family Engineering Scholarship/Fellowship Fund at UMR.

FAMILY:

- Married to Sherry Forsee for 31 years; two daughters, Melanie and Kara.



Photo courtesy of Sprint

Eboni Cunningham

From early in the program, Cunningham interned at Sprint every summer and winter break. Those internships gave her valuable experience that has really paid off – in more ways than one. Although she only started full time in 2002, Sprint considers her time as an intern as years of regular employment. “They’ve actually bridged that service to give me five years of service with the company,” Cunningham says.

She had always liked science and math, but it wasn’t until she met with a UMR representative at her high school that Cunningham decided engineering was the way to go. She was accepted into the Sprint program and started her coursework at Longview.

“The good thing was that the engineering instructors graduated from Rolla so they were able to really prepare us for what we could expect at UMR,” Cunningham says.

Cunningham truly realizes the value of the opportunity she was given. “My education from UMR has made me very detailed and descriptive. I have good writing skills and a good technical background,” she says. “There has been a bit of a learning curve since I’m not in the exact

same field of engineering I studied, but it was not a very hard transition.

“Overall, UMR prepared me well,” Cunningham says.

Kim Kennedy, EE’02, always knew she wanted to be an engineer. “I knew I loved math and was interested in how things worked,” she says. “The older I got it became more challenging because it seemed this field was totally dominated by men and even less sought after by minorities.”

Kennedy is a network system engineer at Sprint. “I do access testing for the Sprint Technology Integration Center Lab, where basically I ensure the equipment works the way it is supposed to.”



Photo courtesy of Sprint

Kim Kennedy

Kennedy is grateful for the opportunity the Sprint Scholarship Program provides women and minorities – the chance to acquire valuable work experience and get a quality education from UMR.

“The Sprint scholarship was a great opportunity for me,” Kennedy says. “I am forever grateful for the financial help and experience it provided for me and my family.”

interconnection for networks that have historically not been connected. In Sprint’s case, that’s connecting the national wireless network along with the national IP (Internet) data network and making those networks work together for business customers and for consumers.

(The wireless interface) 802.11 is again one of those interesting concepts that’s getting a lot of press. This week’s *Business Week* front cover article is about 802.11 creating the applications and the security for data that’s going to travel over those new networks. New technologies (for those applications) will lag a little bit, but hopefully we’ll catch up quickly.

ALUMNUS: Looking into the future five to 10 years, what do you think will become the commonplace technologies that both individuals and businesses will use? And what technologies will we not be able to do without?

FORSEE: The first aspect would be a lot more integration of what would have been disparate networks. I think high-speed becomes a part of that — whether its high-speed from a wireless standpoint or high-speed from a wire line or what the cable companies or the traditional telephone companies are providing. ... Over time you’re going to see a lot more applications that will allow integration.

ALUMNUS: Final question: How long should you let the phone ring before you pick it up?

FORSEE: It depends on whether you’ve got caller ID or not. (*Laughs.*) Caller ID is a great call-screener. Buy it as quickly as you can.

PROFILE

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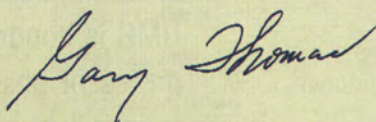
To all of the individuals, families and corporations listed on these pages of our Profile of Donors, we take this opportunity to say thank you. Your generosity has enabled us to not only maintain our standards, but to make progress in several areas. As I look around the campus and see the construction and growth, I know it is all of you who have made this possible.

This is the first time in recent years that we have included the Profile of Donors in the MSM-UMR Alumnus magazine. The list includes gifts to both UMR and the MSM-UMR Alumni Association. I hope your name is listed and that you know how much we appreciate you sharing your resources with us.

As our student population grows, the need for scholarship funds increases. If you'd like to make another gift yet this year, or start giving for the first time, we've included a Scholarship Fund envelope in this magazine. Your support of scholarships could make the difference in helping to recruit the next generation of Miners.

UMR's endowed chairs and professorships are featured on the following pages. These 16 outstanding faculty members are just one example of how private support impacts our campus.

*Thank you for your kindness and generosity.
Happy holidays to all of our alumni and friends.*



Chancellor Gary Thomas

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UMR is honored to have 16 endowed chair or professor positions currently filled. Allow us to introduce you to these talented faculty members on the following pages.



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Most exciting work: "A primary focus of my work is to determine how to prevent antibiotics and endocrine-disrupting compounds from reaching the consumer by monitoring their occurrence in the environment, and through development of treatment methods that will remove or destroy them at their point of generation or in water treatment plants."

Makes a difference at UMR by: "Developing a premier environmental engineering program at UMR. We have been highly successful at recruiting outstanding faculty, students and staff to support our educational mission, our externally funded research initiatives and our state-of-the-art instrumentation and research facilities. There are currently five permanent faculty, research faculty, and approximately 30 Ph.D. and master's students in the program. A new B.S. program in environmental engineering started last fall in our civil, architectural and environmental engineering department."

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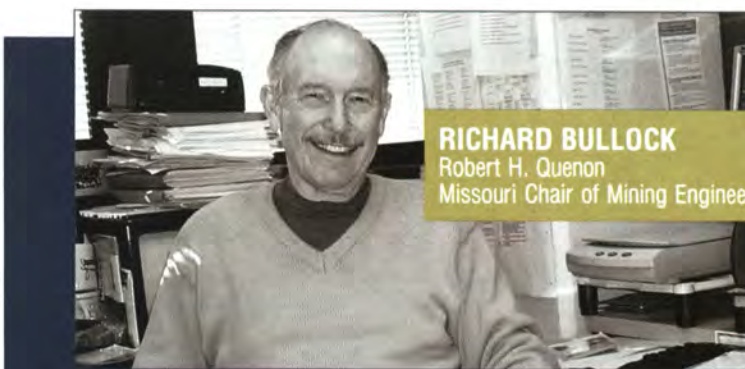
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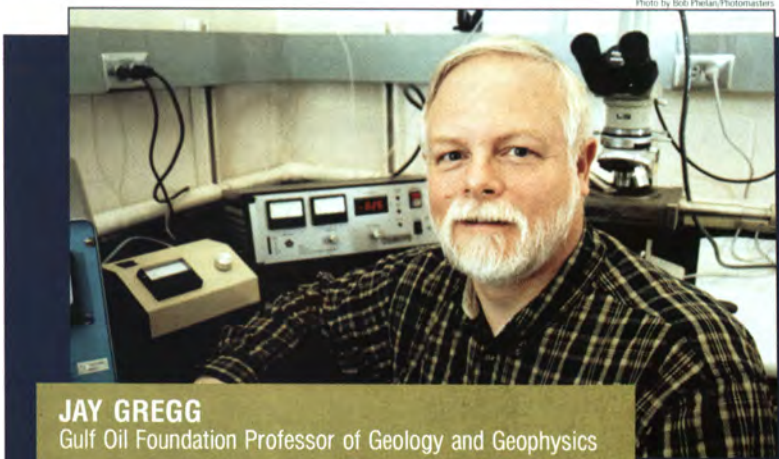
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Gulf Oil Foundation Professor of Geology and Geophysics

Research emphasis: Carbonate petrology and geochemistry applied to understanding the way sedimentary rocks, buried deep in the Earth's crust, change over geological time due to the movement of saline fluids.

Most exciting work: "Researching 300 million-year-old limestones and dolomites in the southern Irish Midlands. These rocks hold the largest zinc deposits in Europe. We have learned a great deal about how fluids have moved and what kind of fluids existed deep in the Earth's crust in a geologically complex area."

Makes a difference at UMR by: "I help bring international recognition to UMR's geology and geophysics department, and international exposure to our students. But I am simply carrying on our 100-year-old department's tradition of excellence, like all of the great geology professors who came before me."

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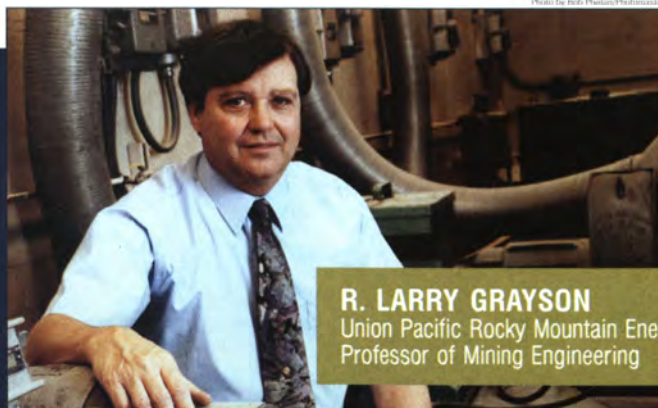
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 Union Pacific Rocky Mountain Energy
 Professor of Mining Engineering

Research emphasis: Mine safety and health, computer applications in mining, and coal mining.

Most exciting work: "Trying to pin down systemic problems and issues in small mines and bring public attention to health and safety problems. There are cultural and physical differences between small mines (fewer than 50 employees) and large mines. Targeting and prioritizing the safety issues that will have the greatest impact on improving small-mine safety has been a real challenge."

Makes a difference at UMR by: "Coordinating an Energy Interest Group among UMR faculty, which led to the establishment of the new Energy Research and Development Center. I also worked with the mining engineering faculty to establish the master of engineering degree in mining engineering, an online degree program for experienced mining professionals."

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Research emphasis: William Faulkner, Southern writers, feminist theory and women writers.

Jones will teach a course on Southern women writers in the English department during the winter 2004 semester. She is the author of the Jules F. Landry prize-winning book *Tomorrow is Another Day: the Woman Writer in the South*, and co-editor of *Haunted Bodies: Gender and Southern Texts*. She has three additional books scheduled for publication after 2004.

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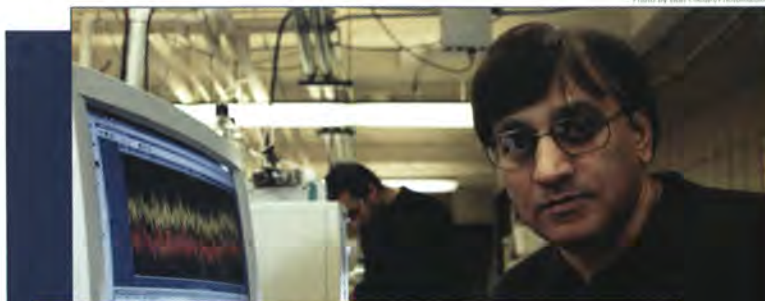
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 Professor of Mechanical Engineering

Research emphasis: Virtual reality-based simulation; rapid prototyping and manufacturing.

Most exciting work: "I have developed new technology — rapid-freeze prototyping — which uses a computer-design model to build 3-D parts out of ice by depositing and rapidly freezing water droplets in layers. I am also working on a system to build complex, three-dimensional ice parts accurate enough for commercial use, and developing technology that uses fabricated ice patterns to make dental castings from digital images of patient anatomy."

Makes a difference at UMR by: "My passion for education and research. I enjoy mentoring graduate and undergraduate students and young faculty members who have great potential and bright futures ahead of them. I feel UMR has many great people and an excellent foundation to build excellent programs. We are moving in the right direction at a fast speed."

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Research emphasis: Software engineering, including large-scale systems, real-time software, and software management; information assurance, including computer and network security and software reliability.

Most exciting work: "The new Trustworthy Systems Lab we established at UMR with a National Science Foundation grant to develop more reliable computer-based networked systems that can survive attacks and other security threats. Also, I chair the Information Systems Technology Panel for NATO, which allows me to interface with information technology leaders from all the NATO countries."

Makes a difference at UMR by: "I have developed two new courses (one on real-time systems and one on computer network security) and co-developed two other courses, one on systems and software engineering (with Dr. R. Joe Stanley) and one on network-centric systems engineering (with Dr. Cihan Dagli) — all with a practical focus and most of which require a team project that allows our students to explore very current topics and increase their team skills."

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 Professor of Electrical Engineering

Research emphasis: Control of smart structural systems, intelligent wireless sensor networks, structural health monitoring and cyberinfrastructure.

Most exciting work: Development of research facilities in health monitoring of aging aircraft and cyberinfrastructure, and integration of research and education.

Makes a difference at UMR by: "I've been instrumental in developing a large number of multidisciplinary research projects, attracting federal funding for research in emerging areas."

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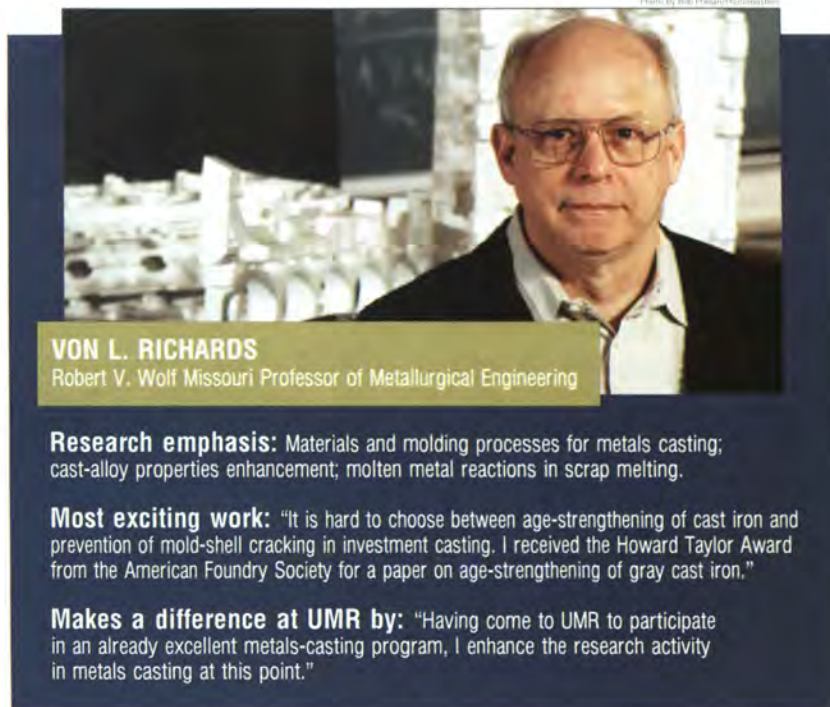
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Research emphasis: Materials and molding processes for metals casting; cast-alloy properties enhancement; molten metal reactions in scrap melting.

Most exciting work: "It is hard to choose between age-strengthening of cast iron and prevention of mold-shell cracking in investment casting. I received the Howard Taylor Award from the American Foundry Society for a paper on age-strengthening of gray cast iron."

Makes a difference at UMR by: "Having come to UMR to participate in an already excellent metals-casting program, I enhance the research activity in metals casting at this point."

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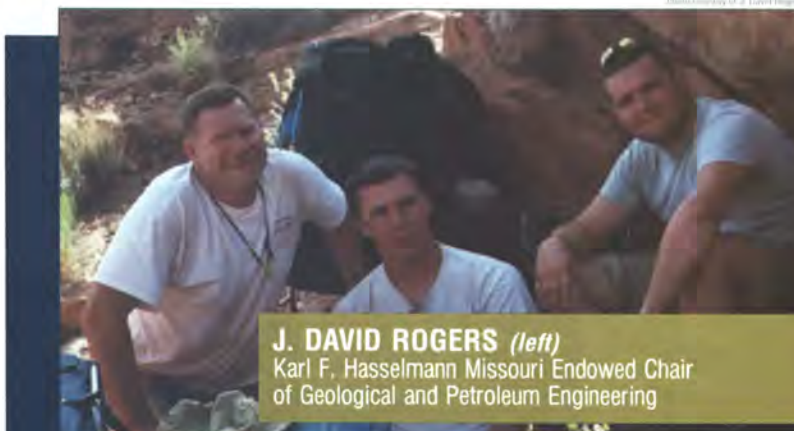
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Research emphasis: Assessing natural hazards such as earthquakes, slides and floods. "I hope to develop new techniques of terrain analysis using electronic models to identify earth movement hazards, allowing computers to do what now requires the skilled eyes of an experienced geomorphologist."

Most exciting work: "Evaluating an enormous rockfall avalanche that dammed a creek in the headwaters of the Rio Grande River in the San Juan Mountains of Colorado." Also: "Mapping earthquake-induced landslides along Crowley's Ridge, between Helena, Ark., and Cape Girardeau, Mo. — a distance of almost 240 miles."

Makes a difference at UMR by: "In the spring of 2002, I created a new course on military geology to study how various aspects of combat engineering and military logistics evolved into the complex interactive force that exists today. The idea is to make students 'think outside the box' of conventional manual-driven military doctrine."

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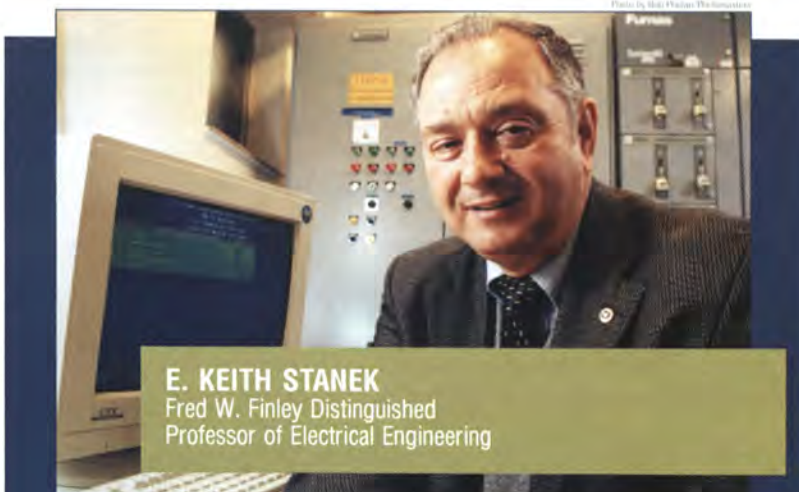
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Research emphasis: Electric power systems, specifically the reliability of electric distribution systems.

Most exciting work: "Jingyu Wang, PhD EE'02, and I developed a software package to optimally design distribution feeders using artificial intelligence methods. I consider this work to be a landmark development in this field."

Makes a difference at UMR by: "Over the last nine years I chaired the electrical and computer engineering department and helped it become one of the strongest departments on campus. I did not do this alone; it was a strong team effort of the ECE faculty and staff."

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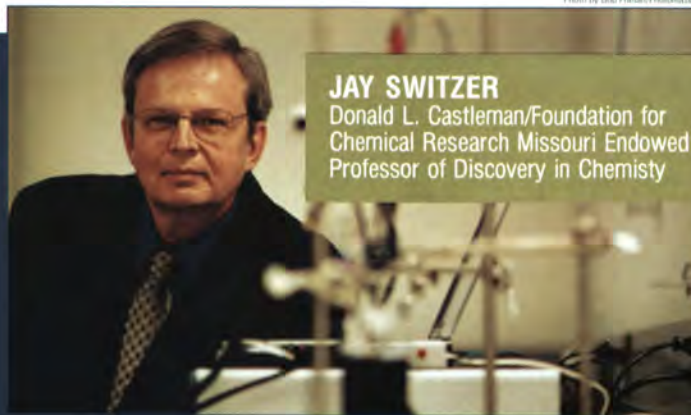
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Research emphasis: Electrochemical synthesis of nanomaterials. "We are producing materials with nanometer-scale dimensions — one-billionth of a meter." These "designer solids" include semiconductor and magnetic materials. "The method we use, electrodeposition, is much like that used to electroplate metals, but our focus is on metal oxide semiconductors and magnetic materials."

Most exciting work: "Right now, we are using electrochemistry to produce chiral or 'handed' surfaces. We hope to use these surfaces for the synthesis and sensing of such chiral molecules as pharmaceuticals. We recently reported on this work in the British journal *Nature*."

Makes a difference at UMR by: Educating quality students to do quality research. "My research group typically consists of students from chemistry, physics, chemical engineering and ceramic engineering."

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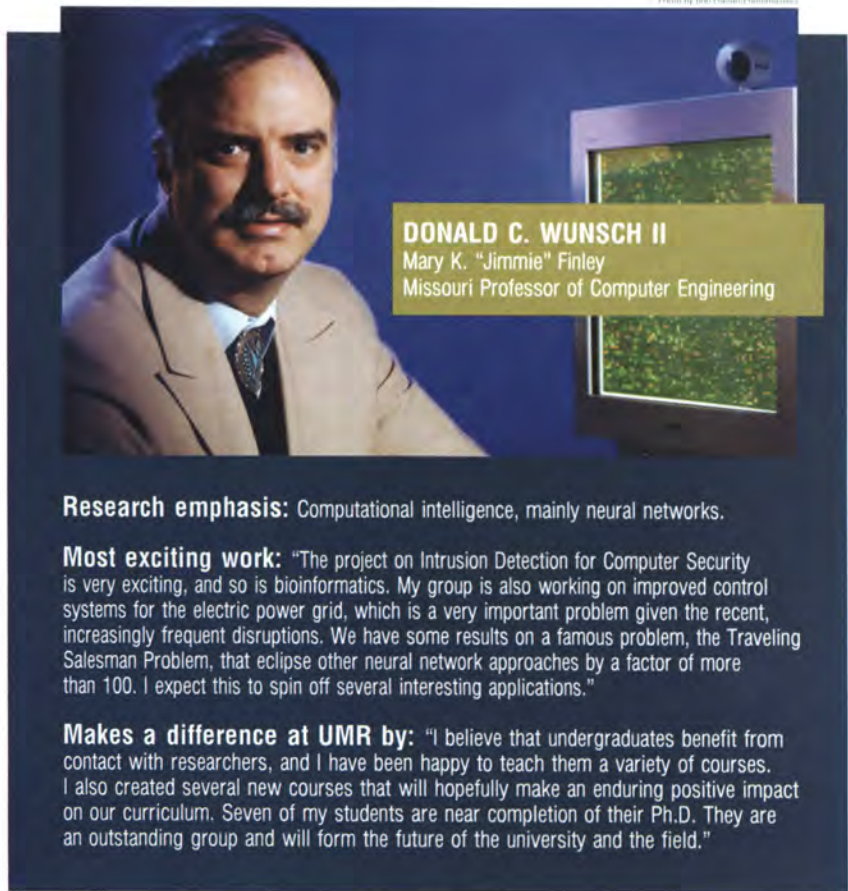
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 Missouri Professor of Computer Engineering

Research emphasis: Computational intelligence, mainly neural networks.

Most exciting work: "The project on Intrusion Detection for Computer Security is very exciting, and so is bioinformatics. My group is also working on improved control systems for the electric power grid, which is a very important problem given the recent, increasingly frequent disruptions. We have some results on a famous problem, the Traveling Salesman Problem, that eclipse other neural network approaches by a factor of more than 100. I expect this to spin off several interesting applications."

Makes a difference at UMR by: "I believe that undergraduates benefit from contact with researchers, and I have been happy to teach them a variety of courses. I also created several new courses that will hopefully make an enduring positive impact on our curriculum. Seven of my students are near completion of their Ph.D. They are an outstanding group and will form the future of the university and the field."

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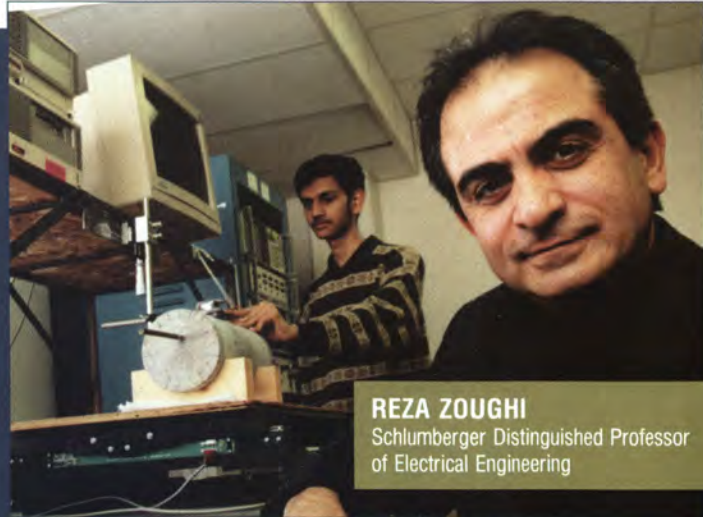
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**Phone: (573) 341-4508
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Tiffani Rhodes is surrounded by constant reminders of what happened on that early Sunday morning last December.

There are the scars on her left arm from the injuries and subsequent surgeries. There is the occasional pain, a vestige from the injuries, and from the rehabilitation and conditioning work she does to get back in shape. And there are the photographs, visible to her on a daily basis: one picturing her in the days following the accident that totaled her automobile on that December morning; and another of the wrecked car itself, its roof caved in.

For Rhodes, the scars, the pain and the photographs all serve as reminders of where she was — and as a means of inspiration to keep her working on a full recovery from an accident that could have ended not only her basketball career, but also her life.

As the UMR women's basketball team prepared to open practice Oct. 15, many eyes were on a Lady Miner roster that included 10 new players. But the eyes were also upon Rhodes, as she continued a remarkable comeback from a horrific early-morning car accident on Dec. 8, 2002. Watching Rhodes take the floor for that first practice was a scene unimaginable just 10 months earlier.

spots," Eads says. "We're counting on her to be a productive player there."

Simply being in a position to be a productive player is more than anyone expected in the days immediately following the accident.

The Lady Miners had returned home around midnight from Searcy, Ark., where they had played for the two previous days at Harding University. UMR had lost both games in the event, and in the last game, a 66-48 loss to Ouachita Baptist, Rhodes was scoreless. She made only two of 18 shots in the two games.

As the team was scheduled to have Sunday off, Rhodes decided to drive 90 miles up the road to Columbia to visit her boyfriend, **Scott Holly**, BSci'02, a former UMR men's basketball player. As Rhodes drove northbound on U.S. 63 that morning, she reached a winding stretch of the highway north of Freeburg, Mo., and despite driving at the speed limit, began to have difficulties keeping her car on the road.

"For me, that's the worst part of the trip because of all the curves there," Rhodes says. "I had gone around one curve and was coming up to another one. I was driving fine and I don't recall hitting anything, then the back end of my car started to fishtail. So I cut my wheel to stay on the

Tiffani Rhodes

by John Kean (jkean@umr.edu)

expressway to recovery

"The doctors' initial prognosis was that it would be several months before she would even be back in school — and she was back the second semester," says Lady Miner head coach **Alan Eads**. "The doctors attributed much of that to our pre-season conditioning program, because she was in decent shape when the accident happened. She steadily got better, much more so in relationship to what they initially anticipated.

"I know she feels very fortunate that she's able to play," he says. She sees this as a second chance, because none of us — including Tiffani herself — were sure whether she would ever be able to play again. She's been working extremely hard as a result."

In the initial days after the accident, Rhodes resigned herself to the notion that her basketball career was over. "They didn't think I was going to be paralyzed, but that was going to depend on how my neck healed," she says. "They said I wouldn't play basketball again at all."

Prior to the accident, Rhodes was averaging 12.2 points per game with four double-figure scoring performances in the first six games. According to Eads, Rhodes will be expected to contribute in some fashion this season, although her role has not yet been defined. "We're expecting her to play the two-spot for us and maybe even some at the three and four

road for a second and then after that, I blacked out. When I woke up, I was at the bottom of this ditch.

"At the time, I had no clue where I was. When I first woke up from the accident, I thought I was dreaming. I didn't remember leaving my house, I didn't remember driving — I thought I was in a really bad nightmare. I closed my eyes and I was like, whew, I just want to go back to sleep."

Rhodes was trapped in her wrecked vehicle in the bottom of that ditch, with serious injuries.

"When I finally realized what had happened, I tried to move. But my left leg was hanging outside the car door, my left arm and body were jammed up against the car door and my head was just kind of hung over.

"I tried to lift my head but it really didn't move. Then I tried to lift my right arm and that moved. But the next thing when I noticed my leg, the initial thought was, 'Oh my gosh, I'm probably paralyzed,' so I tried kicking my legs and they moved. So then after that, I thought 'OK, you need to make some noise.'"

Rhodes tried to scream for help and honked her horn, but no help came. The accident occurred in a remote stretch of highway where there were no homes, and at a time of little traffic.

(continued on the next page)



Rhodes' car was totaled in the December 2002 accident.

Photos provided by Tiffani Rhodes

So after a couple of minutes of trying to get help, Rhodes, weakening from her injuries, fell asleep in the car.

Fortunately for Rhodes, one of the headlights on her car was still operating. Some people on their way home from a paper route noticed it and stopped. Rhodes then heard some people calling from the side of the road. "They were yelling, 'Are you okay?' I heard them and screamed back at them, 'No, I'm stuck down here. I've been in an accident. I don't know where I am. I'm scared. Someone please help me.'"

The people came down to assist Rhodes and stayed with her until emergency service personnel arrived. "All I knew at this time was that I was in an accident," Rhodes says. "Luckily, I didn't try to move much at all, because when I later found out what my injuries were, that could have been the difference between me walking today and not being able to move from the neck down."

Rhodes never really felt the pain from her injuries until after the EMTs started to remove her from the car. Her arm had been broken both above and below the elbow, she had some broken ribs and a broken sternum, as well as bruises to her lungs and aorta. She also sustained fractures in her T-6, C-6 and C-7 vertebrae — meaning that if she had moved her neck as much as "a millimeter" during the time she was trapped in the car, she could have become a paraplegic. The C-6 and C-7 breaks were similar to those suffered by actor Christopher Reeve.

"The only reason I stayed in was because I had my seatbelt on," Rhodes said. "The doctors said if I didn't have it on, I probably would have been tossed from the car and would be dead today. I broke my sternum because of that, but a sternum vs. your life? Big, big difference."

Rhodes was airlifted to St. John's Mercy Medical Center in St. Louis. Holly arrived at the hospital moments after Rhodes, and must have been quite surprised at Rhodes' demeanor. Even in those initial hours, she was cracking jokes to lift Holly's spirits. When her parents arrived from Detroit, she apologized for wrecking the car.

"I was hurting, but nothing clicked with me that something was seriously wrong. I figured that maybe I had a broken arm because it was hurting so bad, but I had a neck collar on so I couldn't see anything. I think I was there about two days before I found out.

"No one wanted to tell me what had happened. The first night I was in pain, but the next morning I was in excruciating pain where I couldn't move anything. My whole body had

there was no explanation for how well I was doing," Rhodes says. "They said a lot of it probably had to do with my age and the fact that I was in good shape before I got in there. They attributed a lot of the recovery to that."

So only two weeks after entering the hospital, Rhodes left St. John's on her own two feet — and went home to Detroit for Christmas. During the holidays, Rhodes saw Dr. David Collins, a team doctor for the Detroit Red Wings who also worked with her after she tore



Rhodes (pictured at left and above with her mother) during her two-week hospital stay.



swollen and during those first few days, when anyone tried to touch me or move me, it was the worst pain I've ever felt."

Amazingly, by the end of that week, this woman who had been one move away from becoming a paraplegic was on her feet. "At the end of the week, they were just dumbfounded;

her anterior cruciate ligament (ACL) as a high school junior. Her rehab continued in Rolla under the guidance of **Scott and Marikay Portell**, the owners of Sport Rehab, which handles UMR's training needs.

In the days preceding her release from St. John's, Rhodes received some news that quickly changed her outlook on the future.

"At first, my only goal was to be able to function normally," Rhodes says. "I said at the

time that I didn't care if I ever played basketball again and that was the truth, because at that time my main concern was being able to heal and walk and do stuff on my own. As I started to get better, the doctors told me that they thought I'd be able to play again. ... I said to myself, 'I'll play next season. ... I know I'll play next season.' That's the goal I gave myself and stuck to it."

Rhodes proved to be a quick healer. Not only was she walking within a week and out of the hospital in two. In just over a month, she returned to classes in Rolla. In less than three months, she had the halo brace off and had begun strengthening her neck by spending a little more time daily without her neck brace.

When she began rehab, Rhodes had difficulty moving her left arm, which was fractured in the wreck, but has regained most of its range of motion. "With the left arm, I had to relearn everything — all the way from lifting my arm above my head to dribbling a basketball. When I started dribbling again, I wasn't able to flip my wrists back and forth."

When Rhodes first learned last January that she would be able to return to school, her parents had reservations. "I wouldn't have made it without my parents," Rhodes says. "When I was at home and told my parents I wanted to try to come back to school, they were saying that they didn't know if I would be strong enough. But my doctor said, 'If you feel you can do it, I don't see any reason why you can't.' About a week later, my mom was packing up to come down with me." She stayed three months.

"I owe tons to her. There's no way I can pay her back," Rhodes adds. "She came here and took me everywhere. Otherwise, I would have wound up being a semester behind."

The hardest part about last winter for Rhodes was being able to do nothing more than sit and watch the Lady Miners play. There were days in practice near the end of the season when Rhodes would take a ball and throw it up at the basket with her right hand — and the coaches would tell her to sit down.

By spring break, Rhodes' doctors had cleared her to begin more vigorous activity. "Everything was another step toward getting back this year. For example, if I could go in the gym and shoot from the three-point line — which I didn't have the strength to do before — I would say, 'Oh my goodness.' I've used everything as motivation, even stuff that didn't go as I wanted it to go. I just had to remember where I was coming from."

The hardest part for Rhodes has been getting back into shape to play basketball.

"Healthwise, she's pretty much at 100 percent," says Eads. "She's been able to do everything in our pre-season conditioning

program — including running and lifting — and has done pretty well. But she still has a ways to go to get into basketball shape."

"I do have to get used to playing again," says Rhodes. "The pre-season has been very hard, but I've been making it. My back still hurts and sometimes my arm does too. I get a cramp every day and I've never experienced that before. ... I do have to stretch a lot more before I start. I've also changed my diet — drinking a



Photo by Bob Phelan/Photomasters



Photo by Bob Phelan/Photomasters

Holly missed the 2000-01 season after tearing a quadriceps muscle a week before the season opener and went through an extensive rehab process of his own to return for his senior year. The next season, he finished as the Miners' second-leading scorer.

"He has helped me out a lot," Rhodes says. "There would be some times when I would feel a little blah and he would say, 'Are you serious?' He helped me put a lot of stuff in perspective."

"That's where he helped me the most. You can't live in the past. If you do, there's nothing for you in the future. ... He always tells me that you can't do that to yourself or you'll get discouraged. It's the truth."

"I'm able to do so much and that's what I'm thankful for. It might get better, it might not, but it won't be for a lack of effort."

Rhodes back in action with the Lady Miners.

"I'm able to do so much and that's what I'm thankful for. It might get better, it might not, but it won't be for a lack of effort."

lot more water and eating a lot healthier. I really have to work a lot harder because there are a lot more things that I have to be worried about. ... It crosses my mind that I can't do some of the things I could before. I'm still getting my shooting back. But otherwise, I just try and play."

Holly has been a good guide for Rhodes during the recovery process. He had first-hand knowledge of coming back from a serious injury.

Rhodes envisions a season that would include taking the court at Kansas City's Municipal Auditorium with the rest of the Lady Miners on March 4 for a first-round game in the Sonic/MIAA Basketball Championships. She and her current teammates have never played in a conference tournament game. "If we can do that, you'll never hear me complain again," she says.



Photo by Jerry Naunheim Jr./St. Louis Post Dispatch

Mike Dancer (center) conducts a welding experiment in a weightless environment aboard a KC-135 aircraft.

They don't call it 'vomit comet' for nothing

UMR team members hope their experiments will help NASA identify ways to build structures in space.

David Harris, a senior in aerospace engineering, now knows why they call NASA's KC-135 aircraft the "vomit comet." Last July, Harris led a team of seven other UMR students and two Rolla Senior High School students on a trip aboard the KC-135 to conduct welding experiments in near-zero gravity conditions. The vomit comet flies in parabolic patterns to create a temporary environment of near weightlessness, and NASA uses it to conduct a variety of experiments. With Harris and three other UMR students on board, the plane zoomed from about 24,000 feet to roughly 32,000 feet, and then back down in an arc. The parabolic trip generates enough inertia to create about 25 seconds of micro-gravity – a brief window for experiments in near-weightlessness.

"I had never gotten motion sickness before," says Harris, "but this was a completely different environment." According to the NASA officials working with the team, Harris' reaction was not unusual, and not the worst case of motion sickness they'd seen. "They said, 'At least you could walk yourself off the plane and didn't have to be carried like some others we've seen'."

Last spring, the UMR students proposed their experiment to NASA, which chose UMR as one of 72 teams to fly an experiment aboard the vomit comet. The vomit comet doubled as a command module for Tom Hanks and other cast members during the filming of the movie *Apollo 13*.

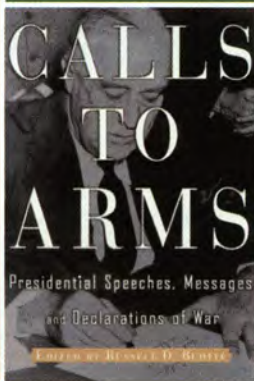
"It was an amazing experience and we successfully completed our experiment," says Harris. The group welded eight different samples during two, two-hour flights. The team hopes their experiments will help NASA identify ways to build structures in space. Since the July flight, team members have been evaluating how their microgravity welds hold up in comparison to welds done on Earth. The group plans to finish its analysis by the end of the fall semester 2003.

"Any advance in making construction in space easier is beneficial. If a means by which welding can be done easily and reliably can be developed, it would be very useful to future construction in space," says **Hank Pernicka**, associate professor of mechanical and aerospace engineering. Pernicka and **Hai-Lung Tsai**, professor of mechanical and aerospace engineering, are the team's advisors.

Harris says the team may get to do this again next year because of this year's success. If so, however, "I think I'll retire my flying license and let someone else do the flying next year while I stay on the ground."

Working with Harris were UMR students **Mike Dancer**, **Jason Gallagher** and **Kathy Gallagher**, all of whom flew aboard the KC-135; ground crew member and alternate flyer **Adam Gorrell**; and ground crew members **James Dymott**, **Regan Tackett** and **James Tinsley**. Rolla High School students **Karthik Balakrishnan** and **Andrea Krive** both served on the ground crew.

Recent books by UMR Faculty



Calls to Arms: Presidential Speeches, Messages and Declarations of War

By **Russell D. Buhite**, professor of history, published last February by Scholarly Resources (www.scholarly.com).

Englishmen Transplanted: The English Colonization of Barbados 1627-1660

By **Larry Gragg**, professor and chair of history, published in October by Oxford University Press. The book challenges the traditional view that English planters in Barbados were reckless fortune-seekers.

Spanning the Years: Civil Engineering the Rolla Way

Updated by **Diana Ahmad**, assistant professor of history and UMR's archivist. This official history of UMR's civil, architectural and environmental engineering department was originally written

in 1986 by emeritus professors of history, **Jack Ridley** and **Lawrence O. Christensen**. Ahmad's update was published to coincide with last September's rededication ceremony of the Butler-Carlton Civil Engineering Building. The book is available from the civil, architectural and environmental engineering department.

Web Data Management: A Warehouse Approach

Co-written by **Sanjay Madria**, assistant professor of computer science, published in October by Springer (www.springer-ny.com). Madria's book discusses more effective approaches to managing online data.

The Romantic and Transcendental Quests of Ralph Waldo Emerson and Victor-Marie Hugo

By **Regina Young**, lecturer in French, published in December by Edwin Mellen Press (www.mellenpress.com). Young's book compares the philosophical views of American transcendentalist writer Ralph Waldo Emerson with those of French writer Victor Hugo.

GO ONLINE TO NEWS.UMR.EDU AND READ MORE ABOUT THESE BOOKS

New chairs in EE, ChemE, School of Management, English

Four academic departments – two in the School of Engineering and two in the School of Management and Information Systems – have new chairs. They are:



Kelvin T. Erickson, EE'78, MS EE'79, professor of electrical and computer engineering, who became chair of that department on Sept. 1 after serving for a year as interim chair. Erickson replaces **E. Keith Stanek**, Fred Finley Distinguished Professor of Computer Engineering, who served nine years as department chair.



Barry Flachsbarth, former adjunct professor at UMR's Engineering Education Center in St. Louis, who became professor and chair of the information science and technology department in UMR's School of Management and Information Systems on Sept. 1.



Ray Kluczny, associate dean of the School of Management and Information Systems, who became professor and chair of the school's business administration department on Sept. 1.



Judy A. Raper, former dean of engineering at Sydney University in New South Wales, Australia, who became chair of the chemical and biological engineering department on Dec. 1. She replaces **Douglas K. Ludlow**, who served seven years as department chair.



Larry Vonalt, associate professor of English, who became chair of the department on Sept. 1. A member of the English faculty since 1975, Vonalt served as interim chair in 2002.

A BLIP IN GEOLOGIC TIME

Geologists are accustomed to thinking in terms of epochs and eras, so a century is a mere blip on their timetable. Nevertheless, there is reason to celebrate the longevity of the UMR geology and geophysics department, which turned 100 in 2003. Although geology has existed as an academic discipline since the campus opened in 1871, the department did not officially stand alone until 1903, when it was established by a geologist of some renown, MSM Director **George E. Ladd**.

Even before becoming an official department, geology at MSM had already made a name for itself. According to *A History of Geology and Geophysics: 1871-2003*, by **A.C. Spreng**, professor emeritus of geology and geophysics, MSM displayed more than 3,500 Missouri minerals, building stones and specimens at the 1893 World's Fair in Chicago. The school also contributed a mineral display for the St. Louis World's Fair in 1904. MSM received a gold medal from the fair's sponsors, and Ladd secured more than \$40,000 in fixtures, furniture and display cases, as well as the rock, mineral and fossil specimens for the department of geology and mineralogy.

Since 1950, the department has housed several programs. They included a water resource to study the water flow and water contamination in the Ozark Plateau area; a geophysical observatory, located in McCormick Cave near Newburg, Mo., that recorded area earthquake activity; and a weather station that Spreng took over in 1958 and continues to manage for the National Weather Service.

ME/AE building now the campus' top priority



A proposed illustration of the new ME/AE teaching and research facility.

With renovation of the Butler-Carlton Civil Engineering Building now complete, the campus is directing its energy toward its next big project: turning the mechanical and aerospace engineering complex into a world-class teaching and research facility.

UMR Chancellor **Gary Thomas** says renovating the current ME/AE complex is the campus' top priority. "We have seen what can be done when you put the best faculty and students into modern facilities elsewhere on campus," says Thomas, "and our mechanical and aerospace engineering students deserve nothing less."

The existing ME/AE complex saw its last major renovation in 1969 — the same year as the first *Apollo* moon landing.

The requirements have grown significantly," says **Ashok Midha**, chair of the mechanical and aerospace engineering department. "Today's students are performing weightless experimental welding on the 'vomit comet' (see story on page 54) and conducting research on space shuttle tiles to enhance performance, so there is a tremendous need for new undergraduate instructional labs and classrooms equipped with new learning technologies, as well as for flexible, interdisciplinary research areas to adapt to future needs. The current space, for example, is not equipped to accommodate modern technologies such as lasers, virtual manufacturing or rapid prototyping."

The \$24 million modernization calls for renovating the current 66,500-square-foot Mechanical Engineering Building as well as razing the outdated Mechanical Engineering Annex, constructed in 1902, and replacing it with a 73,000-square-foot modern structure that will house learning centers, laboratories, research and technical facilities.

At the heart of this modernization will be the Product Innovation & Creativity Center (PICC), where students will learn leadership,

At the heart of this modernization will be the Product Innovation & Creativity Center (PICC), where students will learn leadership, teamwork and communication while tackling real-world, hands-on projects.

teamwork and communication while tackling real-world, hands-on projects. The center will house virtual reality and rapid prototyping laboratories, multimedia conferencing and presentation rooms, new computer-aided design and computer-aided engineering facilities, and other improvements.

"The PICC is central to the building, central to the culture we want to create," says Midha. "Companies will appreciate having students who can take on projects with the confidence and skills necessary to get the job done."



Kummer Atrium

Still abuzz from news of their program's top 25 ranking in the latest *U.S. News and World Report* college guide, several alumni and faculty of the civil, architectural and environmental engineering department celebrated the official opening of their newly renovated building on Sept. 12-13. The celebration began with a public ceremony on Friday, Sept. 12, followed by a dinner featuring U.S. Sen. Kit Bond as guest speaker on Saturday, Sept. 13.

The newly renovated and expanded Butler-Carlton Civil Engineering Building features computerized "smart boards" in many classrooms, is outfitted for wireless computing, and features transparent architecture designed to teach students about construction and structural engineering even as they pass through the structure. It also features some of the most modern civil engineering research facilities in Missouri and surrounding states,

says department chair **William Schonberg**. They include a three-story high-bay structures laboratory, which allows researchers to conduct heavy-duty testing of full-scale steel beams and other large construction materials; an expanded hydraulics laboratory designed for the real-time study of rainfall; a rooftop greenhouse for the study of wetlands and environment-cleansing trees; and interconnected environmental engineering laboratories and classrooms.

Originally opened in 1960 — before the era of computers, wireless technology or centralized air-conditioning — the building was named the Butler-Carlton Civil Engineering Building in 1978 in honor of former civil engineering chairs **Joe B. Butler** and **E.W. "Skip" Carlton**. The renovation and expansion project began in the fall of 1999.

The 143,000-square-foot structure includes 100,000 square feet of new space that includes

29 classrooms, the three-story structures laboratory, the hydraulics lab and an expanded construction materials laboratory. The 43,000 square feet of renovated space includes a student advising complex, computer learning centers, a geotechnical engineering laboratory, graduate research offices and labs, a senior design lab, large classrooms, the Needles Seminar Room (named after **Enoch Needles**, CE'14), student lounge areas, and two new lecture halls named for prominent alumni: the Gunther Lecture Hall, funded through a gift from **Don** (CE'60) and **Rosemary Gunther**, and the Neil Stueck Lecture Hall, funded through the estate of **Cornelius F.P. Stueck**, CE'43.

The centerpiece of the new addition is an expansive atrium, funded through a gift from **Fred** (CE'55) and **June Kummer**.

Renovated CE building opens

Warm night on Elm Street

The day was cold and rainy, but Nancy Davis and her three children were moving into a warm home of their own at 62 Elm St. in St. James, Mo., thanks to the UMR and Phelps County chapters of Habitat for Humanity.

"Generations of students have come together to make this day possible," said **Matt Bleckman**, president of the UMR Student Chapter of Habitat of Humanity. The Davis house was the result of a yearlong effort of the two chapters and some UMR fraternity labor. "Basically, it was built during Saturday workdays, so it took longer than usual," said Bleckman, a senior in computer science and management systems from Washington, Mo. "We're looking forward to moving on to our next house," which will be next door.



Nancy Davis (left) is welcomed home by Christian End, Matt Bleckman and Erin Wohlrab.



Member Benefits

As an alumnus of MSM-UMR, you are automatically a member of the MSM-UMR Alumni Association and are entitled to:

MSM-UMR:

Chairs, lamps, watches, rings, pendants, Platinum/Gold MasterCard, license plates for Missouri residents.

Career Assistance:

UMR's Career Opportunities Center will help you in your job search!

Services:

Online Community, including searchable directory. Access to alumni office via email (alumni@umr.edu).

Alumni locator service to help you find friends.

Address update service so you don't miss your MSM-UMR mail.

To take advantage of these offers, contact the alumni office:

MSM-UMR Alumni Association
Castleman Hall
University of Missouri-Rolla
1870 Miner Circle
Rolla, MO 65409-0650

Phone: (573) 341-4145
Fax: (978) 926-7986
Email: alumni@umr.edu
Web: alumni.umr.edu



New and current alumni association officers and directors gathered during Homecoming.

New alumni association officers, directors elected

- Roger Dorf**, ME'65, director-at-large, president and CEO, Celite Systems
- Kraig Kreikemeier**, ME'63, director-at-large, St. Louis, owner of Kreikemeier Group LLC
- LeRoy Thompson**, CE'56, area 4 director, Davie, Fla., principal and vice president, Zorzo Castella Thompson Salman PA Consulting Engineers and Architects
- Brian Call**, ME'97, area 7 director, Lowpoint, Ill., design engineer, Caterpillar Inc.
- Randy Dreiling**, CE'81, areas 10-18 director, St. Louis, senior structural engineer, Design Nine Inc.
- Keith Wedge**, GGph'70, areas 10-18 director, Rolla, Mo., retired Missouri Department of Natural Resources and retired brigadier general, U.S. Army Reserves
- Willis Wilson**, CE'73, area 19 director, Cassoday, Kan., shareholder and manager, environmental department, MKEC Engineering Consultants
- Linda Wright**, ChE'88, area 20 director, Houston, Texas, hydrocarbon fluids global product manager, ExxonMobil
- Dennis Leitterman**, EE'76, area 23 director, Sunnyvale, Calif.
- Andrew Draker**, Student Union Board president
- Julia Rosemann**, Student Council president

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



Miners well represented at UM System reception

On Sept. 16, alumni from all four of the University of Missouri campuses spent time with UM System President Elson Floyd at Highland Springs Country Club in Springfield, Mo. Floyd spoke briefly about the future of the UM System, and shared his concerns about the state's budgetary issues, which are likely to affect programming and education in Missouri. He asked that all alumni lobby for the best interests of their alma mater.

Those attending included D. Keith Brannan '92; Harold L. Burke '62; Dr. Martin '67 and Pamela Capages Jr.; Mark '83 and Stephanie Crosswhite; James Eckhoff '60; Wilbur '76 and Bette Feagan; John '71 and Evelyn '73 Gayer; Charles Harman '52; Randall Herion '00; Amy Ruggeri '90; Marc Thornsberry '83; Terence Towers '65; Windsor Warren '48; Lindsay Bagnall '76 of the alumni office; and Greg Harris of university advancement.

Alumni welcome President Floyd to Washington, D.C.

Alumni from all four campuses of the UM system gathered in the nation's capital on Sept. 24 to meet University of Missouri President Elson Floyd and honor Missouri's federal legislators. More than 200 alumni attended to thank our senators and representatives for their support.

Those attending from MSM-UMR included Myron Bruns '62; Ann Burke '87; David Dajc '96; Brand Fulton '88; Inhl Hong '67; Doug '63 and Sandy Hughes; Abere Karibi-Ikiriko '00; Raymond '66 and Nancy Kruep; Kent Lynn '85; Christopher Mayberry '98; Joe Schumer '92; John '49 and Kelly Toomey; Robert '42 and Colette Van Nostrand; Glenn Whichard '83; Chancellor Gary Thomas; Judy Cavender of university advancement; and Lindsay Bagnall '76 of the alumni office.

Association accepts endowments

Thanks to these new endowments, more students and campus programs will receive needed funds:

- MSM-UMR Alumni Association Leadership Award Endowed Scholarship, to benefit future UMR students who demonstrate leadership qualities.
- Orville H. Duvall Scholarship, to benefit applied mathematics majors.
- Tau Kappa Epsilon Achievement Scholarship, to benefit TKE members.
- Thomas H. Dunning Sr. and Beatrice Colvin Dunning Endowed Scholarship, to benefit engineering, computer science and basic science students.
- Charles L. Edwards Endowed Scholarship, to benefit mechanical engineering students.
- Geological Engineering Department Utah Geology Summer Field Camp Endowment, to benefit geological engineering majors who attend field camp.
- John L. "Jack" Painter Memorial Student Event Endowment, to underwrite the cost of alumni events for students.
- LeRoy E. Thompson, PhD, PE Endowed Scholarship, to benefit Sigma Phi Epsilon members who are civil engineering majors.
- Diane M. Butrus Leadership and Participation Softball Scholarship, to benefit a female softball athlete.
- Diane M. Butrus Leadership and Participation Basketball Scholarship, to benefit a female basketball athlete.

Thank you

Thank you to the following retiring members of the board of directors and committee chairs for their dedication and loyalty to the alumni association and MSM-UMR: R.J. Agee, Student Council president, 2002; Daniel L. Carnahan '68 – area director, 1988-2003; Corey Chapman, Student Union Board president, 2002; Kamila J. Cozort '85 – area director, 1998-2003; James L. Foil '74 – area director, 1991-98, academy liaison task force chair, 1998-00, and constituent liaison chair, 2000-2003; Gregory Junge '65 – area director, 1998-2003; Richard R. Paul '66 – at-large director, 1998-2003; Stephen R. Puljak '92 – area director, 2000-03; Roddy J. Rogers '81 – area director, 1998-2003.

Student groups receive \$2,500 from association

The alumni association provides \$5,000 each year to help fund specific projects sponsored by recognized student organizations. Student groups receiving funding this fall are:

Society of Women Engineers:

\$1,000 to support a lock-in for high school girls that assists with UMR recruitment efforts.

ISEE student chapter:

\$750 for "Music in the Sky," a program that incorporates fireworks with the marching band's performance of the *1812 Overture* during a football game.

India Association:

\$250 for the Hauratri Cultural Event. This festival brings together different communities and introduces them to Indian culture.

UMR Techs:

\$250 for the "Hot Shots" project — a night of games, laser tags, free pizza, and more for students as an alternative to parties where alcohol is served.

Interfraternity Council:

\$250 to promote friendly competition and foster goodwill among houses, as well as participation in several community service projects.



Fund established to honor Berna Harvey

Berna Harvey's dedication to UMR students and her work as SUB advisor to be memorialized in the Havener Center

A number of Student Union Board alumni have started a fund in memory of Berna Harvey, the SUB advisor from 1968 through 1983, to assist in construction of the Havener Center.

Harvey had a tremendous impact on UMR and on the student population. "Mrs. Harvey's primary concern was always the students," says **Tom Miesner**, EMgt'95, who served as SUB president during the 1994-95 school year. "What I learned from her as SUB advisor helped me more than any of my professors."

Other alumni agree, and have related fond memories of Harvey. "One time I was feeling overwhelmed with school, studies, activities, everything and needed something different. I asked Mrs. Harvey if I could come spend the night at her house and of course she said yes," says **Sue (Hadley) Rothschild**, CSci'74. "She and Mr. Harvey were so nice to me. They let me get a good night's sleep, fixed a nice breakfast, and were just the adults I needed at that time."

"The SUB office in the old building was just a good place to hang out in," Rothschild says. "You could almost always find someone there, and I think Mrs. Harvey's desk must have been right there, too. She probably got tired of us at times, but never showed it. She was the adult I had the most consistent contact with over four years, which we all needed. We weren't as grown-up as we thought."

Because of her unique personality and dedication to the students, Harvey greatly influenced the lives of many students. She died in 2001, and when alumni heard about the new student center to be built, they believed raising funds in her memory would be an ideal way in which to memorialize Harvey, and to assure that students in the future would know her name.

Plans call for naming the Student Union Board office in memory of Harvey. If you would like to help in the fund-raising effort, or if you'd like to make a gift, please email the alumni office at alumni@umr.edu or mail your gift marked "Berna Harvey Fund" to the MSM-UMR Alumni Association, Castleman Hall, 1870 Miner Circle, Rolla, MO 65409-0650.

Kappa Delta receives honors

UMR's Epsilon Alpha chapter of Kappa Delta received several awards during the KD National Convention June 26-29. The chapter received the Financial Responsibility Award with individual members receiving the following:

Sharon Tally Renick received the Order of the Emerald Award, given for outstanding CAB alumni support to chapters.

Sylvia Mae Skouby received KD's highest honor for collegians, the Corne Anding Stegall Leadership Award, for outstanding leadership both on campus and in her sorority.

Jessica April Niemeier '97 received the Dorothea B. Cavin Scholarship, a \$2,000 scholarship for graduate study. The award is named for the late Dorothea B. Cavin, whose significant bequest to Kappa Delta initiated the formation of the Kappa Delta Foundation.

Robert Dye Memorial Scholarship



Larry Grayson (blue shirt with tie), chair of mining engineering, presented UMR students (above, left to right) **Joshua Martin, Scott Geer, Chris Davis, Seth Reeves** and **James Coit**, and (inset) **John Cohn** with the Robert Dye Memorial Scholarship for the fall 2003 semester.





Fall career fair brings alumni back to campus

UMR students and alumni met with representatives of 105 companies during the fall career fair on Sept. 25. At least 120 recruiters were MSM-UMR alumni. On the evening before the fair, alumni toured the newly dedicated Butler-Carlton Civil Engineering Building and were treated to a reception hosted by the UMR Career Opportunities Center with assistance from the MSM-UMR Alumni Association.

Those attending included Amy Katschman '96; Ryan P. Stack '02; Heath Schaefer '03; David Moore '83; Will Reed '96; Matthew White '03; Bill Borrenpohl '99; Jennifer Hoppe (Damron) '98; Ben Fish '98; Chip Keim '01; Josh Smith '99; Josh Corra '00; Prashant Sura '00; Amy Pousson '00; Kevin Irving '94; Dave Ilges '92; Jennifer Ward '01; Jason Hudson '95; Larry Taber '00, '01; Katie Compiseno '01; Andy Szaflarski '00; Heather Nydegger '01; Eric Topp '88; Charles Daily '83; Robert Mooshegian '01; Bob Schoen '02; Heather Davenport '01; Jenny Rady '01; Don Luna '02; Mike Richter '73; Jack Strosnider '74, '76; Mike Carlson '99; Chris Beach '99; Gina Carpenter '85; Mark Viox '80; Bret Lindsey '99; Aaron Hargrave '02; Nathaniel Keen '00; Albert Meyers '93; Jason Buenemann '02; Erin Callahan '02; Zeb Nash '72; Tupba Camci '03; Eugene Shoykhet '02; John Lovitt '01; Dale Waldo '81, '02; Patrick Painter '99, '03; Bill Burton '82; Dave Billingsley '86; Ahmed Hamadi '01; Neil Blauvelt '02; Greg Duncan '01; Dale Powers '70, '74, '77; Mark Zeien '01; Mathew Michler '00; Ed Hammann '02; Jason Sherman '97; Brian Est '89; Danne Murphy '93; Lloyd Flowers '88; Michele Jackson '02; Brent Bossi '90; Kim Echols (Hargis) '02; Lynn Miskell '83; Amy Bremer '97; David Cortivo '97; Dan O'Neal '99; Justin DeWitt '91; Kevin C. Miller '77; Karen Strothkamp '02; Robert Brune '00; David Edgar '93; Jim Lahm '88; Derek Dressler '02; Ken Kozlowski '83; Jason Neely '99, '01; John Kullman '00; Mike Carda '97; Jason Beckerdite '02; Theresa Williams '98; Joe Cooksey '97; Brett Goodman '93; Libby Stephenson '02; Brett Kunce '01; Steve Szabo '01; Oliver Sitton '78; Nathan Wojtkiewicz '02; Tim Hogan '02; Michael Owens '93; Jeff Morris '01; Brian Jones '01; Anne Lamitola '00; Leon Hall '69, '71, '74; Jennie Bayless '89; Seth Hanebutt '02; Nancy Harms '00; Gary Tomlinson '98; Amy Owens '97; Chris Byrd '03; Rick Isbell '80; Chris Leonard '02; Sarah Baggett '01; Neil Book '72; Ray Luechtefeld '83; Jill Akers '99; Keith Gettinger '00; Joe Vance '69; Joe Kuss '70; Gary Amsinger '80; Floyd Harris '74; Tisha Scroggin '02; Danny Koenigsfeld '03; Rachel Durst-Strecker '99; Michael Keyes '91; Melissa Schwaller '02; Jennifer Kinkead '00; Amanda Chirpich '03; Stacy Hurt '96, '97; Elaina Ware '99; and Amanda Byrd '03.

SPE reception brings alumni to Denver

In conjunction with the SPE 2003 Annual Technical Conference and Exhibition, several MSM-UMR alumni gathered at the Marriott City Center in Denver on Oct. 7 to meet with current UMR faculty and students. Anuj Gupta, associate professor and program head for petroleum engineering, served as the guest speaker, updating the group on current events in the geological and petroleum engineering department.

Special thanks go to Dave Bufalo for hosting the event.

Those attending included Kumar Kalidindi; Roger K. Taylor '72; Mark Dieckmann '82; Scott Wehner '80; Herman Vacca '60; Shari Dunn-Norman; Sid Nahar '03; Waleed Al-Bazzaz; David DuBois '81; Michael Bell; Tom Nichols '88, '92; Doug Swenson '83; Doug Gordon '81; Bob Hea '81; Mark Pickell '73; Jack Lutz '59; Richard Duff '02; Manish Kumar; Abdulla Bu Ali; Rajeev Gupta; Remilekun Davis; Anuj Gupta; Jim Honefenger '72; Terry Donze '71; George Carlstrom '75; Lloyd R. Heinze '91; Tim Albers '01; DaoPu Numbere; Bernard Lucas '75; Sali Banerjee '72; Nick Valenti '81; Dave Bufalo '66; Archie Taylor '77; and Pipat Jirapongpipat.

WELCOME PICNIC for new faculty and staff



Willis Wilson, chair of the MSM-UMR Alumni Association's Faculty, Staff and Volunteer Relations Committee, drove in from Kansas to host UMR's new faculty and staff picnic.

The annual UMR Get Acquainted Picnic was held Sept. 11 at Lions Club Park. This event was co-sponsored by the MSM-UMR Alumni Association's Faculty, Staff and Volunteer Relations Committee and the Academic Affairs New Faculty Forum. The picnic is designed to help new faculty and staff members learn about the campus and the Rolla community. Members of various city and county organizations were on hand to answer questions.

Many thanks go to Ron Bieniek, professor of physics and director of new faculty programs, for his help in organizing this event. Special thanks go to Willis Wilson '73, chair of the Faculty, Staff and Volunteer Relations Committee, for driving to Rolla from Kansas to host this event.

Those attending included Jared Collier; Cheryl Downey-Eber; Dana Rapiet; John Butz; Tamara Smith; Leslie Gertsch; Rose Marie Dapogny Drain; Todd Hubing; Ruth Ann Williams; Tara Peters; Kittie Robertson; Linda Bramel '89; Kumar Venayagamoorthy; Arica T. Spillers and daughter; Kai-Tak Wan; Gwen Wan; Julia Rosemann; Andrew Draker; Roger Younger; Mary Shah; Debra Younger; Willis Wilson '73; Stephanie Martensen; Daniel Cooper; Bradley White; Adam Wachter; Laney Fritz; Lindsay Bagnall '76; Marianne Ward; Eric Theiss; Chris Ottley; Abhijid Dutta; Jerry Bayless '59; Scott Caron; Randy Verkamp '72; Scott C. Smith; Sherry Vance; David Drain; Y.T. Shah; Roger Berkbuegler; Chancellor Gary Thomas; Karen Roberts; Roxana Kelly; Ron Bieniek; Jianmin Wang; Laurie Dogan; Kenan Dogan; Taner Dogan; Lawrence C. George; Arlan DeKock; Traci Harris; Bryan Donnelly; Ethan Buckmier; Matt Lenzner; Suzanne Goff; Rachael Gliottoni; and Monica Coleman.



AIR CAPITAL

Alumni go out to the ballgame

Several alumni and their family members gathered at the Lawrence-Dumont Stadium in Wichita on Aug. 23 for an end-of-summer sporting event. The evening began with a tailgate party, as the Miners geared up to support the Wichita Wranglers as they face the San Antonio Missions.

Once inside the baseball park, alumni settled in to cheer on their home team. In the middle of the fifth inning, a much-needed rain storm blew into town and caused a slight delay. After waiting out the storm, the Wranglers were not able to fully dry off. They were defeated by the Missions, 5-3.

Many thanks go to Sean Daly for organizing and hosting this event.

Those attending included Sean Daly '96; Jarrod Grant '98; Jennifer Marshall '96; John Goethe '92; Yuvaraj Annamalai '03; Ken '75 and Carol Drake with David; Rob Davis '01; Brendan Joiner; Tony '98 and Laura (Bandy) '99 McLaughlin with Annabelle; Randy Schuetz '83 and family; and Pamela Edwards '76 and family.



David Moluf and his family met with members of the Air Capital Section to celebrate his upcoming departure for Rolla.

ALBUQUERQUE

Alumni welcome solar car team

MSM-UMR alumni and their families gathered at Roosevelt Park in Albuquerque on July 19 to welcome the UMR Solar Car Team



Albuquerque alumni welcome Solar Car Team to the Enchanted State.

to their area. Several pieces of fried chicken later, the group heard from team member Jason Nolte, who discussed his experiences as a driver of the solar car. The event was even more special because Nolte's parents were also in town to cheer the team on. Marianne Ward, assistant director of alumni and constituent relations, was also on hand to speak with alumni about the latest events happening on campus.

Even though there is no alumni section in the area, an incredible number of alumni and friends came out to support the team. In fact, one of the alums was so inspired by this festive occasion that he volunteered to work with the alumni office to start an official alumni section in the area. Many thanks go to Todd Rasthofer for all of his help.

Those attending included Roland Freidank '38; Roger and Cindy Freidank; Jim '63, '68 and Peg Baremore; Bob '68 and Patty Ayars; Tom Corcoran '55; Cliff Wagner '61; Jerry '52 and Pat Koetting; Bob '71 and Shari Clark; Steve '84 and Jean Bowser; Barbara Bowser; John Stucker '71; Randy King '67; John Williams '77; Dennis '81 and Allison Croessmann; Luke and Molly Croessmann; Todd Rasthofer '98; Bill Heitz '78; Brian Call '97, '99; Jerry '50 and Nancy Shelton; Vince Wahler '65; Patrick Schroeder '00; Geoff '01

and Laura '03 Brennecke; Anne Hibbard; Jim and Joan '74 Woodard; Mark Woodard; and UMR Solar Car Team members Russell Molyneaux; Stephanie Maiden; Kerry Poppa; Neal Essner; Scott Essner; Robert Becho; Wesley Day; John Tyler; Jason Nolte and Doug Carroll.

ARK-LA-TEX

Summer meeting and dinner

Luck was not necessary for alumni and friends of the Ark-La-Tex Section as they gathered at Harrah's Louisiana Downs in Shreveport on July 19 for their quarterly meeting. Organized and hosted by Jerry Poland and Kenny Cochran, the event offered a full day of food and fun. Thoroughbred racing was only part of the day's activities, as alumni dined on a lavish all-you-can-eat buffet in the Sky Room, located on the exclusive Penthouse Level of the facility.

While several alumni tried their luck at picking the winning horses, others tried their hand at the casino. It is reported that no one left the event rich; it is assumed everyone at least "broke even."

A short business meeting was also included in the day's agenda. While alumni enjoyed sharing memories of their time at UMR, the merits of gray horse No. 5 versus black horse No. 6 were discussed as well.

Those attending included Gail and Bobby Fowler; Melissa Dodgen; Katy McClannahan; Joe '86 and Holly Swan; Elmond Claridge '39; Ken and Mary Bulin; Randy and Sheryll Wood; Rick and Jody Tyler; Kenny '83 and Beth Cochran; Dennis and Peggy Boykin; Curt and Rhonda Lightle; Jerry '82 and Tammy Poland; Daniel and Sherry Parrish; Loretta Moscardi (wife of John '51); John Livingston '39;



Ark-La-Tex members pose with Say Somethin' Funny following a day at the races.

WE WANT YOUR NEWS:

Submit your Section News and Alumni Notes, by March 19, 2003, to alumni@umr.edu for inclusion in the spring 2004 issue



Michael and Kaye Morriss; Scotty Gerbes '01 and wife; Greg Wood and wife; Lincoln and Connie '02 Bauers and guest; Erin Swearengen '02; Mark Simecek '94 and wife; Ernie '70 and Geri Green; Kasie Byers; Keith Brooks '97 and guest; and Jeff and Debbie Osborn.

CENTRAL OZARKS

Central Ozarks meet with Solar Car Team during Rolla stopover

The first of two mandatory stops for teams competing in the American Solar Challenge was in Rolla the night of July 14. Central Ozarks Section alumni gathered to meet with the team and to wish them well throughout the remainder of the race.

Also on July 14, a joint effort of the MSM-UMR Alumni Association and the UMR admissions office brought prospective students and their families to campus to see what the UMR community had to offer. This also allowed the Solar Car Team and alumni to meet in one central location. Papa John's pizza catered the meal, and the team provided the entertainment. What a great venue to bring so many different groups of people together to celebrate!

Those attending included Don Sparlin; Merle Southern '61; Betty Eyberg; Jan Ostborg; Fred '58 and Pat Krueger; Ed Albee '78 and Sue Aurelius; Brian Call '97, '99; Rick and Debbie Mace with Kassie and Kara; Lindsay Bagnall '76; Nick Barrack '75; T. Kamo; John '75 and Mieko Tyler; K. Erikaus; W. Nicholas Knight; Harold '66 and Joyce Fiebelman; Chris Ottley; Susan and Cordell Lawrence with Josh; Kenny Harris; Steve Belarde '96; Troy and Corene Hicks; Scott Alford with Kamron; George McPherson Jr.; Diane and Dan Henke; UMR Solar Car Team members Doug Carroll; Sundar Srinivasan; Kerry Poppa; Jason Nolte; Lee Hall; Stephanie Maiden; Neal Essner; Megan Struttman; Srinivas "Jack" Jakkidi and Wesley Day; and Marianne Ward and Stephanie Martensen, both of the alumni office.

Solar car alumni talk to prospective students

Prior to the Central Ozarks Section reception for the Solar Car Team, four MSM-UMR alumni of previous solar races participated in a student/alumni panel for prospective students and their families who

were visiting campus for the day.

The focus of this particular panel was to discuss the benefits of being involved in a student design team, and to gear up the students and families for the rally that was taking place outside the Gale Bullman Multi-Purpose Building.

A huge thank you goes to Dan Bohachick '99; Steve Belarde '96; Ken Kostedt '97 and Brian Call '97, '99 for their participation in this panel and their assistance with student recruitment.

Alumni feast on shrimp

Close to 100 alumni and friends gathered for the famous annual shrimp feed on Sept. 6 at Lions Club Park in Rolla. Attendees dined on an all-you-eat dinner of boiled shrimp, baked beans and coleslaw. The event is sponsored by the MSM-UMR Alumni Association's Central Ozarks Section and the Rolla Chapter of the Missouri Society of Professional Engineers. Proceeds from the event go to the Rolla MSPE Chapter Scholarship Fund.

Prior to the shrimp feed, several attendees watched the Miner football team battle the Colorado School of Mines Orediggers at Allgood-Bailey Stadium. Special thanks go to Jerry Bayless for organizing this event, and to Jennie Bayless and Marianne Ward for welcoming all attendees to the park.

Those attending included Rick Stephenson; Jim Fiscus '86; Dennis Fiebelman '72; Chris '91 and Joanne '92 Steineman; John '75 and Mieko Tyler; Lelia Halmich '82; C.T. Harry; Gary '73, '82 and Peggy Henderson; Del Day '58; Ted Day; Max M. '70 and Martha Ethridge; Jianmin Wang; Keith and Sandra Stanek; Jeremy George; Norman Tucker '40; Don and Nancy Brackhahn; Keith Bailey '64; Tom '73 and Janice Mills; Jack C. McDermott; Walt Eversman; Jeff Brand; Joel Brand '86; Keith Lueck '84; Rocky Ralebipi; Chancellor Gary Thomas; Butch '66 and Joyce Fiebelman;



Central Ozarks Shrimp Feed.



Central Ozarks member Steve Hargis takes on the role of chef as he prepares filet mignon for non-shrimp eaters.

Kent '76 and Lindsay '76 Bagnall; Mildred Gevecker '31; Gwen Gevecker '48; Doug '91 and Karla Carroll; Chester Baker '55; Bob and Jane Mitchell; Lee and Priscilla Saperstein; Paul '95 and Julie '99 Hirtz; Hank '56 and Pat Sauer; Kim Fiebelman; Don Myers '61, '64; Jim '70 and Sue Perry; Shannon Lusk '02; Diane Crouch '84; Bryan Parker '97; Steve Hargis '85; Jerry Gilmore '60; Paul Stigall '62; Ryan '94 and Carolyn Buschjost; Chuck '49 and Agnes Remington; Ruth Faucett; Greg Baird; Andy Baird; Lola Howe; Cathy Paulsmeyer; Craig Stanek; Jennifer Rogers; Bill '58 and Beth Schluemer; Ed Albee '78; Sue Aurelius; Glenn '39 and Janet Brand; Bob Phelan; Sue Albertson; Dave Dearth '68; John '47 and Sharyn Powell; Bob '41 and Hanna Nevins; Jay and Suzanne Goff; Sarah Moore; Jerry Bayless '59; Jennie Bayless '89; Marianne Ward of the alumni office; and Joel and Hope Burken.

CHICAGO

Alumni send off new students and cheer the start of the solar car race

Chicago Section alumni added another element to their annual summer send-off student picnic. Due to the American Solar Challenge starting in Chicago this year, the Chicago-area alumni also planned for a proper send-off for the UMR Solar Car Team. Students gearing up to start their UMR career were fortunate to interact with the Windy City alumni and a very talented group of current students.

(continued on page 64)



Chicago-area alumni, family and friends gather to wish the UMR solar car team and two new students well on their adventures.

Following a meal of grilled hamburgers and hot dogs, Chicago Section president Fred Niemeier welcomed attendees to the picnic and asked for introductions from the Solar Car Team. Team member Lee Hall discussed the race qualification process and summarized what was to come before the race began the next morning.

The event was not officially over until Niemeier awarded door prizes to alumni and to the new students. Solar Car Team members responded to a barrage of questions from alumni and family as attendees were trying to figure out who the greatest competition would be in the field against UMR.

Thanks go to Colleen Stucker and Fred Niemeier for organizing and hosting this event.

Those attending included Fred '95 and Jessica '97 Niemeier; John '87, Abby, Ben and Sarah McGillivray; Ken Pendleton '60; George Staples '60; Doug Dallmer '60; Scott Spychala; Dennis '58 and Rhea Mason; Tim '85 and Marla '87 Jedlicka; Charlotte Jia-Yuan; Melinda Morgan '99; Matt '96 and Katie Mogg; Jayne Huseman '02; Melissa Krolak '90; Jason Eckert '99; Don McIntosh '82; Julia Davis of the school of engineering; Stephanie Martensen of the alumni office; and UMR Solar Car Team members Kerry Poppa; Lee Hall; Stephanie Maiden; Brendan Shaughnessy; Megan Struttman; Wesley Day; Andrew Baughman; Karl Neuman; Neal Essner; Jason Nolte; and Srinivas "Jack" Jakkidi.

HOUSTON

Section sends off students in style

Whether they decided to take a dip in the pool, eat home-cooked food by the finest alumni in Texas or take some time to meet a new MSM-UMR friend, everyone attending the Houston Section send-off picnic found something to their liking. This annual event was held on July 12 at the home of Rob and Becky Riess, and included alumni, current students, new students and their families.

Tim Cox, admissions representative, was lucky enough to enjoy this southern hospitality, as he traveled all the way from Rolla to make sure that UMR's new students had something that distinguished them as a Miner. Door prizes were also available for alumni, as they can not be overlooked when it comes to celebrating all that the MSM-UMR community has to offer.

Many thanks go to Lori Crocker for organizing this event, and to the Riess family for opening their home.

Those attending included Mike Miles '03; Gary Jones '76; Frances '97 and Shannon '97 Walker; Jim Medlin '67; Doug Fuchs '77, '79; Mike '81 and Rosie Flannigan; Bill '97 and Carlin Tedesco; Wayne '58 and Betty Andreas; Jan Andreas; Bob '80 and Risa McCann; Rob '79 and Becky Riess; Ryan Riess; Dave Fronick '77; Steve Curran '79; Brad Flauaus '94; Margie '02 and Robbie '02 Gordon; Curt '73 and Mary Elizabeth Killinger; Ralph '66 and Carol Kramer; Nicole Talbot '77; Russ Pfeifle '74; Mavis Talbot; Molly '01 and Andy '01 Laegeler; Tony Clark '01; Jan and Daryl Counts; Ed May '83; Curtis Smith '96; Matt



Current and new UMR students from the Houston area.

Dissinger; David Novgoratz; Paul Novgoratz; Joe Ricca; Jennifer Cook; Lance McCann; Jesse Collins; Michael Lyman; Lane Martinez; Ryan Curran; Drew Curran; Holly Saucier; Clark Volker; Bev Volker; Andy Shelley; and Tim Cox of admissions.

Astros battle St. Louis Cardinals for alumni loyalty

Houston alumni, family and friends spent the evening of Sept. 13 at Minute Maid Park, watching the Astros defeat the Cardinals, 2-0, from seats along the first base line near the foul pole.

Astros pitcher Roy Oswalt thwarted the Cardinals' offense with seven shutout innings before a sellout crowd of 42,435. The win pushed St. Louis to 4^{1/2} games back in the National League Central Division race.

Oswalt allowed four hits, walked no one and struck out eight batters during a 95-pitch outing that gave him the slightest edge over Cardinal pitcher, Matt Morris, who was equally as stingy as Oswalt in the hit column. But Astros player Jeff Bagwell's solo homer off Morris in the fourth and Craig Biggio's RBI double made the difference during Houston's sixth shutout effort of the season.

Even though the Cardinals fans went home with a slightly bruised ego, they still are looking forward to returning to this event next year for a rematch! Many thanks go to Nicole Talbot for organizing and hosting this event.

Those attending included Wali Alam '76 with Shahed; Wayne '58 and Betty Andreas; Tom Barnes '00; Doug Cordier '91, '93; Michael '97 and Zachlyn '98 Farwig; Kipp '52 and Jerre Manley-Ferns; Harry FitzGibbon '52; David Gresko '81 with Matthew; Cory '01 and Shelley '00 Grettein; Jeff Hanley (son-in-law of Billy Thompson '59) with Steven and Lauryn; Dan Heitzman '89; Dan '73 and Dee '75 Hinkle with Travis and Victoria; Avery Ott; Casey Ramos; Gene '52 and Charlotte



Nicole Tablot and Russ Pfeifle enjoy the game.

HELP UMR AND HIGHER EDUCATION:



Zeb Nash and son join in with other Houston members to root for their home team: the St. Louis Cardinals.

Huffman; David '71 and Charlene Jones; Jon '79 and Madeleine Manning; Ed May '83, '95; Paula West; Jim Medlin '67; Walt Skleman; John Meyers '96, '00; Hugh '74 and Jeannie Murray with Todd; Zeb '72 and Harriet Nash with Robert, Barbara and Theo; Larry '98 and Elizabeth '00 Ragsdale; Curtis Smith '96; Jennifer Chien; Nicole Talbot '77; Russ Pfeifle '74; Carla Yager '79; and Tony Le Cara.

INDIANAPOLIS

Summer-end tradition begins

Thanks to the organization of Emily Wehmeyer, the Indianapolis Section had its first-ever summer send-off picnic at Cool Creek Park on Aug. 2. The group was small, but the conversation spanned a series of decades. Unfortunately, the '70s was not represented, but the stories from all other decades made up for the absence.

Attendees enjoyed a picnic-style spread of hamburgers and bratwursts, while sampling the dishes of their fellow MSM-UMR alumni. Members also discussed how they could work more closely with the university to recruit more students from the Indiana area.

The park's four-plus miles of trails, a playground, softball and soccer fields, and a nature center provided plenty of activities to keep everyone busy.

Those attending included John '85, '89 and Annette Brannon; Laura Wagner '02; Les '66 and Linda Stewart; Emily Wehmeyer '97, '00; and Don Bogue '55.

KANSAS CITY

Alumni prepare early for St. Pat's

Members of the Kansas City Section gathered at Paddy O'Quigley's in Lee's Summit for their summer happy hour on Aug. 28. Gearing up to make St. Pat's 2004 the "best ever," section members enjoyed a wide variety of appetizers and adult beverages to toast the end of the summer season.

Thanks go to Jim Van Acker and Ken Bandelier for planning and hosting this event.

Those attending included James Van Acker '98; Susan Barry '94; John P. Byrne '68; Randy Reece '89; Ken Drummond '86; Jerry '61 and Linda Edison; Jack Beale '72; Kenneth Bandelier '97; Bob Sauer '83; Brian Jones '01; Claire Elsea '03; Laura Lekar '03; Phil Heller '03; Jeremy Estep '98; Dick Ball '85; Doug Aitkens '99; Traci Walker '00; and Tiffany Christensen '98.

Alumni enjoy family night with the Royals

Alumni and friends gathered on Sept. 26 at Kauffman Stadium to cheer on the Kansas City Royals as they battled the Chicago White Sox for second place in the American League Central. The attendees took advantage of \$1 hot dogs, peanuts and soda during the evening, but they didn't get to celebrate a Royals victory. Luckily, the fireworks display at the end of the evening was enough to keep everyone's spirits high.

Thanks go to Ken Drummond for organizing and hosting this event. Hopefully, the outcome of the next year's game will favor the home team.

Those attending included Kenneth Bandelier '97; Bob '75, '00 and Charlotte Ronan; Bob '82 and Susie Glauz; Tom Westerman '82; Pat Centner '79; Craig Wakeman '99; Charles Weldy '57; Patrick Davidson '70; Brett Carstens '02; Danny Ward; Victor Poland '94; Bruce Taylor '70; Michael North '72; Matt '99 and Natalie '99 Denny; Todd Burrow '88; Jeremy Estep '98; Cory Stricklin '02; Roger McCloud '75; John Farrell '71; Sarah Maxon '97; Nathan Kaiser '96; and Ken Drummond '86.

LINCOLNLAND

Alumni get acquainted

Lincolnland alumni rolled out the welcome mat to new freshmen and a current UMR student during their annual student send-off picnic on Aug. 3. All attendees brought a dish to share with others, along with their stories of Rolla and UMR.

Thanks to the hospitality of Rich and Carolyn Berning, alumni, family and friends came together to enjoy good food and even better conversation. The Berning home is situated on Lake Springfield, which provided the perfect backdrop for all alumni and friends to discuss common interests.

Many thanks go to Tom Feger for organizing this wonderful event.

Those attending included Russ and Pamela Irwin; Benjamin Irwin; Rich '69 and Carolyn Berning; Jerry '64 and Marilyn Hoppe; Tom '70 and Sue Hoppe; Laura Hoppe; Linzi Rector; Tom and Cathy Rector; Lynn '68 and Judy Frasco; Wayne and Marilyn Dillinger; Renny Dillinger; Joel Schrenk; Harvey and Nancy Schrenk; John '69 and Paula Wiesenmeyer; and Tom Feger '69.

PACIFIC NORTHWEST

Section celebrates UMR's future

Members of the Pacific Northwest Section met with Chancellor Gary Thomas at the Seattle Yacht Club on Aug. 28. Alumni and their families enjoyed a wonderful dinner of New York sirloin or fresh fish, followed by an excellent report from Thomas on the status of campus.

In addition to the positive news regarding enrollment at UMR, Julie Turley shared a video with the group on the UMR Solar Car Team victory during the 2003 American Solar Challenge. By the end of the evening, the pride in the room was apparent as everyone celebrated the positive vibe surrounding their alma mater.

Special thanks to Stephen and Susan Wright and Pat Duvall for organizing and hosting this event.

check out the volunteer-run website www.joe-miner.com



Those attending included Ke-Ming Wu '68; Pat '62 and Kay Duvall; Stephen '68, '70 and Susan Wright; Zarko Teodorovic '02; Merle '70 and Jayne Hill; John Keibel '66; Bill '39 and Doris Rea; Pete Malsch '62; Erik '77 and Robin '78 Tilman; Joe '81 and Sandra Draper; Vance '74 and Sue Ellen Havens; Chancellor Gary Thomas; and Julie Turley of the development office.

PEORIA



Peoria alumni enjoy the comfort foods of baseball during a Chiefs game in July.

PHOENIX

Cardinals snap Diamondbacks winning streak

Members of the Phoenix Section met on Sept. 27 to help stir up interest in revitalizing their section and to find new section officers. The day's activities started at Alice Cooper'stown Restaurant. The atmosphere was not conducive to a business meeting, but acting-president Dave Akers still found several alumni interested in serving on an executive board and working to help the section move forward.

The group then moved to Bank One Ballpark to watch the Arizona Diamondbacks battle the St. Louis Cardinals. The Cardinals came away with the victory, beating the Diamondbacks 3-2 in front of more than 39,000 fans. MSM-UMR alumni were divided in their baseball loyalties, but united by a connection to their alma mater and memories of their time in Rolla.

Many thanks go to Akers for organizing and hosting this event. Due to his persistence and hard work, the Phoenix Section will no doubt be hosting many more future events.

Those attending included Dave '82 and Becky '84 Akers with Samantha; Karl '62 and

Carol Brown; Duane Bush '69; Matt '99 and Angela Clipper; Ed '65, '69 and Carol Cole; Randy Dietrich '70; Kim Harris '92; Leland Hauth '60; Kevin '94 and Mindy Hollander; Brian Johnson '00; Charles '51 and Jean Minnick; Andy '71 and Nancy Nolfo; Gene '62 and Judy Rand; Don '65 and Diane Spirk; Jeremy '99 and Shanda Vandembark; Todd '80 and Susan Vierheller; Mandy Wedertz '99 and friends; Stephanie Martensen of the alumni office; and Louise Morgan of development.

ROCKY MOUNTAIN

Alumni enjoy dinner with Chancellor Thomas

More than a dozen alumni and friends gathered at Rock Bottom Restaurant & Brewery on Sept. 20 to welcome Chancellor Gary Thomas and to hear a campus update. Rocky Mountain Section members were pleased to hear about the growth in enrollment and retention, as well as the exciting changes planned for campus facilities. Section members were particularly interested in the new "Mineral Rights Trophy Challenge," a football game between Colorado School of Mines and MSM-UMR planned for fall 2004.

Special thanks go to Clancy Ellebracht for organizing and hosting this event.

Those attending included Michael Beardsley '99; Clancy '64 and Sharron Ellebracht; David '85 and Cindy Grewe; Eugene '53 and Rose T. Lang; Shirley A. Reed '78; Roger '72 and Lynn Taylor; Stephen '68 and Shari Tebo; Dennis Thebeau '81 and Chancellor Gary Thomas.

ST. LOUIS

Alumni drive in record number at annual golf tournament

St. Louis alumni, family and friends spent a full day at Wolf Hollow Golf Course on June 28 to raise money for an endowed scholarship. With 123 players and an impressive list of sponsors, the section added \$2,910.30 to its scholarship fund — a record-breaking year all around!

Players began the day with a light lunch, as they registered and spent some time at the driving range preparing to make this their best game ever. Following a grueling competition

on the greens, they relaxed and enjoyed a pork steak dinner and heard a campus update from Provost Y.T. Shah. Shah delivered uplifting news of the increasing enrollment figures and shared an impressive set of building plans for the future.

Winners of the 2003 St. Louis Section golf tournament were as follows:

First Place: A Flight-14 Under Par, Net 57 were Chris Killian, Ted Rideout, Tom Thomas and Dave Dearth; First Place: B Flight-4 Under Par, Net 67 were Dan Chilton, Dennis Hartman, Dave Visintainer and Jim Hummert; Second Place: A Flight-12 Under Par, Net 59 were Chris Boone, Bobby Lyerla, Chris Beer and Rick Gildhaus; Second Place: B Flight-4 Under Par, Net 67 were Bill Sutton, John Dierker, Rich Mills and Gary Dyhouse; Closest to Pin were Todd Hornburg (Hole 5), Matt Bright (Hole 9), Joe Pfanckuch (Hole 14) and Steve Brunts (Hole 17); Longest Drive were Rich Gildhaus (Hole 8) and Marilyn Jozwiak (Hole 8), and Skins were the team of Howard Stine, Bill Stoltz, Kevin Jacobsmeier and Jack Bertelsmeyer, and the team of Chris Boone, Bobby Lyerla, Chris Beer and Rick Gildhaus.

The St. Louis Section would like to thank the following for their sponsorship of the tournament: Brock Haus Rentals, Alberici Constructors, Cochran Engineering & Surveying, Geotechnology Inc., Tarlton Corp., Shannon & Wilson Inc., Affholder Inc., Alternative Engineering, Anonymous, The Boeing Co., Brinkmann Constructors, Charles E. Jarrell Contracting, Edward Jones Co., Environmental Management Corp., Fred Weber Inc., Horner & Shifrin Inc., Independent Concrete Pipe Inc., Jacobs Civil Inc., Landmark Contract Management Inc., McCarthy Building Companies, Milt Murry, Phelps County Bank, Susan Rothschild, R.H. Tauser & Associates and the UMR civil, architectural and environmental engineering department.

Thanks also go to the following for donating attendance prizes: Dick Bauer, The Boeing Co., Design Nine Inc., Edward Jones Co., Geotechnology Inc., Charles E. Jarrell Contracting, Kozeny-Wagner Inc., Mark It-Custom Golf Accessories, Milt Murry, MSM-UMR Alumni Association, Russell Securities, UMR Football and URS Corp. Sign printing was provided by Metro Blueprint and Classic Color.

A huge thank you goes to Phil Jozwiak for all of his hard work and planning that helped make this the best St. Louis Section golf tournament ever.

Those attending included Phil Jozwiak '66; Steve Cronin '81; Chris Boone '90; Andy Tayon '80; Bill Sutton '63; Matt Dwyer '94;



Todd Hornberg; John Eash '79; Bill Falke '65; Dan Chilton '65; Sean McDermott '91; Bill Vondera '88; Chris Gottman '95; Gregg Carlson '77; Dick Bauer '51; Wayne Bennetsen '41; Kim Kramer '87; Dan Keuss '69; Ray Tauser '56; Milt Murry '64; David Strubberg '81; Howard Stine '70; Bryan Cassity '86; Bob Breen '82; Chris Killian '70; Coach Kirby Cannon; Joe Wildt '69; Rusty Goldammer '78; Adam Worobec '02; Jon Press '00; Gene Faenger '65; Ron Halbach '65; Bob Wesolich; Bobby Lyerla; John Chance; John Dierker '65; Dennis Tate '92; Nick Miskov; Greg Hicks '76; Ken Ferguson '65; Dennis Hartman '69; Dennis Yeh '90; Tim Schmidt '01; Justin Brooks '00; Doug Workman '71; Neal Dowling '51; Harry Scott '44; Sue Browne; Rich Keuss; Tom Herrmann '50; Ralph Wolfram '50; Wes Straatmann '01; Bill Stoltz '68; Jack Cassity; Roger Loesche; Ted Rideout; Joe Pfankuch; Doug Wildt; Tim Erman '80; Zach Larson '02; Rob Sutton '98; Bob Faenger '62; Randy Dreiling '81; George Spies; Chris Beer; Paul Conant '79; Rich Mills '63; Mike Traux; Frank Degraff; Bob Bieg '78; Jon Falke '83; Dave Visintainer '71; Bryan Bell '88; Bennie Gregory; Tom Hayes '74; Calvin Curdt '74; Rick Stephenson; Jack McKee '41; Marilyn Jozwiak; Brian Winschel '92; Steve Tauser; Chuck Grbcich '88; Dave Strubberg Jr. '81; Kevin Jacobsmeier '87; Mike Hutchison; Mike Timpe; Tom Thomas; Shawn Corbett; Shawn Brinker; Gary Mortensen; Lance Callaway '97; Zach Perry '01; Al Faenger; Mike Borgard '86; Steve Pilger; Rick Gildhaus; John Lodderhose '79; Gary Dyhouse '64; Dan Dwyer; Tim Davis '90; Tanya Bozdech '92; Jim Hummert '77; Matt Bright; Jim Engelhard '89; Dennis Coventon; Steve Brunts '78; Rich Permenter '99; Ed Goetemann '44; Laurie Kutz; Bill Keuss '98; Ed Tauser; Larry Krull '88; Shelby Anderson; Jack Bertelsmeyer '70; Keith Jansen; Shane Williams; Dave Dearth '68; Don Sparling '53; Derrick Engkelmeyer; Pete Telthorst; Eric Riley '03; Tony Geiser; Tom Schneider '75; UMR Provost Y.T. Shah; and Lucy Sutcliffe of the development office.

SOUTHERN CALIFORNIA

Chancellor brings news of promising future for UMR

Members of the Southern California Section had been rather inactive until lately. There has been some interest in bringing the group together, but the right activity never

seemed to present the opportunity — until July 20. That's when alumni and their families were invited to the home of Ken and Erika Riley to welcome Chancellor Gary Thomas to Southern California. Thomas delivered a state of the campus address that both inspired alumni and made them proud of the accomplishments of their alma mater. However, despite the good news over increasing enrollment figures, the buzz was centered around the UMR Solar Car Team, and the American Solar Challenge that was due to finish in three days.

UMR's team was in first place, and alumni were predicting how far ahead their team



Brian Call hangs a welcome banner in downtown Claremont, while UMR fans begin to line the streets for the arrival of the UMR solar car.

would be over the second-place winner. Adrenaline was flowing, as many alumni decided they would make it a point to be in Claremont to help bring in *Solar Miner IV*.

After a drought in Southern California activity, a second event was only three days away!

Those attending included Charles Mattson '79; Kristin Farmer; James '57 and Lynda Carnahan; Scott Boyd '74; Shafique Naiyer '63 with Fern and Zack; Yumin Wu '91; Songtao Luo '91; Mairah O'Callaghan; David Meller '99; Nathan Jaffee '41; Robert Rand '58 and wife; Scott '55 and Joyce Porter; Jim Gostin '44; Jim '60 and Annette Justus; Ron '64 and Mary Jean Henson; Jerry '71 and Georgia Sewell; Wei-Jer Han '95; Chia-Yueh Wei '94; Mike McGath '70; Wade '76 and Mary Jane Reinheimer; Donald Francis Harker '91; Mandy Wedertz '99; Ken '56 and Erika Riley; Chancellor Gary Thomas; and

Connie Eggert, vice chancellor of university advancement.

Alumni celebrate solar car victory

Alumni and their families joined the UMR Solar Car Team for a victory celebration at Cahuilla Park in Claremont on July 23. Some attendees battled the Los Angeles traffic for more than two hours to congratulate the team and share in the glory.

Following a dinner of roast chicken and potluck side dishes, School of Engineering Dean Robert Mitchell spoke to the group in jubilation as he recounted the second-place finish in 2001, the tremendous work the team performed, and the obstacles they overcame, for the 2003 race. Team members introduced themselves, displayed their winning trophy and sold T-shirts to help support the efforts of the next race in 2005.

The highlight of the evening for many of the children in attendance was the opportunity to sit in the solar car and have their picture taken. A huge thank you goes to Scott and Joyce Porter and Ron Henson for their contributions to the evening meal, and their help with organizing the event.

Those attending included Ron '64 and Mary Jean Henson with Michael and Sean; Kyle Kotula; Dana Kotula; Bill and Barbara Baughman; Brian Call '97, '99; Mike Turrentine '00; Daniel Bohachick '99; Michael Hunter '99; Scott '55 and Joyce Porter; Wade '76 and Mary Jane Reinheimer; Keith Gray '99; Jesse Dickinson '57; David Dickinson; George '81 and Cindy Harvilla with David and Michael; Ernie Mason '50; Richard Pumerantz and family; Jim Gostin '44; Brett and Donna MacDonald; Laura Brave '98; Diane Moellenhoff '98; Gary Pinkley '94; Dennis '78 and Nikki Heider; Sue Winscher '72; Cayla Jo Gilliam; Stanley '83 and Melissa Heaton; Tom Boon '75; Bill '80 and Gayle Glauz; William W. Chern '66; Robert Mitchell, dean of the School of Engineering; Julia Davis of the School of Engineering; UMR Solar Car Team members Doug Carroll, Sundar Srinivasan, John Tyler, Robert Becho, Andrew Baughman, Karl Neuman, Russell Molyneaux, Kerry Poppa, Michael Christie, Megan Struttman, Brad Albrecht, Jason Nolte, Scott Essner, Neal Essner, Srinivas "Jack" Jakkidi and Brendan Shaughessy; Andrew Careaga of the public relations office; Dulce Grotha, of the video communications center; Connie Eggert, vice chancellor of university advancement; and Stephanie Martensen of the alumni office.

19 30s

1938

Allen Bliss, PetE: "My wife, Sue, passed away Jan. 13, 2003. We were married 64 and one-half years. I have moved to a retirement apartment and am trying to get used to the new way of living."

1939

John D. Berwick Jr., MetE: "At 86, I am still active enough to garden and tend to the lawn and shrubs. I have given up golf, but still play bridge and bowl. I have reduced my travel schedule to visiting my three sons, grandchildren and one great-granddaughter."

19 40s

1940

Eugene L. Olcott, MetE: "I am gradually exiting the cattle farm activities. In progress is the donation of a 100-acre Potomac River bluff conservation easement. It is too beautiful for any residential building activities."

1941

James W. Jensen, Phys: "We sold our little ranch in Texas, where we enjoyed raising exotic deer and antelopes for eight years. We returned to North Augusta, S.C., where we are renewing friendships and enjoying family affairs, especially several great-grandchildren."

1943

Douglas N. Christensen, ChE: "After two years assaulting islands in the Pacific during World War II, I came home and via the GI Bill of Rights, I obtained M.S. and Ph.D. degrees from the University of Maryland, College Park. Then I spent several seasons developing a process for isolating and purifying gallium metal to meet the purity requirement for computer applications. Chemistry is a great laboratory sport. Still have enough energy to ride the range with five grown children (one a professor at UMR) and 13 grandchildren."

1948

James W. Hoelscher, PetE: "We just celebrated our 50th wedding anniversary. Our children gave us a great party with our grandchildren, nieces, nephews, original members of the wedding party and friends. I am also celebrating 55 years out of MSM-UMR." • **Wilden D. Rodden**, EE, had a stroke in January and has moved to a nursing home.

1949

George M. Anderson, MinE: "I have been retired since 1985." • **John W. Gosen**, PetE: "Adaline and I celebrated our 50th wedding anniversary in June. Our children, sons-in-law, daughters-in-law and 15 grandchildren (30 people total) joined us for three days at Monterey, Calif." • **Bettjeanne Puffett**, GGph: "My husband and I greatly enjoyed our alumni group's day at the races in May." • **Steve Wright**, ME'68, heads our Seattle alumni section and keeps us informed of all activities." • **Raymond H. Russell**, CE: "Despite the fact that I have health problems (massive stroke in 1995), I am doing well, thankful to be enjoying each day. I urge all to keep a positive attitude."

19 50s

1950

Sidney E. Duerr, PetE: "My wife, Joan, is currently in the Westwood Manor Nursing Home suffering from Alzheimer's disease. Otherwise, we're fine and enjoying the beautiful Corpus Bay scenery and gulf breezes. Come visit us." • **Robert C. Wood**, GGph: "During a recent stay in the hospital I had some MSM-UMR visitors, **Dick**, ChE'51, and **Shirley Bauer** and **Dave Grimm**, MetE'50. I am happy to say I am much improved and have gained half the weight I had lost."

1951

Gerald B. Bellis, CE: "Mary and I enjoy living in east Texas, where we moved after retiring at the end of 1988. We both volunteer with the Service Corps of Retired Executives (SCORE). Mary is a secretary and treasurer and I am a counselor. SCORE provides free counseling to small-business owners."

1952

John E. Evans, PetE: "Jackie and I enjoyed our 50th. Five fraternity brothers and their wives were there. Three of us were petroleum engineering grads, and **Len Koederitz**, ChE'68, gave us a nice tour. They have come a long way in 50 years." • **Waldemar D. Stopkey**, CE: "Moved during fall 2002 to Raleigh, N.C., to be closer to our daughter. We do miss New Orleans — after all, we spent almost 35 years in the New Orleans area."

1953

Walker L. Flood, ME: "I really enjoyed the golden alumni celebration in June. Those of us who were able to return to the university and attend this program were very fortunate. We were treated like royalty. My sincere thanks to those who made it happen." • **James R. Stowe**, EE: "My wife and son, Bruce, traveled to Ireland and Scotland last fall."

1957

Donald J. Roth, ME: "Retired on Sept. 1, 2003!"

1959

R. David Plank, CE, retired as director of engineering services at City Utilities of Springfield, Mo. • **Billy J. Thompson**, EE:

Weapons inspector 'on the record'

From identifying the nerve agent used in the Tokyo gas attack in 1995 to inspecting chemical weapons in Iraq after the first Gulf War, **James W. Poarch**, ChE'60, has put his chemical engineering expertise to good use for the international community.

Now a senior scientist for ITT Industries in Alexandria, Va., Poarch began working as a chemical weapons expert for the United Nations in 1993. His resume includes several UN chemical weapons inspection missions to Iraq after Gulf War I, a stint as chief inspector of Iraq's chemical fertilizer production facilities, a mission to inspect a Russian V-agent nerve gas production facility, and critical involvement in the investigation of the 1995 Tokyo subway gas attack. Poarch identified a key chemical signature that tied the release of the sarin nerve agent to the doomsday cult responsible for the attack.

Although he no longer is involved directly with weapons inspections, working with the UN was the highlight of his diverse career.

(continued on page 70)

HOMECOMING

Reunions



50 YEARS AND BEFORE

First row (left to right): Caroline Christensen, Doug Christensen, Ira Perkins, Arthur Shrubbsall, Roland Freidank, Ralph Wolfram, Ray Russell. Second row (left to right): Hubert Barger, Florence Roloff, Don Roloff, Aaron Greenberg, Lou Eissinger, Karl Eissinger, Ginny Wolfram, Justine Dietz, Robert Dietz. Third row (left to right): James Neustaedter, June Mulholland, Eleanor Higley, Mary Rothband, Paul Rothband, Joan Ryan, Robert Elgin, Caroline Elgin. Fourth row (left to right): John Toomey, Kelly Toomey, Joann Holcomb, Bill Higley, Ann Edwards, Gene Edwards, Harold Krueger, Vernon McGhee. Fifth row (left to right): John Schilling, Joe Berndt Jr., Ed Gygax, Henry Kurusz, Woody Holcomb, John Mulholland, George Bradshaw, Jewell LeSieur, Grace Mains.



1953

First row (left to right): Mollie Achterberg, Vivian Justice. Second row (left to right): Woody Knobel, Ernest Achterberg, Le Roy Justice.



1958

First row (left to right): Wayne Andreas, Paul Singer, Mary McGovern, Donald McGovern. Second row (left to right): Laverne Schaefer, Orville Schaefer, William D. Walker, Lu Walker, Elizabeth Schluemer, William E. Schluemer. Third row (left to right): Eugene Russell, Melvin Sherwood, George Tomazi, Sadegh Vakil.



1963

First row (left to right): Lonnie Shalton, Peg Baremore, Jim Baremore, Michael Smith. Second row (left to right): Jon Vaninger, Pat Vaninger, Rita Leifhelm, Wilma Brady, Dianne Farmer, Laverne Klier, Jerome Klier. Third row (left to right): Bill Sutton, Judy Sutton, Charles Diemer, Sherman Brady, John Farmer, Joy Adam, Everett Adam Jr.



1968

First row (left to right): Lora Lueck, Vicki Ricker, Gene Ricker, Linda Owens. Second row (left to right): Gail Lueck, Dixie Finley, Henry E. Brown, Jean Volk, Tom Owens. Third row (left to right): Ralph Lueck, Charles Finley, Ken Link, Roger Volk, Bill Henehan.



1973

First row (left to right): Carolyn Smith, Peggy Giles, Evelyn Gayer, John Gayer, Marsha Wilson. Second row (left to right): Frederick Smith, William Giles, Paul Giesecking, Willis J. Wilson, Chris Wilson. Third row (left to right): Hazel Botts, Mike Anderson, Roger Goodman, Diana Goodman, Frank M. Yates. Fourth row (left to right): John Botts, Dan Hinkle, William Brune, Robert Scanlon, Larry Hendren, Polly Hendren.



1978

First row (left to right): Bernie Brekrus, Karla Brekrus, Brenda Tenes Kvietkus, Patrick Kvietkus, Susan Callahan. Second row (left to right): Peter Horn, Karen Ludwig, Sue Aurelius, David Strawhun, Rosemary Strawhun, Diane Strawhun, Kay Thornton, Nancy Sooter. Third row (left to right): Kelvin Erickson, Mike Ludwig, Sheila Mueller, Jim Mueller, Brenda Ellerbrake Liescheidt, Kent Sooter. Fourth row (left to right): Edward Albee, Brian Kavanaugh, Jerry Buchheit, Kim Hemmann, Howard Hemmann, Jackie DeThorne. Fifth row (left to right): Tom Zuiss, Stephen Allen, James W. Parker, Kurt Rieke, Tom Fennessey, Robert Mitchell.



1983

Left to right: Todd Fizer, Mark Bryant, Maria Holmes, Richard Straeter, Sam Graefe, Doug Wesselschmidt, Susan Watson.



1993

Left to right: Carrie Seydel, Robin Seydel, Isaac Seydel, Lisa Gibson, Steve Gibson.



2003

Left to right: Curtis Robinson, Marty Rust.



1998

Left to right: Mark Crawford, LaTonya Crawford, Ty Sander, Tanya Sander, Lakshmi Krishnan, Murugan Padmanabhan.

HOMECOMING

Alumni Awards

The MSM-UMR Alumni Association honored a select group of alumni and friends for their dedication to the association, the campus and UMR's students



Alumni Achievement
BARRY KOENEMANN



Alumni Achievement
THOMAS OWENS



Alumni Achievement
DIANNA TICKNER



Alumni Achievement
THOMAS VOSS



Alumni Achievement
WILLIAM WEBB



Alumni Merit Award
WILLIAM KRUCKEMEYER



Robert V. Wolf
Alumni Service
BILL ENGELHARDT



Robert V. Wolf
Alumni Service
PAUL ROTHBAND



Distinguished Young
Alumnus
MARK CRAWFORD



Distinguished Young
Alumna
LISA KRUEGER



Distinguished Young
Alumna
SANDRA MAGNUS



Distinguished Young
Alumna
CATHERINE MCCAIN



Frank H. Mackaman
Alumni Volunteer Service
NICOLE TALBOT



Outstanding
Student Advisor
ABDELJELIL "DJ" BELARBI



Outstanding
Student Advisor
JOHN HOGAN



Outstanding
Student Advisor
EVALEE LASATER



Outstanding
Student Advisor
DONALD MYERS



Class '42 Alumni
Excellence in Teaching
WILLIAM FAHRENHOLTZ



Outstanding
Staff Member
PATRICIA ROBERTSON



Outstanding
Staff Member
AUDREY MORRIS

"My wife and I moved from Florida to Texas last year to be near the children and grandchildren. It's not much different — still hot as Hades and still in Bush country."

1960s

1961

Farouk El-Baz, MS GGph, PhD GGph'64, was appointed to the Human Rights Committee of the National Academies and elected member of the Draper Prize selection committee of the National Academy of Engineering. • **Bob Saxer**, CE: "We have established a new company, RHE-America, within our engineering design firm, Amceec. We're teaming up with a German firm for the design and turnkey installation of complete synthetic-resin and polymer-emulsion production lines. This includes proprietary instrumentation, sampling valves, online viscosity and pH control, and pilot plants. Be sure to visit us at www.rhe-america.com. This is going to be big."

1963

Richard L. Jaquay, CE: "My wife and I have returned to Arizona. I still work for Black & Veatch and I will be building a water-treatment plant for the City of Phoenix."

1965

Vibhakar R. Dave, Phys: "My son is a practicing ophthalmologist."

1968

Daniel L. Carnahan, CE: "I recently remarried and moved to Margate, Fla. My wife's name is Wendy." • **Bill Green**, CE, MS CE'69, president and chief executive officer of SCI Engineering Inc. in St. Charles, Mo., was named Employer of the Year in the service industry by the St. Charles Chamber of Commerce. • **Dennis Hetzel**, CE, has joined Heitmann & Associates Inc. as business development manager. The company provides consultation design, engineering and drafting services.

1969

Stanley Cary, EE, MS EMgt'98: "I continue to enjoy retirement from the city utilities. I am also staying busy with hobbies and community service. Priscilla and I recently spent a week in Hawaii and plan local trips with our RV. We greatly enjoy keeping our grandson, Alex, on a regular basis."

1970s

1970

Dan Jarvis, EE, retired as manager of AmerenUE's Osage Power Plant at Bagnall Dam on Jan. 31, 2003, after a 32-year career in the hydroelectric-power industry. • **Anthony F. Marchiando**, ME, joined Condaire Inc., as a chief estimator. Condaire is a mechanical contracting company based in Crestwood, Mo. • **Ralph J. Szygenda**, CSci, was elected to the board of directors of the Handleman Co., a music-distribution company with two operating divisions: Handleman Entertainment Resources and North Coast Entertainment.

1971

Lee A. Gladish, EE: "I retired from City Water, Light and Power in Springfield, Ill., on May 30, after 30 years of service. I had recently been appointed chair of the North American Electric Reliability Council's personnel subcommittee. With retirement I had to leave that position also, having served one year of a two-year term. I now plan to do catch-up projects around the house and play a little golf." • **Kenneth E. Martin**, CE, retired from local government after 30 years, most recently as deputy city manager in Glendale, Ariz., and started a new career as a senior consultant for Black & Veatch. • **Lenn J. Scheibal**, CerE, is president and CEO of General Sign Co. of Cape Girardeau, Mo., the largest exterior sign manufacturer in the state, and one of the largest in the Midwest.

1972

Lloyd A. Alinder, ME: "I am still an industrial engineer with Boeing. My family and I returned last year from a three and a half-year assignment in Prague, Czech Republic. It was a wonderful experience for the whole family." • **Steve Biederman**, CE, joined the St. Louis divisional office of Walton Construction Co. Inc. as senior project manager, after nearly 30 years in project engineering and management with Fru-Con Construction Corp. • **Michael L. Fureigh**, ME: "Julie and I got married on May 24, 2003. Hello to the guys from Kelly Hall!" •

James A. Mulligan III, GGph: "Just started my 30th year in oil and gas exploration and I'm enjoying the technical challenges more than ever. We're drilling a very-high-impact well for the company based on a geologic concept of mine. Our two oldest are in college, next three in high school and the youngest in junior high. We have managed to keep the household-pet population to two — Cookie, the dog, and McTibbles, the rabbit. Berna Harvey was the 'grand lady' of MSM-UMR for all times. What a truly remarkable and gracious person. Love you always, Mrs. H." (see related story on page 60) • **Dean A. Park**, EE: "Still president of BHMGE Engineers in St. Louis. After 31 years in the same location, we recently moved the office to Arnold, Mo. Visit us online at www.bhmg.com." • **Allan Reifel**, ME, MS ME'73, was appointed vice president of engineering at NORDYNE Inc., which manufactures heating and cooling equipment. • **Gregory E. Upchurch**, Phys, MS EE'85, left, a patent litigator, has joined Husch & Eppenberger LLC. Upchurch practices in the areas of intellectual-property litigation and technology licensing, and information-technology prosecution.



1973

John D. Lick, ME, retired from the U.S. Army Reserve as a colonel, after 30 years of military service.

1974

Lindell R. (Bob) Hurst Jr., MetE, MS MetE'77, MS EMgt'84, MS EMch'87: "After 28 years 'defending the Constitution against all enemies foreign and domestic,' I've retired as a lieutenant colonel from the U.S. Army Reserve. I remember it all, starting in Capt. Bryson's 1970 freshman ROTC class. My last assignment was as an instructor for a command and general-staff course in the 11th Battalion, 95th Division. Hello to all fellow cadets from the 1974 senior class." • **James J. White**, CSci: "In 2001, I left Hewlett-Packard after working there for 20 years. I now work for Hitachi Data Systems in Overland Park, Kan."

(continued on page 72)

Brockhaus honored

Robert H. Brockhaus, ME'62, was honored by the U.S. Small Business Administration as the Research Advocate of the Year at the 2003 National Entrepreneurial Conference and Expo in Washington, D.C.

Since 1987, Brockhaus has been the director of the Jefferson Smurfit Center for Entrepreneurial Studies at St. Louis University. He is the author or co-author of 12 books and more than 80 research papers, and has conducted research on entrepreneurship from psychological, sociological and environmental perspectives.

Brockhaus is also the president of Progressive Management Enterprise, a family consulting and real estate management firm founded in 1969.

Dace promoted to vice president

St. Louis-area mechanical contractor Murphy Co. has promoted **Tim Dace**, CE'75, to vice president of the company's heavy industry operations. Dace, of Sullivan, Mo., joined Murphy Co. in 1989. In his new position, he is in charge of the firm's heavy industrial business segment, including project work for oil refineries, power plants, steel mills and chemical plants.



Arnold appointed silver producer VP

James R. Arnold, MS EMgt'88, was recently appointed to vice president of technical services and projects at Coeur d'Alene Mines Corp., the world's largest primary silver producer. He will direct engineering, metallurgy, planning and project work for the company, including its developmental gold and silver projects in Bolivia and Alaska.

EMAIL

James Pazdera, EE'86, and **Evelyn (Bruno) Pazdera**, PetE'86, EMgt'87, pazderafamily@cox.net
Roger Protzman, GeoE'93, rprotzman@jeo.com
John Skiffington, ChE'87, jdsriffington@hotmail.com

SEND YOUR EMAIL TO ALUMNI@UMR.EDU

Krem runs family business

The adage "like father, like son" hits close to home for **Barry Krem**, MetE'68, MS MetE'71. While attending UMR, Krem had no plans to run Reliable Finishing Co., a St. Louis-based painting and coating business founded by his father and uncle. An interest in manufacturing, however, led Krem to explore the metallurgical field that inspired his family's business.

Krem has now run the company for more than 10 years and says he considers his work to be challenging, yet mentally fulfilling.

Williams wins GEM award

Ken Williams, EMgt'71, of West Bloomfield, Mich., received the Rev. Theodore Hesburgh Leadership Award at the joint conference of the National Action Council for Minorities in Engineering (NACME) and the National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM). The award is given to a GEM board member who has been a model of support for the entire organization.

Szygenda knows what's good for GM

Ralph J. Szygenda, CS'70, group vice president and chief information officer of General Motors Corp. and speaker at the May 2003 UMR commencement, sounds off with eWeek: *The Enterprise Newsweekly* (www.eweek.com) about the next level in vendor contracting at GM.

Szygenda is developing a kind of USB of technology business methods — developing one "port" to connect a variety of services. This new outsourcing philosophy, called "precision information technology," is economical and brings the right technology directly to the business problem, he says. Szygenda is also developing a strategy to get vendors to work together to develop a better overall product.

Still friends after 46 years

Eight college friends and former house mates

recently met at UMR to catch up with each other and visit their old house on 12th Street. Many of them hadn't spoken in the more the 46 years since graduation, but Don Kissling, GGph'58, says after a few hours together it was "just like old times." This group includes Ray Bucy, ME'58; Jim Lorenz, CE'57; Dick Mason, EE'57; Larry Oppliger, Phys'57; Marion Skouby, CE'58; Bill Skouby, Central Missouri State College, Math'59; and C.J. Vetter, ChE'57, MS ChE'60.

"When we first gathered for our reunion our minds labored with the altered appearance of our formerly youthful house mates," says Kissling. "But before the evening

was concluded our eyes concentrated instead on well-remembered postures and personal nuances and our ears heard those distinctive voices and the laughter we knew so well so long ago. By the next day it seemed as if we had been separated only a few months, as if this was just another September back-to-school day following a summer vacation. All of us had earned advanced degrees and had gratifying careers as engineers, scientists and educators. We concluded that each of us had been most fortunate in life. Our years at the Missouri School of Mines, and Rolla, played no small part in that."



Above: September 2003 outside Hawkins Hall with (from left) Vetter, Opplinger, M. Skouby (hiding), Lorenz, B. Skouby, Bucy, Kissling and Mason.



Above: Winter 1956 in Hawkins Hall with (from left) Mason, Bucy, B. Skouby, Kissling, M. Skouby (standing), and Oppliger.

1975

Thomas Borowiak, EE, was named interim chief executive officer for Citizens Electric Corp.

1976

J. David Lomax, NDD, is a member of the Lewis County Emergency Management Team. As incident commander, he responded to the tornado that hit northern Missouri on May 10, 2003, coordinating search and rescue relief efforts. • **Mike Watkins**, Psyc: "I recently accepted a promotion to associate regional director of finance for the southern region of the Boy Scouts of America, headquartered in Kennesaw, Ga., near Atlanta. I am responsible for coaching Boy Scout CEOs who need help raising money to finance their local councils. The southern region includes 94 local councils in 11 states in the southwestern and southeastern U.S."

1977

Brad Parrish, CE, MS CE'78, was installed as vice president of the Missouri Society of

Professional Engineers. He is the co-founder and vice president of Palmerton & Parrish Inc.

• **John Persson**, ChE, was featured in the March 2003 issue of *CEP Magazine* explaining his role as supervisory control and data acquisition design engineer for Columbia University's Biosphere 2 project. He programs the automation equipment to control the temperature, humidity, carbon-dioxide levels, rainfall and air flows in Biosphere 2, one of the largest living laboratories in the world. More information is available online at www.bio2.columbia.edu.

1978

James L. (Von) Cawvey, ME, received an Individual Lifetime Achievement Award from ConocoPhillips in spring 2003. Of its 58,000-person worldwide workforce, Conoco-Phillips only gave out three such awards this year. • **Martin D. Hoffman**, ChE: "I now live in Sacramento, Calif., where I am chief of physical medicine and rehabilitation (PM&R) for the VA Northern California Health Care System and a professor of PM&R for the University of California, Davis. I have

previously been professor, residency-program director, and interim chair of the PM&R department at the Medical College of Wisconsin." • **Gary R. Maxwell**, ChE: "I am the author of a chapter titled 'Synthetic Nitrogen Products' in the 10th Edition of *Riegel's Handbook of Industrial Chemistry*, published early in the summer of 2003." • **Stephen J. Rethmeyer**, EE: "I just celebrated my 25th year with the U.S. Federal Aviation Administration!" • **Jesse Sherwood**, EE: "I recently embarked on a new venture as owner of Executive Helicopter Solutions at Johnson County Executive Airport in Olathe, Kan., after 26 years in the broadcasting and telecommunications industries. We are the only helicopter charter, rental and flight-training service between St. Louis and Wichita, Kan., and provide helicopter services to the north-central United States. My website is www.hometown.aol.com/kchicopters."

1979

Kevin R. Eisenbeis, CE, was named 2003-2004 chair of the American Council of Engineering Companies of Missouri (ACEC/MO). The council represents business and legislative interests of more than 100 engineering companies in Missouri. Eisenbeis is senior vice president of Harrington & Cortelyou Inc., a transportation engineering firm headquartered in Kansas City, Mo. • **Brian A. Heuckroth**, EE: "Bernie (Harvey) was an inspiration to me. I spent four years at UMR, all connected to the Student Union Board — fine arts chair my junior year and SUB president my senior year. Bernie was a promoter of students and

opportunity, and a model for how adults in authority should behave. It is indeed fitting to give her this honor. Well done!" (*See related story on page 60*) • **Charles Mattson**, EE, was inducted into the first level of the Naval Air Systems Command Fellows Program in May 2003, which signifies he is among the top three percent of all scientists and engineers in Naval aviation today. Mattson has been employed by NAVAIR and its predecessors for 23 years. His area of expertise is electronic warfare test and evaluation threat simulation.

1980s

1980

Wilbon Cooper, EE, was named manager of rate engineering in the corporate planning area of the Ameren Corp. St. Louis headquarters. • **Tom Mueller**, EMgt, was named division head at CreditRight, a new division of St. Louis-based American Equity Mortgage. • **Tim Williams**, CE, joined Paric Corp. in O'Fallon, Mo., as a project director. He has been in construction management for 16 years.

1981

Steve Cronin, CE, was recently designated certified professional constructor (CPC) at Tarlton Corp. after a rigorous two-step qualification process based on experience,

education and written examinations. Cronin, vice president of the company's concrete group, has worked at Tarleton since 1989. • **Rebecca S. Reed**, CSci: "I am still surviving the bad economy in a company that has been sold again! I enjoy working on the software in medical devices."

1982

David A. Brewer, ME, joined Clayco Construction Co. as a project executive. He will focus on new business and project development, with an emphasis on healthcare and institutional technology opportunities. • **Gregg Lehenbauer**, ME, and his family moved to Zacapa, Guatemala, last summer to work for House of Hope, an orphanage run by People for Missions. He is in charge of all the buildings and maintenance and plans work details for visiting groups who come for short-term projects. His wife, Laura, is a pediatric nurse who helps set up and administer medical clinics in the mountains around Zacapa. She also helps with the medical needs of the orphans. • **Dennis R. Nethington**, GGph, MS GGph '85: "I am still working as an accountant and **Nancy** (GGph '85) is starting her second year as a substitute teacher in the Rockwood School District. The kids are back in school, ranging from first to 11th grade."

1984

Mark Beasley, EMgt, is stationed in Qatar as an apprentice electrician in the 823rd Red Horse Squadron of the U.S. Air Force. The group provides highly mobile, self-sufficient, rapidly deployable civil engineering capabilities. • **Charles B. Derbak**, EE: "I am

(continued on page 74)

Audio junkie tunes in to business opportunity

Wouldn't it be nice to be able to listen to your library of songs and movie sounds stored on your computer by tuning into any old FM stereo?

Marshall Strouse, EE'92, thinks so. With the help of the five other members of his crew at Engineered Audio — a St. Louis-based company Strouse launched in 2002 — he created Aurius, a card-deck sized device that lets users listen to music wherever and whenever they want.

Aurius is like having your own radio station, says Strouse. Using an FM transmitter, Aurius can send any type of sound stored on the computer through receivers found on stereos and Walkman players.

Aurius — recently featured in *Forbes Magazine* — is just one of the products Engineered Audio is developing. They can be purchased directly from the company's website at www.engineeredaudio.com.

UMR played a big role in helping the business get started, says Strouse. **Frank Liou**, professor of mechanical and aerospace engineering and engineering mechanics and director of the manufacturing engineering education program, made prototype plastic cases in UMR's Virtual Reality and Rapid Prototyping Laboratory; **Thomas Van Doren**,

professor emeritus of electrical and computer engineering, **Todd Hubing**, professor of electrical and computer engineering, and **David Pommerenke**, associate professor of electrical and computer engineering, allowed Strouse to do testing in the Electromagnetic Compatibility Lab; and **Clayton Price**, instructor in computer science, helped him find part-time programmers for Engineered Audio's software development activities.

"Right now we have one UMR alum as a part-time employee, **Joe Haas**, EE'89, and we hope to employ other UMR grads as soon as we can justify pay," Strouse says. He believes that the education he received from UMR was very worthwhile. "The breadth of my education, be it math, engineering, computer science and even participating on the UMR Formula SAE Team, helped form a great base," he says. "And today I have to wear many hats in marketing, sales, engineering, management, purchasing, and shipping — the fundamentals of which I was exposed to early on at UMR."



Marshall Strouse

FUTURE MINERS

Sang Burton, EE'96, and his wife, Christy, had a boy, Garrett Nathaniel, on July 5, 2002. He joins big sister Charley Elizabeth.



Garrett Burton gets a kiss from big sister Charley.

Steven Howard, ME'93, and his wife, Yvette, had a boy, Mitchell, in November 2002.



Paul Huber

Mark Huber, ME'93, and his wife, Lisa, had a boy, Paul Joseph, on Aug. 28, 2002.

Patricia O'Brien, EMgt'84, and her husband, Thomas, had a boy, Sean Patrick, on June 20, 2001. He joins Erin, 4, Tommy, 3, and Brendan, 3.

Todd Owens, ME'98, and his wife, **Amy (Swanson)**, CE'97, had a girl, Annika Rose, on April 29, 2003.



Annika Owens

Roger Protzman, GeoE'93, and his wife, Tricia Ann, had a boy, Matthew, on May 16, 2002. He joins Benjamin, 8, Abby, 5, and Grace, 3.

Kristy Rowe, EngI'01, and her husband, Chris, had a girl, Kaylie Ann, on April 14, 2003.

Steve Schrick, ME'95, and his wife, **Rayna (Koopmann)**, ME'95, had a son, Ryan Austin, on Sept. 30, 2002.

John Skiffington, ChE'87, and his wife, Lisa, had a girl, Olivia Rae, on April 9, 2003.

Michael Stevinson, MinE'99, and his wife, **Heather (Nations)**, BioS'99, had a girl, Anna Ruth, on June 17, 2003. She joins 20-month-old Joseph.



Anna Stevinson



Wilson Hughes EE'69 with his grandson, Zachary Von Bergan.

applying to the Boeing Technical Fellowship as an associate this year. Wish me luck!" • **Steven J. Poppe**, ME: "After being mobilized in support of Operation Enduring Freedom and Operation Iraqi Freedom, I have returned to regular active duty in the U.S. Navy. Margie and I are looking forward to our future assignment in Korea." • **David Theisen**, EMgt, is a lieutenant colonel in the U.S. Army. He served in Kosovo and Bosnia, doing land mine demolition.

1985

Craig Hartmann, EE, joined Sonacom as a CAD engineer. He brings 17 years of engineering experience to the position.

1986



Mark C. Birk, EE, MS EE'91, left, was named vice president of AmerenEnergy Inc. and energy supply operations for Ameren Corp. He and his family reside in south St. Louis County. • **Bruce Dunnihoo**, EE: "This is my eighth year with the National Weather Service as an information technology specialist in Pleasant Hill, Mo. (near Kansas City). This year produced some real tornado weather events and kept the office hopping. Record setting! Diana and I continue to live in Blue Springs, Mo. Keep on angling and enjoying it. Life is very, very good." • **Sandra Magnus**, Phys, a NASA astronaut, was keynote speaker at a two-day Earth Day celebration sponsored by the National Shrine of Our Lady of the Snows in Belleville, Ill., with 700 grade-school students in attendance. In October 2002, Magnus flew 4.5 million miles aboard Space Shuttle Atlantis, helping deliver 1,000 pounds of food and supplies to the three astronauts working and living aboard the International Space Station. • **James Pazdera**, EE: "Evelyn, PetE'86, EMgt'87, and I are still in Prairieville, La. I still work for Motiva Enterprises and Evelyn is teaching math in Baton Rouge, La. Old friends can drop us an email at pazderafamily@cox.net." • **Donald Schnefke**, MetE: "I thank God for a God-fearing woman and five healthy children." • **Kevin W. Schneider**, EE, MS EE'89, PhD EE'92, was named chief technology officer at ADTRAN Inc.

Service as an information technology specialist in Pleasant Hill, Mo. (near Kansas City). This year produced some real tornado weather events and kept the office hopping. Record setting! Diana and I continue to live in Blue Springs, Mo. Keep on angling and enjoying it. Life is very, very good." • **Sandra Magnus**, Phys, a NASA astronaut, was keynote speaker at a two-day Earth Day celebration sponsored by the National Shrine of Our Lady of the Snows in Belleville, Ill., with 700 grade-school students in attendance. In October 2002, Magnus flew 4.5 million miles aboard Space Shuttle Atlantis, helping deliver 1,000 pounds of food and supplies to the three astronauts working and living aboard the International Space Station. • **James Pazdera**, EE: "Evelyn, PetE'86, EMgt'87, and I are still in Prairieville, La. I still work for Motiva Enterprises and Evelyn is teaching math in Baton Rouge, La. Old friends can drop us an email at pazderafamily@cox.net." • **Donald Schnefke**, MetE: "I thank God for a God-fearing woman and five healthy children." • **Kevin W. Schneider**, EE, MS EE'89, PhD EE'92, was named chief technology officer at ADTRAN Inc.

1987



Robert Fritz, CE, left, joined Clayco Construction Co. as a project director. He will join the company's project management team and work in new-business development.

'The Bachelor' to appear on the big screen

ABC's "The Bachelor," **Aaron Buerge**, ME'97, ditches roses and reality television for a chance at the big time, agreeing to star in the feature-length romantic comedy *Antlers*. Flooded with movie offers, Buerge finally chose the independent film by Cactus Animal Productions for his big screen debut.

"It has a unique premise, memorable characters and tells a compelling tale with universal appeal. It reminds me of some of my favorite films such as *Almost Famous*, *American Graffiti* and *Good Will Hunting*," says Buerge in an interview with Cactus Animal Productions.

Antlers, set on the University of Missouri-Columbia campus, is written by R. Scott Murphy, a UMC alumnus. The storyline follows Murphy's funny experiences as a student there, including a string of events that occurs when the main character tries to win a girl's heart.

Cactus business manager Tracy Caraway says, "We think Aaron has huge potential. It wouldn't surprise me to see Aaron compared to Ben Affleck, Tom Cruise and Brad Pitt in box office drawing appeal in the future."

1988

Julie Fuemmeler, CE: "We are keeping busy in Glasgow, Mo. Barry is now an electrical estimator with Kansas City Power and Light and I am a stay-at-home mom with our four kids." • **Jon Jacobsmeyer**, CE, joined McCarthy Building Companies Inc. as senior project manager for the Midwest division. He has more than 20 years of construction experience around large and complex projects in the industrial and manufacturing markets. • **James Trautman**, EE, joined Sonacom as a project engineer. He has 15 years of industry experience and is a registered professional engineer in Missouri. • **Ramona Tumblin-Rucker**, PetE, joined Legacy Building Group LLC as project manager. She will direct the execution and planning of contract requirements, risk assessment, budget preparation, schedules and project procedures, and will also oversee cost and quality control, code complications, safety, document reviews and field inspections. • **Michael J. Wisdom**, EE: "Somehow I doubt if anyone back there remembers me, but please know that I remember you all. UMR is a wonderful school and my undergraduate work there was brutal – I sure miss those days! Encourage the students, let them know that I have been in the industry almost 20 years now and the educational training I received from UMR has never let me down. God bless you all."

1989

Steve Starrett, CE, associate professor of civil engineering at Kansas State University, was named 2003 Outstanding Young Engineer of the Year by the Kansas Society of Professional Engineers. He was nominated by the group's Tri-Valley chapter. • **Dale Vehlewald**, CE, was named civil engineering manager for AFRAM Corp.

1990s

1990

Daniel A. Crowe, EE, was elected partner at the Bryan Cave law firm in St. Louis. He joined the firm in 1994 and is currently a member of the intellectual property client service group. • **Jeff Lambert**, CE, was promoted to southern area engineer with the Missouri Department of Transportation. As the local transportation contact for residents in Dunklin and Pemiscot counties and portions of Stoddard and New

(continued on page 76)

Weddings

Joshua Antweiler, EE'03, and Sarah Martin were married on May 24, 2003, at St. Thomas More Newman Center in Columbia, Mo. The couple resides in Denver, Colo.

Derrick Bachtel, EE'97, and Amy Harman were married on June 15, 2002, at the First Baptist Church in Salisbury, Mo.

Faith Bass Buell, Psyc'95, married Richard Buell in October 2002.

Eric Distler, ME'01, and Julie Curtman were married in July 2003, in their hometown of Jefferson City, Mo., and honeymooned in Hawaii.

Michael L. Fureigh, ME'72, and his wife, Julie, were married on May 24, 2003.

Donald Hills, CE'98, and Kerri Davis were married on June 14, 2003, in Summersville, Mo. The couple resides in Fremont, Mo.

Scott Hopper, ME'98, and **Jennifer Damron**, BioS'98, were married on April 26, 2003, at St. Paul's Lutheran Church in Des Peres, Mo. The couple resides in St. Louis.

Justin Lamar, ChE'95, and Nancy Erickson were married on May 28, 2003, on the beach in Marco Island, Fla.

Michael W. Long, CE'70, and Delight Benson were married on April 26, 2003, at Eastside Baptist Church in Fort Smith, Ark. The couple resides in Fort Smith.

Eric Moore, EMgt'01, and Tiffany Barlow were married on May 31, 2003. The couple resides in Perryville, Mo.

Matt Oetting, CE'97, married Gretchen Ramey in June 2000.

Sarah Palmer, GeoE'00, and Dan Wiszkon were married on May 25, 2003, at Christ Memorial Lutheran Church in St. Louis. Four of her UMR Kappa Delta sorority sisters — Rachel

Fauss, Mari Hutchison, Amy Elias and Corie Reeves (NucE'01) — were in the wedding, along with fellow UMR friend Josef Seale.

Jack Phipps, ChE'00, and Kristina Bullard were married in Schwenksville, Pa., on Sept. 7, 2002. The wedding party included Lambda Chi Alpha fraternity brothers Aaron Phipps, Andy Singleton, Troy Williams, Josh Colwell and Bryce Ormiston. The couple resides in Cary, Ill., a northwest suburb of Chicago.

Steve Pickardt, ChE'01, and **Katie Zwick**, CE'02, were married on May 24, 2003, at the Ferguson United Methodist Church in St. Louis.

Douglas Rauscher, EE'00, and **Holly Will**, EE'00, were married on April 21, 2001. The couple resides in Melbourne, Fla.

Kristy Rowe, Engl'01, married Chris Rowe on April 27, 2002.

Justin Ryan, EE'99, and **Melissa Lane**, ChE'97, were married on June 7, 2003, in Houston.

Neil Stewart, EE'02, and **Sunyi Boyce**, ChE'01, were married on Nov. 15, 2003, in St. Louis. The couple resides in Los Angeles.

Michael Stock, ME'02, and **Sarah Bruening**, GeoE'02, were married on May 24, 2003. The couple resides in Rolla, Mo.

Jeffrey P. Stricker, ChE'98, and Emily Wilson were married on Nov. 9, 2002, at Holy Name of Mary Church in Algiers, La. The couple reside in Harahan, La.

Kenneth Voss, CE'96, and Susan Stackelhouse were married on Oct. 19, 2002.

James Witt, MinE'00, and Cristina Lara were married on May 3, 2003, at St. Peter's Cathedral in Belleville, Ill.



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A public service announcement from the MSM-UMR Alumni Association.

Madrid counties, Lambert is responsible for addressing the area's transportation needs and communicating the department's mission. • **Tracy S. Perkins**, ME, joined the law firm of Husch & Eppenberger LLC in the environmental and regulatory practice group where she focuses on environmental and occupational safety and health law. • **Randy Tucker**, CE, was named chief information officer at UMR. He oversees computing and telecommunications services on campus. Tucker previously served as vice president of operations for Williams Communications Group in Tulsa, Okla. • **Mike Widman**, CE, opened Quality Testing and Engineering Inc. in Fairview Heights, Ill., in April 2000, after working 10 years for an engineering consulting firm. The company, now located in O'Fallon, Ill., offers complete consulting and testing services for commercial and residential projects, serving clients in both Missouri and Illinois.

1992

Paul Kusterer, EE: "**Sandi (Todd)**, ChE'94, and I are still living in Plano, Texas, and loving every minute of it. I passed my professional engineer's exam last summer and I am now licensed in Texas. Sandi is busy at home with Megan, 5, Joshua, 2, and Eric, 9

months. There is never a dull moment. God continues to richly bless us!"

1993

Roger Protzman, GeoE: "I am in Nebraska designing water and wastewater systems. I have four future Miners: Benjamin, 8, Abby, 5, Grace, 3, and Matthew, 1. Contact me at rprotzman@jeo.com." • **David Renfert**, ME: "I am living in Kansas City and working as a product manager for BHA Group. I regularly give technical lectures around the country. In 2002, I taught my first three-day technical course for The Center for Professional Advancement." • **Debbie L. Runkle**, GeoE: "Looking for new employment in the far west suburbs of Chicago. Any ideas?" • **Lance Schuette**, GeoE, recently completed training in "Solving Water Intrusion and Mold Problems." He is an environmental specialist at Klingner and Associates P.C., where he is responsible for environmental-assessment projects, environmental permits, Phase I audits and remediation studies. • **Thomas R. Sellers Jr.**, EE, is married with one son and is a senior systems architect with Entec Inc. in Norcross, Ga.

1994

Sandi (Todd) Kusterer, ChE: "My husband, Paul, EE'92, and I are still living in Plano, Texas, and loving every minute of it. Paul passed his professional engineer's exam last summer and is now licensed in Texas. I am busy at home with Megan, 5, Joshua, 2, and Eric, 9 months. There is never a dull moment. God continues to richly bless us!" • **Mark Rollins**, EE, transferred from the Dairy Farmers of America DairyConcepts LLC in April 2002. He is plant manager of the Springfield, Mo., nutritional division. • **Scott Schneider**, GGph, joined West Plains Bank and Trust Co. as network and computer administrator. He is responsible for all aspects of the day-to-day management of the bank's computer network systems.

1995

Faith Bass Buell, Psyc: "I was married to Richard Buell in October 2002. We have a 2 1/2 year-old daughter named Jacqueline Rae Bass Buell. I work in the social services field with the mentally ill as a case manager — I'm actually putting my degree to work." • **Jason A. Giles**, Chem: "I started a new career recently and it has taken me down to sunny Florida. I am a senior software engineer at Nationwide Money Services Inc. in Ponte Vedra, Fla. My wife, Billie Jo, and I just bought a new house in St. Augustine, Fla." • **Tamra Jean Scheibhofer**, EMgt, deployed with the 180th Airlift Squadron of the Missouri Air National Guard to southwest Asia in March to support the fight against terrorism. She is a pilot flying the C-130 Hercules for the 139th Airlift Wing. Her husband, **Chris**, MetE'95, and 20-month-old son, Nate, are living the bachelor's life and trying to stay out of trouble. • **Steve Schrick**, ME, and his wife, **Rayna (Koopmann)**, ME'95, recently relocated from Northern California to Knoxville, Tenn. Steve works for CPS Innovations designing medical-imaging equipment. Rayna enjoys her time at home with their two boys, Riley and Ryan, as well as being actively involved in community activities. • **Steve Young**, GGph: "I received a master's degree in geology from Arizona State University in 1998 and expect to receive a Ph.D. in geosciences from the University of Arizona this year. After that I am off to 'The Big Easy' to work for Shell Offshore Inc. If you are ever in the French Quarter, look me up."

1996

Ryan Brown, ME, was promoted to manager of the Delores Moye Elementary School and Renaud Spirit Center projects for Morrissey Construction Co. He joined the firm in June 2000. • **Eric Kirchner**, CE, joined Pickett, Ray and Silver as a project engineer. • **Michael Monterastelli**, GeoE: "I have been accepted into a four-year pastoral-training program at Concordia Theological Seminary in Fort Wayne, Ind. Class began June 9, 2003. You can check it out at www.ctsfw.edu." • **Tina Steck**, EMgt: "I finished both the Walt Disney World Marathon in January and the St. Louis Marathon in April as part of the Leukemia and Lymphoma Society's Team in Training Program and raised more than \$5,000 to fight blood-related cancers."

1997

Ramin Ashrafzed, CE, was promoted to transportation and civil project engineer at Horner & Shifrin. • **Brian Booth**, CSci, works at Edward Jones St. Louis and serves as a chapter advisor for the UMR chapter of Delta Tau Delta fraternity. • **Mark Croarkin**, CE, was named resident engineer in MoDOT's Troy, Mo., construction office. • **William D. "Shank" Derge**, AE: "I'm an F-15E pilot in the U.S. Air Force currently deployed for an undetermined amount of time to the Middle East in support of Operation Iraqi Freedom. I'm stationed at Lakenheath Royal Air Force Base in England. Hopefully I'll be home by Christmas!" • **Bonnie Garrison**, Hist: "I accepted a position as development manager for Seton Center Family and Health Services in Kansas City, Mo." • **Daniel Kammler**, CerE: "Hello all! I finished up my Ph.D. in materials science at Northwestern University in September 2001. I married a wonderful and beautiful woman, Vivian Guzman, in April 2002. We both work at Sandia National Laboratories in Albuquerque, N.M. We bought a house in August of last year. So far, it's just us and an orange tabby named Winston." • **Chang Li**, CSci: "My daughter, Naomi, is 5 1/2 now." • **Marc McManus**, ME: "I passed my PE in April 2003. I work for Jacobs Engineering in St. Louis, designing process and industrial HVAC and utility systems." • **Jonathan Robison**, CE, MS CE'03, recently joined SCI Engineering Inc. as a project engineer in the company's geotechnical services group. • **Melissa (Lane) Ryan**, ChE: "Justin Ryan, EE'99, and I were married on June 7, 2003, in Houston. We bought a house in Houston in April, and are getting used to the married life. I work as a project supervisor for Trinity Consultants and Justin is a project engineer for Rockwell Automation."

1998

Erik Anderson, ME: "After passing the exam in April 2003, I am now a registered professional engineer in the state of Missouri. I work for the Paul Mueller Co. in Springfield, Mo., as product engineer for the Pure Water division, servicing the biological and pharmaceutical sector. I'm busy as the autocross manager and webmaster for our local chapter of the Sports Car Club of America, and racing my car at Hallett Motor Racing Circuit, among other racetracks." • **Barbara Baird**, Engl: "I sold an article to the *St. Louis Post-Dispatch* and my column, 'Accidental Ozarkian,' was picked up by *The Ozarks Mountaineer*, a monthly publication. I also taught a workshop at UMR on creative nonfiction in July 2003." • **Peggy Sue**

Borrok, BioS: "My husband, **Dave**, GeoE'95, is working on his Ph.D. at the University of Notre Dame. Our son, David Jr., was 2 in June." • **Sadie Burke**, GeoE: "I received a promotion to a CE III with the Illinois Department of Transportation in August 2002. I am studying for the PE exam." • **Nathan Hoven**, Math, was named interim assistant principal and administrative intern at Pattonville High School for the 2003-2004 school year. He has been a mathematics teacher there for four years. • **Steven Kovace**, CSci: "My business partner and I co-founded the software development company Fathom Image LLC in February 2002. We are both UMR computer science graduates. We released our debut software title, Vector Mirage, online several weeks ago. Check out our website at www.fathomimage.com." • **Matt Mettemeyer**, CE, joined Mettemeyer Engineering LLC as a project engineer. His responsibilities include design and analysis of wood, concrete, steel and masonry building structures. • **Kerry Risser**, CE, was named Young Engineer of the Year by the Fort Worth chapter of the Texas Society of Professional Engineers. Risser is an engineering analyst with Kimley-Horn and Associates, a national consulting engineering firm. • **Robert Schiffer**, CE, joined CB&E Construction Group as a project manager. • **David Tag**, CE: "I recently completed my registration as a licensed professional engineer and started a new job as project manager with APAC-Missouri Inc. in Columbia, Mo."

1999

Steve L'Hommedieu, CE, was promoted to project manager at Paric Corp. • **Carl Pawling**, Math, recently began working toward a master's degree in operations research at the Air Force Institute of Technology at Wright-Patterson Air Force Base in Dayton, Ohio.

2000s

2000

Elizabeth Morris, GGph: "I received a National Defense Science and Engineering Graduate Fellowship for support in pursuing my Ph.D. in geological and environmental sciences at Stanford University." • **Douglas Rauscher**, EE: "Holly Will, EE'00, and I were married on April 21, 2001. We moved to sunny Melbourne, Fla., took jobs with Harris

Corp., and bought our first house. We are both currently working on master's degrees in electrical engineering at Florida Institute of Technology. We both have been promoted to EE2 at Harris." • **Patrick Schroeder**, CerE: "I was recently promoted to senior engineer at CTS Communications Components in Albuquerque, N.M." • **Sarah (Palmer) Wiszkon**, GeoE: "I'm still employed by the Illinois Department of Transportation in Collinsville, Ill., as a junior geotechnical investigations engineer. I am attending graduate school at Southern Illinois University-Edwardsville in civil engineering." • **James Witt**, MinE, was recently promoted to general supervisor at 3M in Little Rock, Ark. • **Richard Words**, MgSys, received a master's degree in business administration from St. Ambrose University in Davenport, Iowa.

2001

Eric Distler, ME, works for General Electric Energy Services. His wife, Julie, is a registered nurse at St. Mary's Health Center in Jefferson City, Mo.

2002

Matthew F. Rohweder, AE, recently graduated from the U.S. Navy Nuclear Power School at Naval Nuclear Power Training Command in Goose Creek, S.C. During the six-month course, he received fundamental training in several technical fields related to the nuclear power program. With his newly acquired knowledge, Rohweder is prepared to operate a reactor on a nuclear-powered submarine or aircraft carrier, ensuring the availability of propulsion and power. • **Douglas E. Woerz**, EE, joined SynTel LLC, as an installation and support technician. SynTel is a provider of mail-automation software for the financial industry.

2003

Jon Wies, EMgt, joined Wies Drywall & Construction Corp. as an estimator/project manager. He is the third generation to work for the Wies' family business. • **Erin Wohlrab**, CE, joined Woolpert's water management group as a civil engineer.

1931

Charles E. Ross, CE, was a member of the MSM Band and served as a second lieutenant in the Army ROTC while attending MSM-UMR. He was a registered professional civil engineer in Missouri and West Virginia and was a member of the Society of American Civil Engineers. Ross retired as chief of the hydraulics and hydrology branch of the Hunnington District U.S. Army Corps of Engineers engineering division after 40 years of service. After retirement, he continued his life-long genealogy hobby. †May 22, 2003

1932

Arthur C. Kroll, MetE, †Jan. 30, 2003

1933



Charles E. Achuff, CerE, was a member of the Glee Club, Senior Council and Quo Vadis while attending MSM-UMR. †Oct. 1, 2002

1936

Edward A. Roy, ME, †Sept. 19, 2002

1937



Thomas L. Baxter, EE, was a member of Pi Kappa Alpha while attending MSM-UMR. Prior to his retirement, Baxter was an engineer at Alcoa Aluminum Co. He was a member of the St. Paul Evangelical Lutheran Church. †Feb. 11, 2003

Charles F. Benner, MetE, retired from Continental Can Co. He was a member of the American Society for Metals, American Ordnance Association, MSM-UMR Alumni Association, University of Chicago Alumni Association and St. Paul's Lutheran Church. †June 22, 2003

1943



Joseph J. Lowrey, CE, was a member of ASCE and the ROTC Band and served as president of Triangle fraternity while attending MSM-UMR. A retired teacher in the Hot Springs (Ark.) Public Schools, he owned Lowrey's Food Palace in Hot Springs. Lowrey was a past president of the Oaklawn and Hot Springs Rotary clubs and was a deacon and choir member at Central Baptist Church. †Feb. 27, 2003



Rene Krebs Rasmussen, CerE, was a member of the Shamrock Club, Independent Board of Control, Miner Board, Theta Tau, ACS, SAME, ROTC, Blue Key and Student Council and played intramural sports while attending MSM-UMR. Rasmussen served in the U.S. Army from February 1943 to June 1946 and was in the Army Reserve until his retirement as a lieutenant colonel in 1965. He retired from Guardian Glass Co. in 1984. †May 25, 2003

1944



Louis A. Hartcorn, MetE, was a member of Pi Kappa Alpha, Miner Board, St. Pat's Board, Theta Tau, Student Council and ASM while attending MSM-UMR. He was a retired manager and metallurgical engineer for Battelle and Fluor Daniel. †Feb. 4, 2003

1946

Robert P. Connett, MinE, served with the U.S. Army Corps of Engineers in Africa during the World War II invasions of southern France and southern Germany, retiring as a major in 1953. He worked for U.S. Gypsum Co. from 1949 to his retirement in 1983, then continued as a consultant on mining issues. Connett was active in the United Methodist Church, Kiwanis Club, Washington County Chamber of Commerce, Washington County Historical Society, Virginia Manufacturer's Association and the Virginia Safety Association. †June 3, 2003

1947



William J. Christman, PetE, was a member of Theta Kappa Phi, St. Pat's Board and Miner Board, played intramural sports and took first place in freestyle swimming while attending MSM-UMR. †Jan. 12, 2003



Kimble W. Cross, ME, was a member of Lambda Chi Alpha, St. Pat's Board and ASME while attending MSM-UMR. †Oct. 22, 2002



William E. Ellerman, MetE, was a member of Tech Club, Glee Club, Sigma Nu, ROTC, Gamma Delta, Blue Key, Miner Board, AIME and St. Pat's Board while attending MSM-UMR. †May 12, 2003



Robert L. White, ChE, was a member of ROTC, AICHE and Alpha Chi Sigma and was on the Honor List while attending MSM-UMR. †Aug. 10, 2002

1948



David F. Flota, EE, was a member of the ROTC Band, Shamrock Club and AIEE while attending MSM-UMR. †April 10, 2003



Harlan D. Smith, CerE, graduated from MSM-UMR after serving in the U.S. Army Air Corps during World War II. He retired from Wellsville Fire Brick Co. as vice president of research and development. Smith was a fellow of the American Ceramic Society and a member of Keramos, Moolah Shrine and Masonic Lodge for more than 50 years. †May 1, 2003



Donald A. Young, ME, was a member of Sigma Nu and was a student assistant while attending MSM-UMR. †Feb. 2, 2003

1949

Marius P. "Pete" Gronbeck, MinE, was awarded the Bronze Star for his work as a forward observer in the National Guard during World War II. He was a member of the Odd Fellows, American Legion Post 42 and VFW Post 5274, all of Platteville, Wis. Gronbeck also taught Red Cross first aid and served as treasurer for the Grant County (Wis.) Red Cross for several years. †April 19, 2003



Edward C. Wunnenberg, ME, was a member of the ROTC Band, Tech Club and ASME while attending MSM-UMR. †June 1, 2003

1950



Jack A. Sontag, CE, was a member of the Miner Board, Theta Kappa Phi, the Rollamo Board, ASCE and the football team while attending MSM-UMR. †Aug. 28, 2002

John R. Van Nort, CE, was a member of Kappa Sigma, Inner Guard and ASCE and was on the Honor List while attending MSM-UMR. †Dec. 14, 2002

1951



Donald G. Fahs, CE, was a member of ASCE, Alpha Phi Omega, MSPE and American Road Builders Association while attending MSM-UMR. He retired in 1986 as a

highway engineer from the Illinois Department of Transportation. Fahs was a U.S. Navy veteran of World War II and a member of American Legion Post 32. †May 16, 2003

Helio P. Guimaraes, CerE, was a member of ACS and was on the Honor List while attending MSM-UMR, graduating with First Honors. †April 22, 2003

Eugene E. Light, EE, †March 4, 2003



Frank D. Motta, EE, was a member of Lambda Chi Alpha and Student Council and was on the Honor List while attending MSM-UMR. His career included positions at

Goodyear Aircraft, the Joliet Arsenal, Automatic Electric (GTE), and Enesco Corp. He was active in the Salem (Ill.) United Methodist Church. †April 6, 2003

1952



Don Huey, EE, a former Air Force B-26 pilot, flew missions over Germany and France during World War II before graduating from MSM-UMR. Huey then worked for 27 years

as an electrical engineer at Wright-Patterson Air Force Base in Fairborn, Ohio. †June 20, 2003

1954



Donald O. Schneider, Chem, was a member of Gamma Delta while attending MSM-UMR. He was a Korean War veteran and a member of the Chapel of the Cross Lutheran Church. †Feb. 21, 2003

1955

Oscar H. Summers Jr, EE, was a member of AIEE while attending MSM-UMR. †May 1, 2002



Orval L. Sutton, ME, was a member of the Rifle Club, Dormitory Council, SAE and ASME while attending MSM-UMR. He retired from the Gardner Denver division of

Cooper Industries in 1989. Sutton was an active member of the Zion Lutheran Church in Palmyra, Mo. †May 2, 2003

1957

James L. Mitchell, ME, was a member of Shamrock Club, ASME, Independents and SAE and was on the Honor List while attending MSM-UMR. After graduation, he worked at Hutcheson and Son in Springfield, Mo., before moving to Meridian, Miss., to work for Midland Manufacturing Co. Mitchell then moved back to Springfield, Mo., as chief engineer with Dayco Corp. and Ridewell Corp. He was a longtime member of the Methodist Church. †May 8, 2003



Russell E. Williams, EE, was a member of Kappa Alpha and was on the Honor List while attending MSM-UMR. He was an electrical engineer for the former Western Electric Co. of

Burlington, N.C., for 32 years. Williams was a member of the Veterans of Foreign Wars, American Legion Post 9 and the Chosen Few in Carthage, Mo., and the 40 & 8 Post Commanders. †Nov. 25, 2002

1958

James D. Grenia, GGph, an Air Force veteran of the Korean conflict, spent more than 30 years in the mining engineering and management industries in positions that took him all across the country. Prior to his retirement in 1995, Grenia supervised 84 multi-discipline engineers in designing the Yucca Mountain Nuclear Waste Project, scheduled for completion in 2010. Grenia was a fellow and chartered engineer in the Institute of Mining and Metallurgy, London, England. He was a past member of the American Institute of Mining Engineers, serving as guest speaker at annual conventions, and was past president of Rotary International. †May 31, 2003

Robert J. Wagner, PetE, †June 22, 2002

1959

James V. Marler, MetE, †March 29, 2003

1962



Charles Folkert, Chem, was a member of Red Fourragere, BSU, Glee Club, '59er's Club, Independents and SAME and was on the Honor List while attending MSM-UMR. †Nov. 22, 2002



David F. Markel, ME, was on the Honor List, received the Phi Kappa Phi Award and was a member of Pi Tau Sigma, Gold Key, Tau Beta Pi, ASME and Lambda Chi Alpha while

attending MSM-UMR, graduating with First Honors. †July 8, 2002

John L. Walsh, ME, was a member of the Rifle Club, Engineers Club, Independents and ASME while attending MSM-UMR. †Jan. 28, 2002

1963



Michael E. Williams, GGph, was a member of the Glee Club, Prospectors, Spelunkers and Sigma Gamma Epsilon, was on the Honor List and received the 1961 Geologist of

the Year Award while attending MSM-UMR. Curator of vertebrate paleontology at the Cleveland Museum of Natural History and an internationally recognized expert on sharks that roamed the sea covering Northeast Ohio 360 million years ago, Williams' most recent contribution to the museum is a 225 million-year-old fossil of a Coelophysis dinosaur, discovered in New Mexico. He is listed as a "dinosaurologist" in the *Dinosaur Data Book: The Definitive Illustrated Encyclopedia of Dinosaurs and Other Prehistoric Reptiles*. †July 12, 2003

1965

Peter A. Smith Jr, MetE, was a member of MRHA, MSM Radio Station, ASM and ASME while attending MSM-UMR. He worked as an application engineer at the Elliott Co. in Jeannette, Pa., for 33 years. †July 11, 2001

1968



Fred J. Ewens II, Math, was a member of Kappa Mu Epsilon, MRHA and the Student Union Board publicity committee and was on the Honor List while attending MSM-UMR, graduating with First Honors. †Oct. 5, 2002



David R. Spence, EE, was a member of Kappa Mu Epsilon, Tau Beta Pi, Prospectors Club and Shamrock Club and was on the Honor List while attending MSM-UMR, graduating with First Honors. †Aug. 22, 2001

1970

John W. Carlson, Math, †June 1, 2003

(continued on page 80)

1971

Joseph Klahs Jr., ME, MS ME'73, †April 6, 2003

Sharon K. Stephenson, Hist, taught third grade at Truman Elementary School in Rolla, Mo., for 10 years, then spent the next 10 years as a guidance counselor at Rolla High School. Most recently, Stephenson was the guidance counselor at Truman Elementary. She was a life-long member of the First Baptist Church in Rolla. Memorial contributions were requested to the Sharon K. Stephenson Fund for Children. For more information contact Null and Son Funeral Home, 1010 Kingshighway, Rolla, MO, 65401 or call (573) 364-1200. †July 4, 2003

Brian C. VanLaningham, MS CSci, was a computer systems analyst at Electronic Data Systems at Manhattan, N.Y., then worked as an independent consultant in Detroit, San Francisco, Phoenix and Alexandria, Va. †July 2, 2003

1972

Jerry Sandvos, EE, was an engineer at Motorola for 28 years. He was a member of the Gloria Dei Lutheran Church, where he served as elder, Sunday-school teacher and choir member. Sandvos served as president and treasurer of the Davie Morning Chapter of Toastmasters International and was a founding member of the Nova Singers in 1976, serving as president and stage manager during his 20-plus years with the chorus. He also sang with the Florida Philharmonic Chorus and served as its stage manager. Sandvos was an annual participant in the M.S. Bike Ride, a 150-mile round trip to Key Largo, Fla. †Nov. 20, 2002

1977

Lawrence R. Steward, EE, a Vietnam veteran, retired from Lexmark International as an electrical engineer. †Jan. 28, 2003

1978



Jack W. Posey, EMgt, was an industrial engineer in the Purdue University Technical Assistance Program where he coordinated Purdue's high-tech job fair, the School of Industrial

Engineering's new graduate student orientation and the summer intern program. In 1992, he received the McGoon Award for Excellence in Teaching in the Schools of Engineering. He was a member of the Central Indiana Chapter of the Institute of Industrial Engineers, the Society of Manufacturing Engineers, American Society

for Engineering Management, was a Legal Aid Corp. board member and volunteered for several other community organizations. †March 22, 2003

1979



Edwin S. Smith, Math, was chief systems engineer and manager of outsourcing operations for Science Applications International Corp. †July 3, 2003

1982

Kamyar Rohani, EE, †July 9, 2003

1983

Kenneth A. Jones, GeoE, †Jan. 31, 2001

1985

L. Vincent Edmondson, MS CSci, PhD CSci'93, was an Eagle Scout in the Boy Scouts of America and was Medicine Man Meditating Owl in the Tribe of Mic-O-Say. Edmondson worked for AT&T Information Systems Laboratories in Middletown, N.J., and then became a professor of mathematics and computer science at Central Missouri State University. †June 10, 2003

1989

Andrew R. Thomson, Chem, †April 2, 2003

1994

Connie K. Winter, NDD, a longtime UMR employee, retired in 1996. She worked first in the cashier's office and then in centralized printing. Her daughter, Tracy Wilson, is a senior secretary in UMR's public relations office. †March 21, 2003

2001

Josh Byers, MS EMgt, was killed in Iraq when the Humvee he was riding in hit a land mine. Byers was in Engineer Captain's Career Course 3-00. †July 23, 2003

— friends

Alpha Barber, wife of George E. Barber, EE'44, †June 20, 2003

Sue Bliss, wife of Allen D. Bliss, PetE'38, †Jan. 13, 2003

Kathryn Bradshaw, wife of George Bradshaw, ME'42, †June 14, 2003

Verna Cole, wife of Kenneth D. Cole, CE'54, †July 2, 2003

Jeanne Dennis, wife of William E. Dennis, MinE'36, †Nov. 20, 2002

Mrs. Thorpe Dresser, †May 25, 2003

Elizabeth Freeman, wife of the late Charles A. Freeman, CerE'28, †Dec. 5, 2002

Jon D. Kessler, †May 5, 2003

Margaret Maize, †Dec. 4, 2001

Helen Muehring, wife of John E. Muehring, ME'50, †Dec. 23, 2002

Michelle Thomas, wife of Micah A. Thomas, ME'84, †May 26, 2003

Hughes M. Zenor, professor emeritus of physics at UMR, †Nov. 23, 2001

Memorial scholarship established

Our note about the death of **Robert E. Moore**, Curators' Professor emeritus of ceramic engineering, in the fall 2003 *Alumnus* omitted the fact that alumni and friends may contribute to a scholarship fund created in Dr. Moore's memory. Contributions to the Robert E. Moore Scholarship, which will benefit a freshman ceramic engineering student, may be mailed to Robert E. Moore Scholarship in Ceramic Engineering, P.O. Box 249, Rolla, MO 65402.

A.C. Spreng



Photo by Jonathan Trotter/JMT Photography

For the love of nature

It was in the fields of his childhood home in Ohio where **Alfred C. Spreng** discovered a great love for the outdoors. He would spend his days digging up Indian arrowheads on his parents' land. Later he expanded this hobby to include collecting plant fossils from the coal beds in central Ohio. By then, Spreng knew he wanted to pursue a career that had something to do with the outdoors. "My high school teacher suggested archaeology, but when I found there were few careers available in that field I switched to another 'ology' — geology."

More than half a century has passed since Spreng, professor emeritus of geology and geophysics, joined the MSM-UMR faculty. Because of Spreng's depth of experience and knowledge of UMR's geology program — Spreng began his UMR career in 1950 — department chair **Jay Gregg** asked Spreng to write *A History of Geology and Geophysics: 1871-2003*, a historical account in honor of the department's 100th birthday (see story on page 56). Although the study of geology was integral to MSM-UMR in the early years, geology did not become a department until 1903.

"An interesting thing for me was discovering the difficulties faced by the early geology teachers and other staff members in the growing years of the school before the time of World War II," says Spreng. "The small staffs taught many courses and encountered almost continuous budget and equipment problems. Their perseverance impressed me."

Spreng's longtime love of nature also made him the perfect candidate to be the MSM-UMR weather man. Since 1958 he has reported the Rolla area weather daily to the National Weather Service, the local paper and other facilities. "Unfortunately for me, the station is not automated, so I have to begin assembling the weather data early in the morning — at about 6:30 a.m. — so that the information can be sent to the national network by 7:30 a.m.," says Spreng. "The weather never stops, so this is an everyday project." **Joseph H. Senne**, CE'51, professor emeritus of civil engineering, shares Spreng's interest in meteorology and assists him in his daily weather reporting.

Spreng's interest in meteorology was "inspired" by his three years of service as a weatherman in the Army Air Force during World War II. He also minored in meteorology while pursuing his Ph.D. in geology at the University of Wisconsin. Spreng also co-wrote *Guidebook to the Geology of the Waynesville, Rolla and St. James Areas, Missouri*, with **Paul Proctor**, the late MSM-UMR professor emeritus of geology and geophysics. Spreng and Proctor also completed a geologic map of the Rolla area for the Missouri Geological Survey.

Because of Spreng's many contributions to geology at UMR, he'll soon have his name on the map room in UMR's Curtis Laws Wilson Library.

Along with mapping and weather-watching, Spreng enjoys traveling. He and his wife, Wealthy, recently traveled to Chile to explore the volcanoes and other natural geographic phenomena — proof that his passion for nature continues to shine through even after all these years.



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