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MSM-UMR ALUMNUS

A PUBLICATION OF THE MSM-UMR ALUMNI ASSOCIATION WINTER 2004

VOL. 78, NO. 4



Boeing and UMR: reinventing the aerospace business



MSM-UMR Alumni Association

Representing over 46,000 alumni worldwide

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Changing the future of UMR



ABOVE: Conceptual drawing of the 7E7 Dreamliner scheduled to begin flying passengers in 2008. Alumni pictured (left to right): John Eash, AE'79, MS EMgt'90; Sylvia Strackeljahn, EMgt'03; and Nelson Minter, CSci 84, MS SysE'02.

ON THE COVER: The F-22 Raptor in flight. Alumni pictured (left to right): Michael Emanuel, EE'87; Peggy Corkern, MS SysE'03; Greg King, MS SysE'03; Rob Stuart, MS SysE'03; and Julie Roth, a sophomore in engineering management.

All photos of Boeing products pictured in this magazine are courtesy of The Boeing Co. A special thank you to Lynn Steinberg, with external communications (St. Louis region), for coordinating the bulk of the photos, and to all the Boeing communications offices that assisted along the way.

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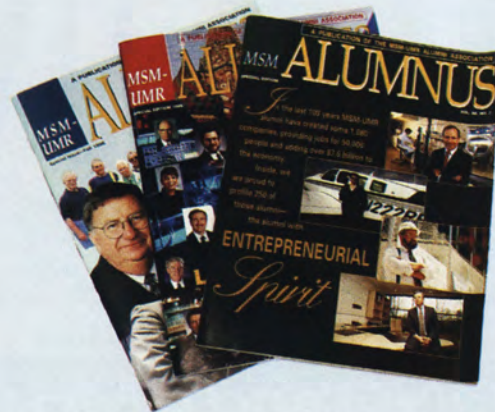
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ENTREPRENEURS AND LEADERS

We want your stories for a new series in the *Alumnus* and on the web

A decade ago, the *MSM-UMR Alumnus* began a series of special issues focusing on entrepreneurship and leadership.

Through the process of preparing those special issues, we identified more than 1,000 alumni entrepreneurs and hundreds of alumni CEOs, presidents, vice presidents and other leaders from the corporate and non-profit sectors. Now as we continue our mission of preparing today's students to become tomorrow's leaders and entrepreneurs, we're seeking to measure how well we're doing and to feature some of our more recent leaders in the magazine and on a new website. To stand up and be counted



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

ENTREPRENEURS AND LEADERS

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

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REBECCA FRISBEE
Art & Production Editor

From the Editor's Desk

Flight into the future

The planes flew overhead in a tight V formation, the P-51 Mustang flanked by the F-15 Eagle and F-16 Falcon. The jets dwarfed the prop plane, giving the appearance they were on the verge of devouring it. It was one of those breath-holding moments that thrills, leaving an indelible impression. Last year there were many tributes like this in celebration of the 100th Anniversary of Flight. My family and I were fortunate to witness this legends of flight demonstration at Scott Air Force Base in Illinois.

As we were working on this issue, scenes from that September 2003 day kept coming back to mind. Planes are exciting. They grab your attention. They're sleek, fast, loud and powerful. They are capable of maneuvers that seem to defy the law of gravity and can move at speeds that push beyond the sound barrier. So, it seems only fitting that UMR would have more than 1,500 alumni working at The Boeing Co. This issue speaks of those men and women who continue to advance technologies of flight – from commercial, defense, space and futuristic aircraft to electronics, missiles and rotorcraft. Their work and the work that UMR and Boeing are doing as research and educational partners continues to change the future of flight and higher education.

This issue also contains our Profile of Donors. Your contributions over the past year totaled more than \$11 million. With limited state funding, your investment in and support of the educational value of UMR is greatly needed and appreciated. This year we've enclosed a giving envelope and I encourage you to take a moment to read about the many ways your continued support helps strengthen UMR.

Wishing you and yours a Happy New Year!

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BOEING AND UMR:

reinventing the aerospace business



photos by Boeing Imaging Services



When U.S. Sen. Christopher (Kit) Bond announced last spring that UMR had received a \$9.8 million federal contract to create a new research center devoted to advancing the aerospace industry, it was a big occasion for UMR. The federal appropriation – which has since increased to more than \$13 million – was the largest ever for the campus.

It's also the latest in a long history of partnerships between UMR and Boeing – partnerships that are transforming UMR education as well as the aerospace industry.

With more than 1,500 UMR graduates on the payroll, Boeing is the biggest employer of UMR alumni. The aerospace giant is also a big educational partner, responsible for helping UMR expand its distance education offerings in the late 1990s and supportive of UMR research and study programs. Boeing donations have helped establish scholarships, new

programs (such as the Product Innovation and Creativity Center in the planned expansion to the mechanical and aerospace engineering complex), and new research initiatives. Numerous students have spent a semester or two working for Boeing through UMR's Cooperative Education Program, and since 1997, four UMR professors have also learned from Boeing engineers through the Boeing A.D. Welliver Faculty Fellow program. Moreover, a number of UMR graduates have moved up the Boeing chain of command to become leaders of the organization. One of them was also the chief architect for Boeing's two Malcolm Baldrige National Quality Awards.

UMR's partnership with Boeing is the focus of this issue, and the stories and profiles that follow offer but a glimpse of the many ways in which UMR and Boeing, working together, are changing the face of aerospace and higher education.



Center for Aerospace Manufacturing Technologies **LAUNCHING NEW FRONTIERS**

*Partnership among UMR, Boeing and the Air Force
will transform the aerospace industry*

by Andrew Careaga (acareaga@umr.edu)

When **Ming Leu** joined UMR in 1999 as the Keith and Pat Bailey Distinguished Professor of Integrated Product Development and Manufacturing, he came in with a lot of big ideas. But the biggest by far was a plan Leu and two other UMR officials hatched three years ago.

Spearheaded by School of Engineering Dean **Bob Mitchell**, in collaboration with Leu and Vice Provost for Research **Wayne Huebner**, CerE'82, PhD CerE'87, the idea was to capitalize on UMR's strong ties with two long-time research partners: Boeing and the Air Force. The UMR trio wanted to coordinate a broad array of current aerospace-related research projects on campus and propose several new collaborative projects, all under the banner of a single research center.

Last spring, those efforts bore fruit when U.S. Sen. Kit Bond, a Republican from Missouri and a senior member of the Senate Appropriations Committee, announced a \$9.8 million federal appropriation to create the Center for Aerospace Manufacturing Technologies (CAMT) at UMR. Leu was named director of the center, through which campus researchers will work with personnel from Boeing Phantom Works – the company's research and development unit – and the U.S. Air Force's Research Laboratory at Wright-Patterson Air Force Base in Ohio to take the aerospace industry to the next level.

That federal appropriation – later bolstered by another \$3.5 million in funds from this fiscal year – was the largest ever for UMR. But it isn't the only thing big about the new center. Involving 30 faculty members from more than a dozen disciplines,

(Continued on page 6)

Research conducted in UMR's friction-stir welding lab (left) and rapid prototyping and manufacturing lab (center) will contribute to the new Center for Aerospace Manufacturing Technologies. At right, CAMT Director Ming Leu.



photo by Dan Seifert/Stone House Photography



photo by Dan Seifert/Stone House Photography

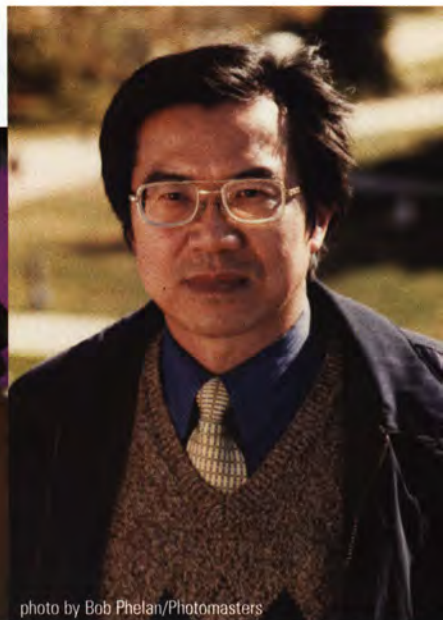


photo by Bob Phelan/Photomasters



Current Boeing projects such as the 7E7 Dreamliner (above) may benefit from the new Center for Aerospace Manufacturing Technologies at UMR.

along with more than 50 graduate and undergraduate students, the CAMT is the largest research initiative ever undertaken at UMR. Though housed primarily in Leu's home department of mechanical and aerospace engineering, the center's work will be conducted in 17 different labs and facilities across campus. And with 10 emphasis areas, the center's scope of work is the most comprehensive of any UMR research initiative.

'Needs-driven' research

In short, the CAMT promises to redefine many aspects of the aerospace industry – from safety on the shop floor to supply-chain management and the design of ultra-high-heat-resistant nose cones for military uses. CAMT research into the use of composite materials may also benefit Boeing's newest commercial aircraft effort, the 7E7 Dreamliner, which is expected to take flight in 2008.

Think of the CAMT as a launch pad to propel the aerospace industry into the future, as well as an incubator for new ideas.

"This is very needs-driven," says Leu, adding that the 10 emphasis areas (see sidebar, page 7) "are of great interest to Boeing and the Air Force and were developed with their input."

While the center is only a few months old – the official announcement occurred last May – several of the projects now under its aegis have been under way for years. For example, efforts to develop new materials for coating aircraft (see page 14) began more than a decade ago.

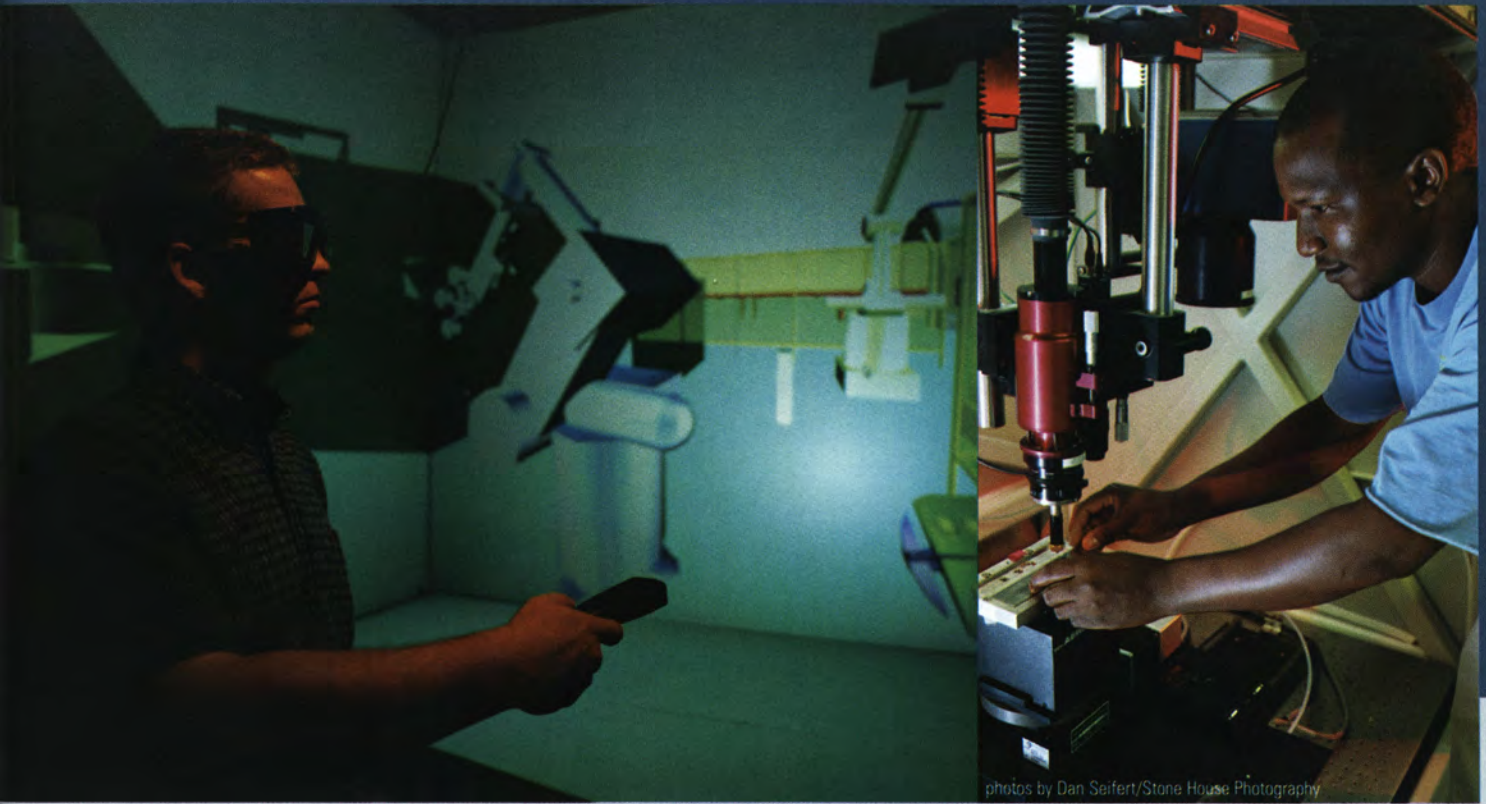
Leu envisions an array of similar new products and technologies to spin off from the center's research in coming years. But industry needs will drive the R&D, Leu says. "We need to see what the needs of the Air Force are and the needs of the aerospace industry – including Boeing, Boeing's suppliers and other aerospace manufacturing companies."

A perfect fit

Boeing's liaison for the project, **Ricky L. Martin**, MetE'82, MS EMgt'84, sees this partnership between his company and UMR as a perfect fit. The campus' research expertise and close proximity to St. Louis, where much of Boeing's military aircraft and weapons production facilities are housed, benefit both parties, he says.

"UMR's reputation as a leading engineering institution with world-class capability in materials, manufacturing and product technology development ... makes this an ideal partnership," says Martin, who is department manager of materials, processes and standards engineering at Boeing St. Louis.

Leu concurs. "We have a lot of in-house expertise in broad areas of manufacturing that are critical to the aerospace industry," he says. And the UMR-Boeing-Air Force research partnership will be critical to the future of flight.



photos by Dan Seifert/Stone House Photography

Left: A student explores the virtual reality lab. Right: A graduate student works in the laser materials processing lab.

Taking aerospace to new heights

The UMR Center for Aerospace Manufacturing Technologies, a partnership among UMR, Boeing and the Air Force, focuses on 10 research areas to address the needs of the aerospace industry:

Advanced simulation. Projects include developing auto-identification methods to better manage inventory and research to improve fastener installation on aircraft.

High-speed machining. Projects include developing techniques to machine thin-walled titanium to strengthen aircraft material and lower cutting forces.

Abrasive slurry cutting. This research area involves high-precision cutting with “micro-abrasive” water jets – a method that will improve the fabrication of aircraft parts.

Rapid prototyping and manufacturing. UMR researchers will use two new RP techniques – rapid-freeze prototyping (which uses water) and laser deposition – to develop prototypes for solid-metal nose cones and other aircraft and missile parts.

Laser materials processing. Research in this area involves the use of a speedy “femtosecond” laser – femtosecond meaning a quadrillionth of a second – to develop new micro-drilling methods.

Friction-stir processing. Researchers in this area are developing ways to strengthen joints in aircraft manufacturing through a new metal-mixing process.

Non-chrome coating. Projects include development of corrosion-resistant and environmentally friendly aircraft coatings (see story, page 8).

Non-destructive evaluation. Techniques include microwave testing of materials to improve repairs of aging aircraft.

Composites manufacturing. Among the many projects in this area is an effort to develop materials that can withstand extreme heat. These materials would be used on missiles and other high-tech weaponry.

Electronic materials processing. Projects include electromagnetic compatibility studies to reduce the risk of electromagnetic interference aboard airplanes and studies to further develop lead-free soldering methods.

For more information about the center’s research programs, visit the CAMT website at campus.umn.edu/camt.

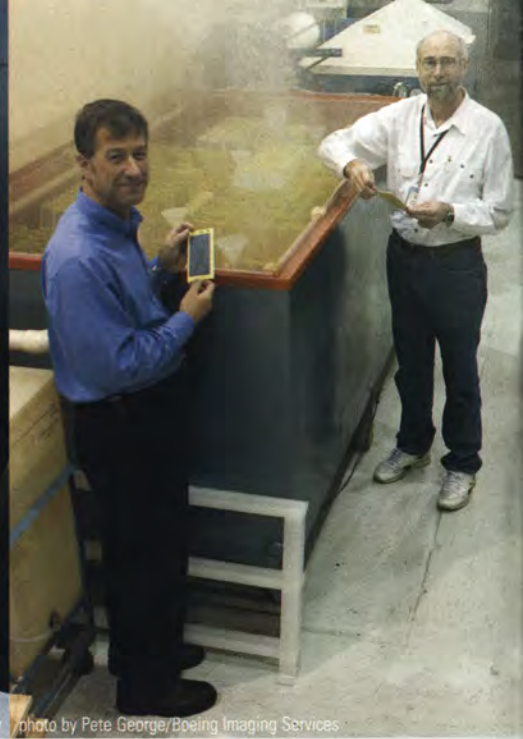


photo by Dan Seifert/Stone House Photography photo by Pete George/Boeing Imaging Services

Helping the aircraft industry breathe easier

by Claire Faucett

Results from UMR research that began more than a decade ago may help solve one of Boeing's and the Air Force's biggest environmental and safety concerns: the use of chrome-based coatings on aircraft. Chrome-based coatings prevent corrosion of aircraft, but also pose a health hazard for the workers who apply the paint, says **James Stoffer**, Curators' Professor emeritus of chemistry at UMR and one of the chief investigators on the project.

In an effort to create a safer work environment but still provide corrosion protection for the aircraft, UMR, Boeing, the Air Force, and Deft Industrial Finishes have developed a non-chrome primer to use in place of the current chrome-based primer.

The type of chrome used in the current primer is "hexavalent" and is considered a hazardous form by the U.S. Environmental Protection Agency (EPA). Hexavalent chrome can cause severe respiratory problems, and in some cases can lead to lung cancer.

Soon, the industry will be forced to take action on the use of hexavalent chrome. The U.S. Occupational Safety and Health Administration (OSHA) plans to initiate new rules in January 2006 requiring the industry to significantly reduce the amount of chrome exposure to employees.

"Our goal is to change the primer from chrome to non-chrome," says Larry Triplett, Boeing manager for environmental R&D. "The applications are for new production and for repaints for both military and the commercial side."

Tests on the non-chrome primer performed by UMR and Boeing show that the non-chrome primer holds up very well, says Stoffer. For the test, a sample of coated aluminum alloy – the most common kind found on aircraft – is placed in a "salt-fog

chamber" that accelerates corrosion rates and helps determine the effectiveness of the corrosion prevention coating.

The current chrome-based primer typically lasts 2,000-3,000 hours without significant corrosion. "Some of the non-chrome primer samples have gone considerably longer, as much as 4,000 and 5,000 hours in salt fog," says Stoffer.

UMR's non-chrome corrosion-inhibiting compound will replace the chrome inhibitor in the commercial aerospace primer without altering any other steps in the manufacturing process. "So we can spray it like we do now," says **Steve Gaydos**, MS MetE'84, associate technical fellow at Boeing and main liaison for this UMR project. "There will be no change in our spray equipment, or in the way we spray the paint on the aircraft."

"Working with Boeing keeps us aware of current manufacturing procedures, which helps us make sure anything we do is compatible with their operating procedures, or at least causes as little disruption as possible to existing manufacturing techniques," says **Tom O'Keefe**, MetE'58, PhD MetE'65, Curators' Professor emeritus of metallurgical engineering and one of the lead researchers. "The support and guidance we have received from Air Force personnel, in particular Steve Szaruga and Lt. Stephen Chupp of the Materials Directorate of the Air Force Research Laboratory in Dayton, Ohio, have also been important in keeping the work focused on meeting the Air Force's needs."

UMR, Boeing and the Air Force are also working with Deft Industrial Finishes to manufacture the non-chrome primer. **Eric Morris**, PhD Chem'00, was one of the primary inventors of the non-chrome inhibitor system while a graduate student



photos by Dan Seifert/Stone House Photography

Researchers prepare aluminum alloy samples (far left). Boeing employees Larry Triplett and Steve Gaydos (blue shirt) place samples in a salt-fog chamber (center). James Stoffer (second from left, above) reviews samples with researchers.

at UMR and is now working for Deft," says **Matthew O'Keefe**, MetE'85, associate professor of metallurgical engineering and co-investigator for the project.

The use of this primer could be a huge leap for Boeing and the Air Force in minimizing the impact to the environment because "the primer in the chrome system contains more than 90 percent of the total chrome in the coating system," says Stoffer. "And aircraft are typically stripped and repainted every five to 10 years during their 40- to 80-year life span."

Ultimately, UMR hopes to create an entire coating system that will remove chrome from the coating process entirely, not just from the primer, says Matt O'Keefe.

Other members of the UMR research team are **Joe Edington**, MetE'98, PhD MetE'04, postdoctoral fellow in the Materials Research Center (MRC); **Bill Fahrenholtz**, assistant professor of ceramic engineering; **Scott Hayes**, a Ph.D. student in chemistry; **Ajay Padwal**, postdoctoral research fellow in MRC/chemistry; **Tom Schuman**, assistant professor of chemistry; **Ahmed Shahin**, a Ph.D. student in chemistry; **Paul Yu**, research assistant professor at the MRC; and **Alex Williams**, Chem'93, a Ph.D. student in chemistry. **Melody (Porter) Bennett**, ChE'99, chemical engineer and scientist at Boeing, has also contributed to the project.

Alumni who worked on the research while students include **Vaidehi Dongre**, MS CerE'04; **Xuan Lin**, MS CerE'95, PhD MetE'98; **Shantanu Patwardhan**, MS ChE'01; **Berny Rivera**, MS MetE'02; and **Haifeng Zhou**, MS CerE'01, MS CSci'01.

Making cleaner skies

by Mary Helen Stoltz (mhstoltz@umr.edu)

Although poorly understood, aircraft particulate emissions are a critical component of aircraft exhaust that affects all aircraft operations.

In an effort to understand those emissions and make them more environmentally friendly, UMR joined Boeing as a partner in a consortium of researchers from other universities, the military and federal government agencies to form the UMR Center of Excellence for Aerospace Propulsion Particulate Emissions Reduction.

Established in 2003 with a \$3.15 million federal appropriation funded through NASA, the center coordinates research conducted at UMR, the Massachusetts Institute of Technology, the University of Illinois and Georgia Institute of Technology, as well as with corporate partners Boeing and Aerodyne Research Inc. The center's work includes research for NASA and the Air Force.

"There is an immediate and crucial need to characterize and measure particulate emissions from aviation, and to support the development of the predictive tools for current and future propulsion emission reduction strategies," says **Philip Whitefield**, director of the UMR COE.

Whitefield, a chemist, and physicist **Donald Hagen**, director of the UMR Cloud and Aerosol Sciences Laboratory, lead this research. The two are examining what goes on inside aircraft engines to produce emissions and what effect those emissions have on the atmosphere and, ultimately, air quality and human health.

The researchers hope to develop standardized techniques for measuring the formation and growth of particulates outside of the engine in the exhaust plume, and for characterizing and measuring emissions in commercial aircraft, both in service and in development.

In addition, the researchers are creating validated models of particulate production in the hot sections of turbine engines and in their exhausts to develop predictive tools for future emissions reduction strategies.



photo by Ian Nance/UMR Publications



photo by Peter George/Boeing Imaging Services



photo by Ian Nance/UMR Publications

Learning on the job

by Mary Helen Stoltz (mhstoltz@umr.edu)

Imagine you're a college student responsible for allocating funds in a multi-billion-dollar program to redesign the modern military, shifting the focus away from personnel to the use of the latest technology to deliver essential information in the best possible way.

Now imagine being responsible for power supplies in satellites used by the government, the military, weather forecasters, and the communications and entertainment industries.

UMR's Cooperative Education Program gives students the opportunity to work in jobs like these at dozens of different companies, including one of the largest employers of co-op students, Boeing.

Chip Moll, a senior in engineering management, learned the ins and outs of corporate finance in two co-op positions with Boeing in St. Louis. He spent the spring as a supplier management and finance analyst on the tactical aircraft (TACAIR) program, then moved to Future Combat Systems to work on a multi-billion-dollar budget for a 14-year program to redesign the U.S. Army.

In the process he learned more than just corporate finance; he realized he missed the hands-on aspect of engineering. "It motivated me to shift to a more technical emphasis within

engineering management," Moll says. "It taught me I don't want to focus on just the money aspect of the job." Next summer, Moll plans to shoot for his ideal co-op job, one in manufacturing engineering. By the time he graduates next December, he'll know exactly what he wants from a career, thanks to his co-op experiences.

Michelle Kuykendal, a senior in computer engineering and electrical engineering, spent seven months honing her skills as a power systems engineer with Boeing Satellite Systems in Los Angeles. The company designs, builds, tests and launches satellites for both military and commercial uses.

"It was really exciting," Kuykendal says. "There was a lot to do under a lot of pressure and I learned so much."

She impressed her superiors enough to be invited back – this time for a full-time position. But as much as she loved her work at Boeing, her yearning for research in biology might be stronger. After graduation she hopes to combine her minor in biological sciences with her degrees in electrical and computer engineering in a biomedical engineering graduate program.

Kuykendal and Moll agree that co-oping was the best thing they could have done to prepare them for life after graduation and urge other students to give it a try.



photo by Peter George/Boeing Imaging Services

From left to right: Boeing co-op students Michelle Kuykendal, Julie Roth, Chip Moll and Drew Elledge.

"Just do it," Kuykendal says. "It gives you a great idea of what is going on in your field."

"Get an early start," Moll adds. "Look around at company information. Find out what they do."

Following Moll's path, engineering management sophomore **Julie Roth** spent the fall working in supplier management finance for Boeing in St. Louis. She already sees the value of her experience.

"I would definitely recommend that students take advantage of the co-op program," Roth says. "Even though I will probably have a later graduation date, I think the pluses definitely outweigh the minuses."

When mechanical engineering junior **Drew Elledge** returns to class work in January after a fall semester co-oping with Boeing, he expects his time in Boeing's subsystems definition department to have a big impact.

"Being able to see how everything gets applied in the real world will change what I see in class," he says. "So far, it has been just equations and problems to me. Learning the way these things are actually applied will let me see the whole picture."



photo by Mindy Limback/UMR Public Relations

Robert C. Feldmann, second from left, presents a \$225,000 check to fund the Boeing Scholars Program. With Feldmann, from left: **Robert Mitchell**, dean of the UMR School of Engineering; **UMR Chancellor Gary Thomas**; **Wayne Huebner**, UMR vice provost for research; and **Matt Daniels**, Boeing University Relations manager, East Central Region.

Boeing creates new scholarship program

Robert C. Feldmann, CSci'80, program manager of Boeing's E/A-18G Program, visited campus in June to present a \$225,000 donation to fund a new Boeing Scholars Program for UMR students. A total of \$185,000 will go toward scholarships, with \$40,000 earmarked for other student programs.

"The goals of the Boeing Scholars Program at UMR are to attract and retain more students in technical degrees," says Feldmann. "This is especially true for females and minorities, who are underrepresented in our technical workforce and represent an enormous untapped resource. For this reason, 80 percent of the scholarship funds are dedicated to females and minorities."

Boeing plans to donate \$185,000 each year to fund the scholarships.

The aerospace company has been an industry leader in helping universities develop their engineering and technical programs, says **Robert Mitchell**, dean of the School of Engineering at UMR. "The Boeing Scholars Programs represents a new level of commitment to help provide access to all and especially encourage women and minorities to live up to their potential," he says.

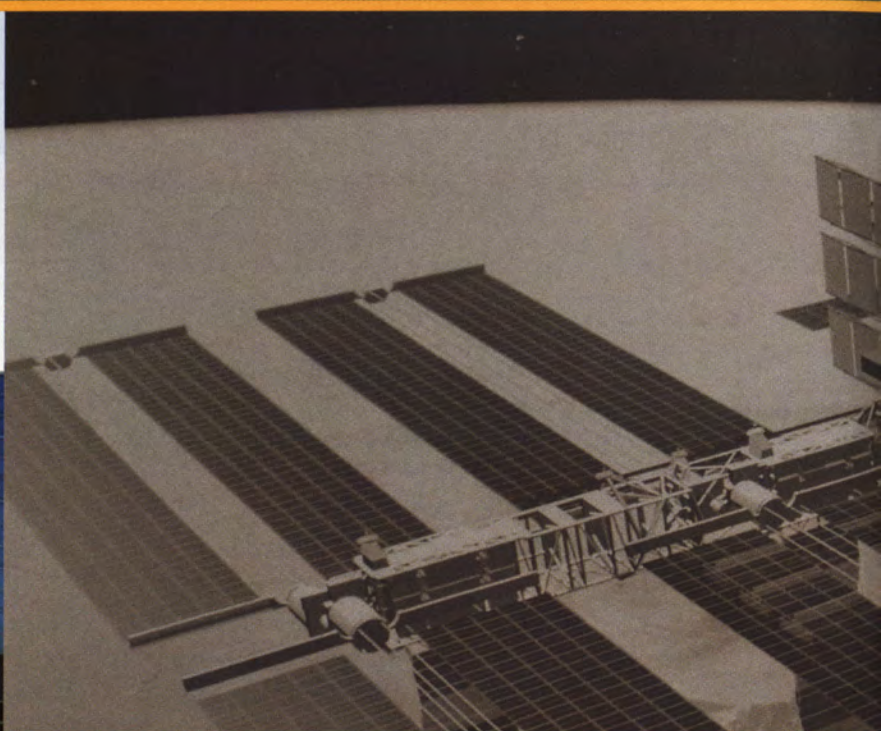


photo by Lisa Stuart/Lisa Stuart Photography



photo by Bob Phelan/Photomasters

Top photo (left to right): Peggy Corkern, MS SysE'03, Greg King, MS SysE'03, and Rob Stuart, MS SysE'03. Bottom photo: Cihan Dagli, head of systems engineering at UMR.

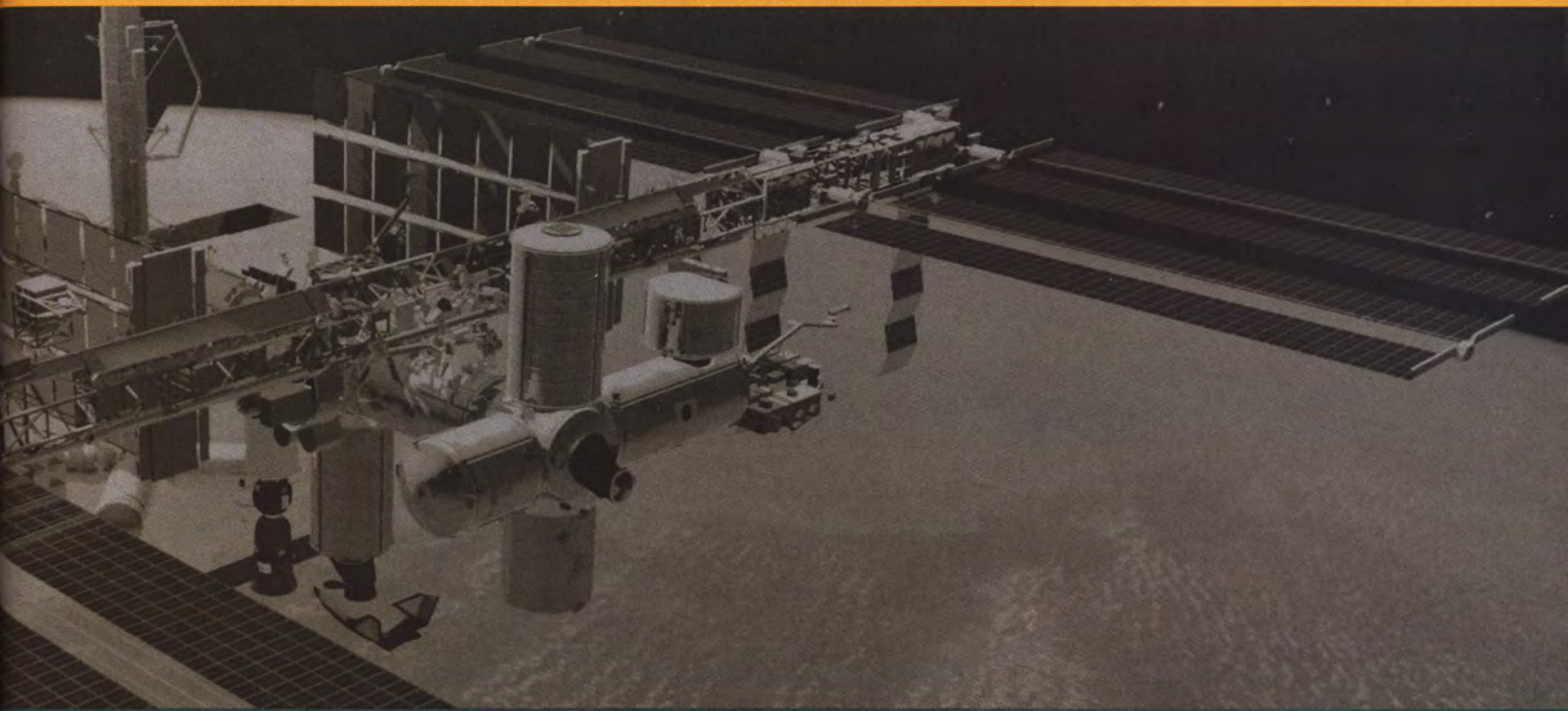


Systems engineering:

They say that a TV camera adds 10 pounds to a person. But when the video shows up on a computer monitor instead of a television screen, a different effect may occur. At least that was the experience for **Rob Stuart**, MS SysE'03, when he finally met one of his UMR professors in person after seeing him on the small screen.

Stuart, an associate technical fellow for Boeing in Huntsville, Ala., took an online course taught by **Frank Liou**, a UMR professor of mechanical and aerospace engineering, as part of the coursework for his systems engineering degree. When he met Liou on graduation day in May 2003, the first time he set foot on campus, Stuart thought the 5'9" professor looked "a little taller in person."

Whether the camera adds to or subtracts from a person's stature, the online systems engineering degree program – a degree created by UMR to specifically meet Boeing's needs – has added to the careers of Stuart and 74 other Boeing employees who have earned master's degrees through the program since its creation in 2000. Now with 209 students enrolled this semester, the systems engineering program has expanded beyond Boeing to attract students on campus and elsewhere, says **Cihan Dagli**, head of systems engineering at UMR.



a main attraction for Boeing

by Andrew Careaga (acareaga@umr.edu)

For Stuart, the online program's flexibility, coupled with its compatibility with Boeing's needs, made for a perfect fit. Now working on the Joint Tactical Radio Program for the Army, he needed something beyond his bachelor's degree in electrical engineering to help him handle the complexities of working on radio systems for military and aerospace applications. The work is true systems engineering, as it affects – and can be affected by – various other parts of a complex system, such as computer networks, electromagnetic compatibility, and the infrastructure and mechanics of an aircraft.

His co-worker **Peggy Corkern**, MS SysE'03, also based in Huntsville, was a rocket propulsion engineer for Boeing when "Rob talked me into" enrolling in UMR's systems engineering program. She and Stuart worked together on the environmental control system of the International Space Station a few years ago, but with Boeing looking at new directions for the future, "I needed to get back to something that the company could relate to," she says.

A mechanical engineer by training, Corkern is now an associate technical fellow for Boeing Phantom Works, where she conducts computer modeling and simulation for missile defense systems. The systems engineering degree

"gives me a totally different perspective," she says. "Now I apply a different way of thinking to everything I do. I also have a better appreciation for other disciplines. It helps to be able to understand what other engineers do."

For **Greg King**, MS SysE'03, now a senior systems engineer for Boeing's Joint Tactical Radio System/Joint Blue Force Tracking Simulation Awareness, getting the master's degree was more of a personal goal than a career move. Yet, he says, "I've been able to apply a lot of what I learned in these courses to my job."

A systems engineering degree from UMR not only adds stature to Boeing employees, but also to the company itself. The concept is embedded in Boeing's strategic planning document, Visions 2016. "Large-scale systems integration" is the second of three core competencies listed in the document. According to Dagli, that means that "every engineer has to be a systems engineer. That's the Boeing philosophy."



A 'stinging' career for Bob Feldmann

by Mindy Limback (limbackm@umr.edu)

Bob Feldmann, MS CSci'80, can't stop buzzing about Boeing. Originally hired by McDonnell Douglas as a software engineer for the original F/A-18 Hornet's mission computer more than 25 years ago, Feldmann stayed on as the company changed hands to Boeing and remained in St. Louis for most of his career. He moved his way through the ranks to become program manager for the E/A-18G, a new electronic attack version of the FA-18 Super Hornet.

"The Boeing 777 is my favorite airplane because it's a tremendous blend of technology, customer influence and the resolve of the company to build it," Feldmann says. "I always sit by a window when I fly because, when I look at the ground, it still strikes me as an amazing feat of ingenuity."

Feldmann earned his master's degree from UMR through the Engineering Education Center in St. Louis during "a time when the whole computer and software world was just exploding." He learned a lot from his advisor, **Dan St. Clair**, now the chair of the computer science department at UMR. "What I liked about Dan was his ability to talk about the topics in a very clear and straightforward way, which is exactly what we want our engineers to do," he adds.

Feldmann also learned the importance of staying current with technological advances in the industry. The terrorism events over the past few years have highlighted to the U.S. government the need to be "ever-watchful" in a number of areas, he says.

"I think the government has a renewed belief that investments in enabling technologies inside the military are valuable," Feldmann says. "For instance, the military aerospace industry is on the cusp of the introduction of autonomous,

unpiloted vehicles. These unpiloted vehicles will someday be able to do virtually everything that piloted vehicles do today. There will always be a need to have humans in the loop, but they won't always be sitting in the cockpit of the aircraft."

As a manager, Feldmann says he finds the easiest way to inspire people is to simply explain to them why their contribution is critical. "Inspiration is easy because people want to do things that make a difference," he explains. "They want to have an impact. Conversely, the hardest part about being a leader is talking to people when their behaviors or performance don't measure up."

As the program manager of the newest version of the Hornet family, Feldmann leads and coordinates the activities of a number of Boeing teams to solve challenging problems, such as packaging complex electronics into an aircraft and integrating various software groups at other Boeing plants across the country into one working flight program. He urges recent graduates to "keep their perspective and always try to have solutions or a plan when they're working with people." One of the best ways current students can prepare themselves for those responsibilities is to practice communicating and solving problems in a group atmosphere.

"Students should get involved in as many teams as they can because that's the best window into the future of the workplace," he says. "I am so impressed with UMR because of the encouragement they give their students to get involved in team-based activities and the opportunity they provide the students to do just that."



photo by Pete George/Boeing Imaging Services

"I am so impressed with UMR because of the encouragement they give their students to get involved in team-based activities and the opportunity they provide the students to do just that." —Bob Feldmann

Frank Statkus flies high on a 7E7 'dream'

by Mindy Limback (limbackm@umr.edu)

A 1931 Buick and the new Boeing 7E7 Dreamliner may not seem to hold much in common, but they both have a hanger in the heart of **Frank Statkus**, AE'71, MS AE'72. As vice president of advanced technology and processes for the Boeing 7E7 program in Everett, Wash., Statkus spends his time balancing an appreciation for the past with an anticipation of the future.

"We're reinventing the way commercial airplanes are designed and built," says Statkus, a collector of 1931 Buicks and Hudsons. "As a result, we will be able to redefine what a competitive playing field in the commercial marketplace is."

After creating the 777 (the world's first digitally designed aircraft) a decade ago, Boeing engineers are taking another leap forward by using new software to design the 7E7 plane as well as its production, operation and maintenance. The end result: engineers will snap the aircraft's composite wings and fuselage together like Legos in 72 hours. "If you want to know where the state-of-the-art in composite-technology manufacturing is, it's here," Statkus says. "There's no one else in the world doing this kind of work."

Boeing will begin manufacturing the 7E7 next year and plans to have the new aircraft carrying passengers by 2008. "The 7E7 will be the best commercial airplane flying," Statkus says. "To our airline customers, it will be the first product that will allow them to begin making real profits in the 21st century."

Statkus' admiration for Boeing began while he was working on his master's degree at UMR. "I was pretty impressed with the programs I saw at Boeing," he explains. "At the time, the supersonic transport program was on a rocky road with funding. As a member of the American Institute of Aeronautics and Astronautics, I was writing letters to try to support that program. It just seemed natural for me to come and work for Boeing, and I haven't regretted that decision at all."

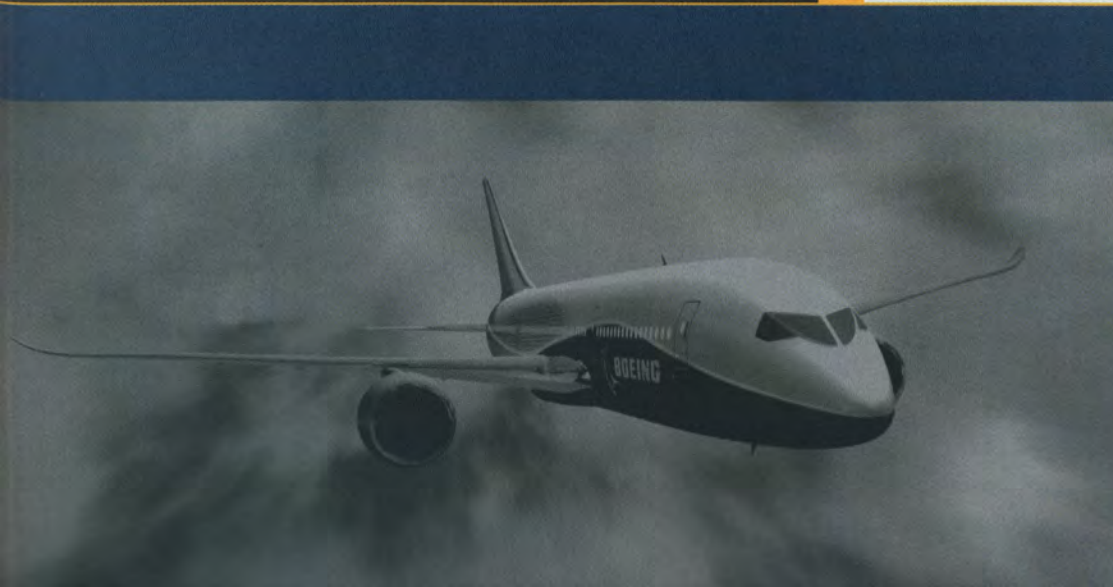
Statkus has spent most of his 32 years at Boeing working on the defense side of the aviation industry, but recently moved into

the company's commercial business. "Switching to running technology in the commercial side was a fairly non-stressful switch," he says. "Most of my work on the military side was all about applying new technology to programs or managing the programs where that was happening, so technology isn't foreign to me."

In the office by 6 a.m., Statkus says his days are often filled with back-to-back meetings, presentations, trips and decision-making activities. But that's all part of the job, he says, and the position also requires someone willing to work "on the edge of the state-of-the-art."

"In my particular business, almost everything we do hasn't been done before," Statkus says. "It isn't always going to come out right. A good manager, in this job, takes the good with the bad. You try to manage to be good all the time, but sometimes things don't happen that way. Mistakes happen and events you wouldn't have predicted take place. When that happens, you just roll with the punches and keep going."

"If you want to know where the state-of-the-art in composite-technology manufacturing is, it's here. There's no one else in the world doing this kind of work." –Frank Statkus



Richard Paul: leading by example

by Claire Faucett



Set a good example. That may sound like something a parent might tell a child to entice good behavior, but for retired Air Force **Maj. Gen. Dick Paul**, EE'66, it's the answer to effective leadership.

"I think the best way for me to inspire others is to try to behave in a way that I would like to see them behave," says Paul, vice-president for strategic development and analysis at Boeing Phantom Works in Seattle, Wash.

Phantom Works develops technologies for both defense and commercial purposes, says Paul, who supervises more than 250 people in the organization. "It does the full range of research and development, including engineering and information technology, structural and materials technology, and lean and efficient tools for design and manufacturing," says Paul. He mainly works on the defense side, finding opportunities where Boeing can support government laboratories and bring them new technologies.

Having retired from the Air Force in 2000 after 33 years of service, Paul

found this job a perfect fit because of his experience as commander of the Air Force Research Laboratory in Ohio. "For part of this job you need an understanding of how government labs can work, and since I had been in one for my last several years, I could bring that instant understanding to the job," he says.

His experience may have attracted him to the position, but it is the people he works with who keep him there. "I really enjoy working with both the Boeing people and the government people," says Paul. "I learn something new every day. I think when you are in the learning mode it makes it fun to come to work."

No stranger to leaping ahead of the learning curve, Paul – originally from Gallatin, Mo., a little town 90 miles north of Kansas City, Mo. – graduated from high school in a class of 45 people. "I'll never forget coming to UMR as a freshman," he says. "I still remember some of my fellow students from large high schools had already had two courses of calculus. They didn't offer calculus in my little school, so I thought, 'Uh-oh, I'm in trouble.' But things evened out after a semester or two."

Hard work comes to Paul's mind when he thinks of his UMR education. "It was a good, solid engineering education," he says. "It was hard work and the courses were rigorous – to pass a course you had to deliver. But the campus was still small enough that you knew your instructors and could go to them and get help when you needed them, and the environment was still somewhat personal."

In part, Paul believes this is what helped him develop the work ethic and leadership style he sports today. "There will always be road blocks thrown up and a leader needs to be the kind of person who doesn't get stopped at the first, second, or third road block – but stays put," he says.

Continuous change in the industry can often be responsible for these road blocks. "One of the fun things about being in a leadership position is dealing with change," he says. "Don't fight change. Go with it and try to be among those leading it."

**"Don't fight change.
Go with it and try to be
among those leading it."**

-Maj. Gen. Dick Paul

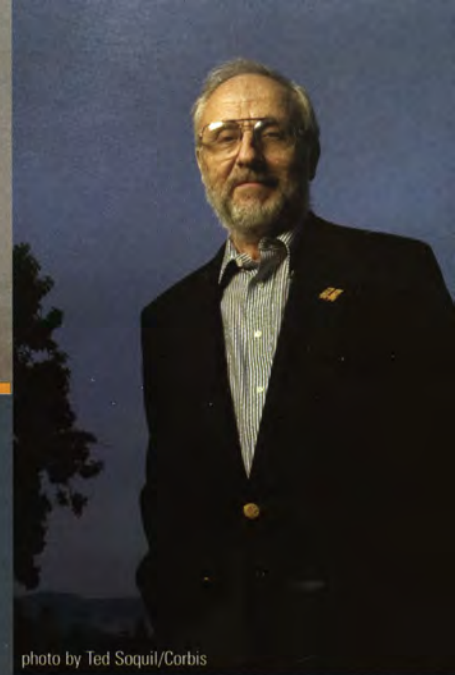


photo by Ted Soquill/Corbis

Twice is nice for E. David Spong

an MSM-UMR *Alumnus* interview

Most corporate leaders would be thrilled for their organizations to win a single Malcolm Baldrige National Quality Award. You can imagine, then, how **E. David Spong**, MS AE'68, feels.

As the only two-time winner of the Baldrige award – both times while leading a division of Boeing – Spong has accomplished the unthinkable. Now retired after more than four decades in the aerospace industry, Spong stays busy on the speaker's circuit, telling others the story of quality improvement.

Boeing's first Baldrige Award came in 1998, when Spong was with Boeing Airlift and Tanker Programs, producer of the C-17 Globemaster III airlifter. Five years later, as president of St. Louis-based Boeing Aerospace Support, Spong took home his second Baldrige – this one in the service category.

Recently, Spong visited with the *Alumnus* to talk about continuous improvement, his favorite soup and life as "the Rodney Dangerfield" of the aerospace business.

Alumnus: You went out on top and with a win.

I am the only person to lead two organizations to a Baldrige win, in two different businesses. While they are both divisions of Boeing, one is a manufacturing and one is a service organization. The Baldrige people love me as well, because they can brag and say, "See? It does work."

Alumnus: What does this latest award mean to Boeing in general, or even to Boeing Aerospace Support?

If you go for an award in anything, it motivates you to do better. In our three years (at Boeing Aerospace Support) we started off just using Baldrige to try and get better. As we went along and got better, it was, "Well, maybe we would be good enough to get a site visit (from Baldrige examiners)." Then it was, "Maybe we have a shot at winning the award." By chasing the award it actually spurs you on to better heights in terms of performance.

Alumnus: Why do you think Boeing Aerospace Support won the award? What was the key?

That's a question that has no answer. I particularly like soup, which is going to sound strange, and I particularly like bouillabaisse. Bouillabaisse has all sorts of stuff in it. I have no idea what it has in it – I just know that it tastes good. So my analogy was, "We do all these things. We do team-building, we make sure we have vision and values. We make sure our leaders

are visible and that they walk the talk – they do what they believe in. When you do all those things you end up with this collaborative environment. There isn't one thing. Maybe the one thing is that the leader must believe in all these things."

When you talk about a fighter airplane, that's a very exciting thing, very technologically driven. A lot of clever engineers were involved in designing it. But when you look at the after market, like aerospace support, there is much less technology. It's not very exciting. What's the man's name that doesn't get any respect?

Alumnus: Rodney Dangerfield.

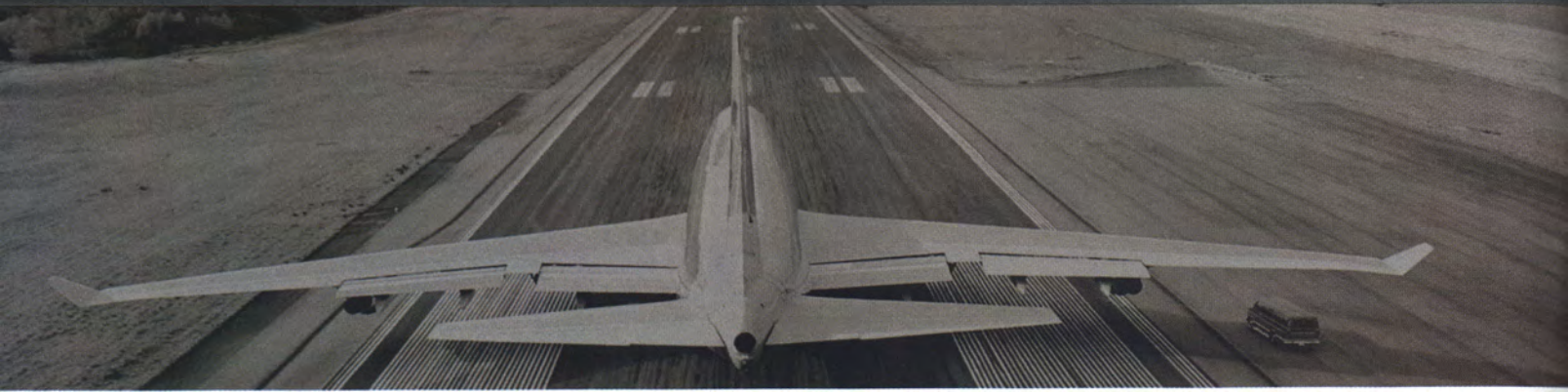
That's right. I call us the Rodney Dangerfield of the business. But then, all of a sudden this organization wins this award, and they are all walking around 10 feet tall. Finally they got some respect. Anyone who feels good about coming to work every day is going to do a better job.

Alumnus: What do you see is the primary challenge for the industry and ultimately what will make it stronger?

The industry is changing from what we call a platform-centric business, which is building lots of airplanes, to one where the focus and emphasis will be on the best way to use them. If you look at what's going on now, the United States is still the world's policeman, but what's going on in Afghanistan and Iraq is different. The ability to counter those threats is going to mean we have to do things differently. We must have the ability to integrate their operations in such a way that we minimize loss of life while maximizing effectiveness.

Alumnus: The idea of total quality management has been around for quite some time. What do you see as the key issue related to quality management that will become critical to business in the coming years?

Again, mostly the focus on processes, and a leadership style that goes away from a dictatorial management style. Most people won't live under a dictatorial style anymore. If the leaders don't change, ultimately the performance will suffer. If all of the power and all of the decision-making is held at the highest level, you'll just never get a high-performing organization.



It all adds up for Raquel P. Cundiff

by Mindy Limback (limbackm@umr.edu)

Take a high school math whiz, add in athletic talent, and multiply that by a desire to work in innovation and you get **Raquel P. Cundiff**, ME'93, a stress analyst for Boeing's 747-400 Special Freighter Modification Program.

"Boeing has built a great reputation for being the company with advanced technology in the aerospace industry," Cundiff says. "They are always striving to create new and better products."

To meet the demand for air cargo planes, Boeing initiated a program to convert 747-400s from passenger airplanes to freighters. "My job entails analyzing the existing passenger structure and strengthening the structure so it can be used as a cargo freighter," Cundiff says.

Before joining Boeing, Cundiff worked as a structures engineer for TIMCO, a maintenance facility in North Carolina. She has since moved up the ranks from a liaison engineer, to a structures engineer, and now into her current position as a stress analyst. "The advantage of working for Boeing is that you can have the option to stay in one job position or move to a variety of positions," she says.

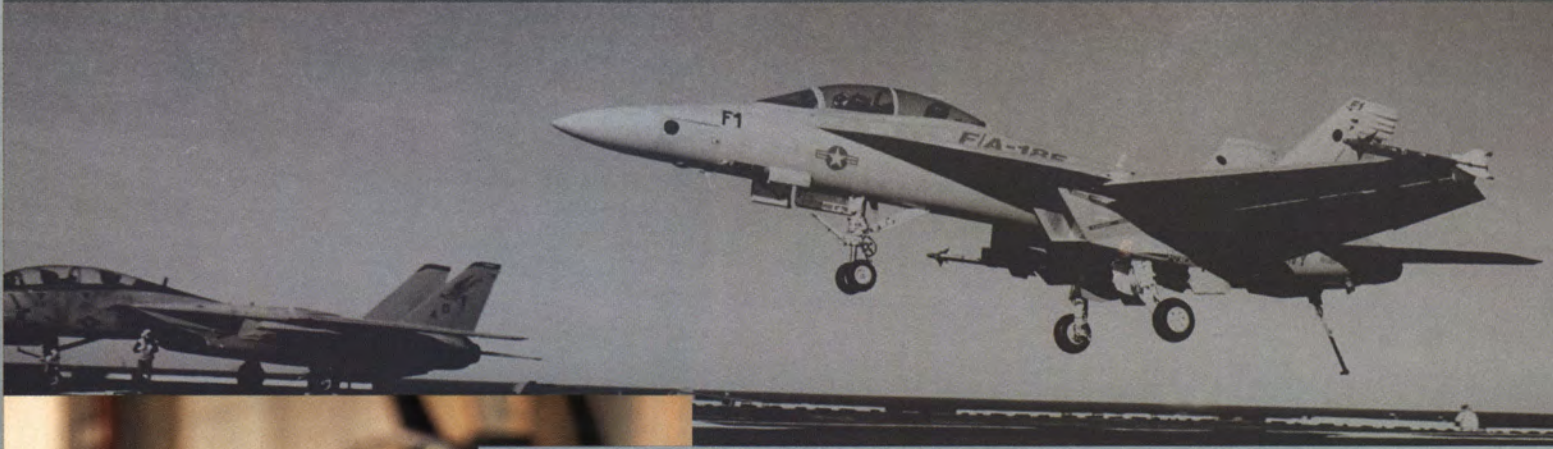
Cundiff came to UMR on a softball athletic scholarship after attending St. Louis Community College at Forest Park. "Without the help of good friends, whether it is peers of the same age or in class or teachers, I may not have been able to enjoy my years in school," she says. "For example, the professor of my aerospace engineering classes, **S.N. Balakrishnan**, showed me that engineering school can be fun while you are learning."

"Boeing has built a great reputation for being the company with advanced technology in the aerospace industry. They are always striving to create new and better products."

-Raquel P. Cundiff



photo courtesy of Boeing



An engineering 'architect'

by Claire Faucett

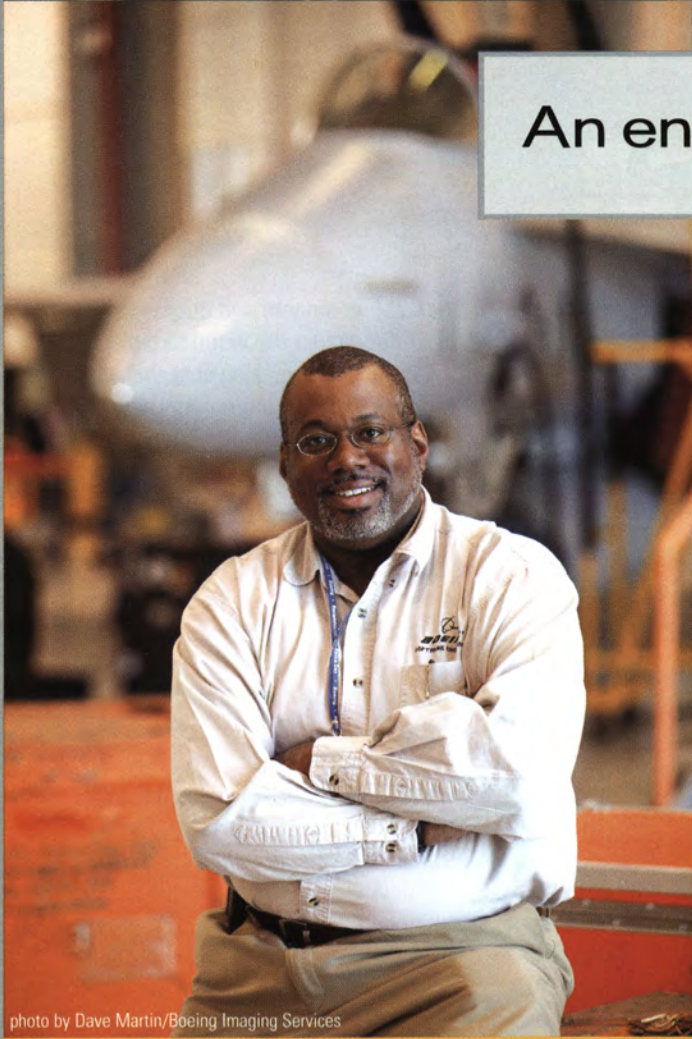


photo by Dave Martin/Boeing Imaging Services

"Two of the most important things any engineering student can do is get the best possible grades and gain as much experience coming through college as he or she can."

-Michael Emanuel

An engineer was born when McDonnell Douglas selected **Michael Emanuel**, EE'87, to participate in a summer internship program following his sophomore year of high school.

"It opened my eyes to what a career in engineering could be like, and what it would be like to work at a place like Boeing," says Emanuel, now manager of Boeing's Digital Systems Group for Integrated Defense Simulation. (McDonnell Douglas merged with Boeing in the 1990s.)

While the high school internship program sparked Emanuel's interest in engineering, it was UMR that taught him to think like an engineer. "Professors had time to talk to you and were hands-on, expecting you to learn by doing."

After graduation, Emanuel went to work in Boeing's non-destructive testing lab designing ultrasonic scanning machines to scan composite parts for flaws. After six years he went to work for Flight Simulation.

"My first job was to design all the cockpit wiring for what is now the F/A-18 E/F flight simulator," says Emanuel. "It was exciting to be able to get in on the ground floor of an advanced aircraft program like Super Hornet."

As manager, Emanuel is in charge of an F/A-18 E/F flight simulator and related programs. "My role on these programs is to be the senior architect," he says. "When I was a young engineer and just working on my little piece of the design puzzle, I always wanted to be the guy to put the grand ideas together. Now I'm really enjoying this phase because I get to establish the framework, and then have the team of the engineers fill in the blanks."

When looking for new engineers to add to his team, Emanuel looks for a combination of factors. "Two of the most important things any engineering student can do is get the best possible grades and gain as much experience coming through college as he or she can," he says. "Work on the solar car team, build a robot, let us know that you did something more than sit in class."



photo by Peter George/Boeing Imaging Services

Taking the plunge

by Melissa Dereberry

Standing sideways on the threshold of the airplane's open door, **John Eash**, AE'79, MS EMgt'90, could feel the adrenaline pumping through his system. He and other members of UMR's Sport Parachute Club were cruising at an altitude of 14,000 feet, preparing to jump. The raw exhilaration and fear he felt when he stepped into the air was something he would never forget, nor wish to repeat.

That daunting first – and last – jump didn't dampen Eash's interest in flight, however, and the UMR freshman channeled his curiosity into a degree in aerospace engineering. In less than a year, Eash was testing aircraft hydraulic systems for McDonnell Douglas through UMR's Cooperative Education Program.

Inspired by his father, a design engineer for McDonnell Aircraft Co. and later McDonnell Douglas Corp., Eash was thrilled with his co-op experience. "After completing my flight test co-op assignment, I knew that a job in a flight environment was a good fit with my education and interests," Eash says.

After graduation, Eash began his career at McDonnell Douglas as a flight test engineer. Now, 26 years later, he conducts a lofty mission from the ground, helping to secure our nation's defense systems.

"I credit UMR for preparing me in several ways – developing logical approaches to solving problems, communicating effectively with diverse groups of people and organizing teams to accomplish a goal."

–John Eash

"We have more than 250 engineers and quality representatives deployed throughout the world to build relationships with our key suppliers, making sure their products meet the needs of our defense programs and their customers," says Eash, who works with defense programs and products for Boeing in St. Louis as director of Integrated Defense Systems (IDS) Supplier Quality and Development in the company's supplier management and procurement division.

Eash believes UMR gave him the tools he needed to build a successful career in aerospace engineering. "I credit UMR for preparing me in several ways – developing logical approaches to solving problems, communicating effectively with diverse groups of people and organizing teams to accomplish a goal," says Eash.

Still tied to his roots at UMR, Eash serves on the MSM-UMR Alumni Association's board of directors and has helped Boeing host numerous recruitment events for high school students. "Boeing is a great supporter of UMR and campus recruiting," says Eash.

In recruiting for UMR, Eash is on the lookout for the next generation of aerospace engineers. "There are great opportunities for people with the right skills and experience as the aerospace industry requires new solutions to meet commercial and defense customers' evolving business needs," Eash says. "These changing demands will require new skills and ways of thinking to develop systems solutions."

When he is not leading his team on the job, Eash can be found in the great outdoors, playing golf, fishing and swimming. While he is not a pilot himself and you probably won't catch him parachuting again anytime soon, Eash does like to fly. "I do enjoy commercial flying on (what else?) Boeing products!"

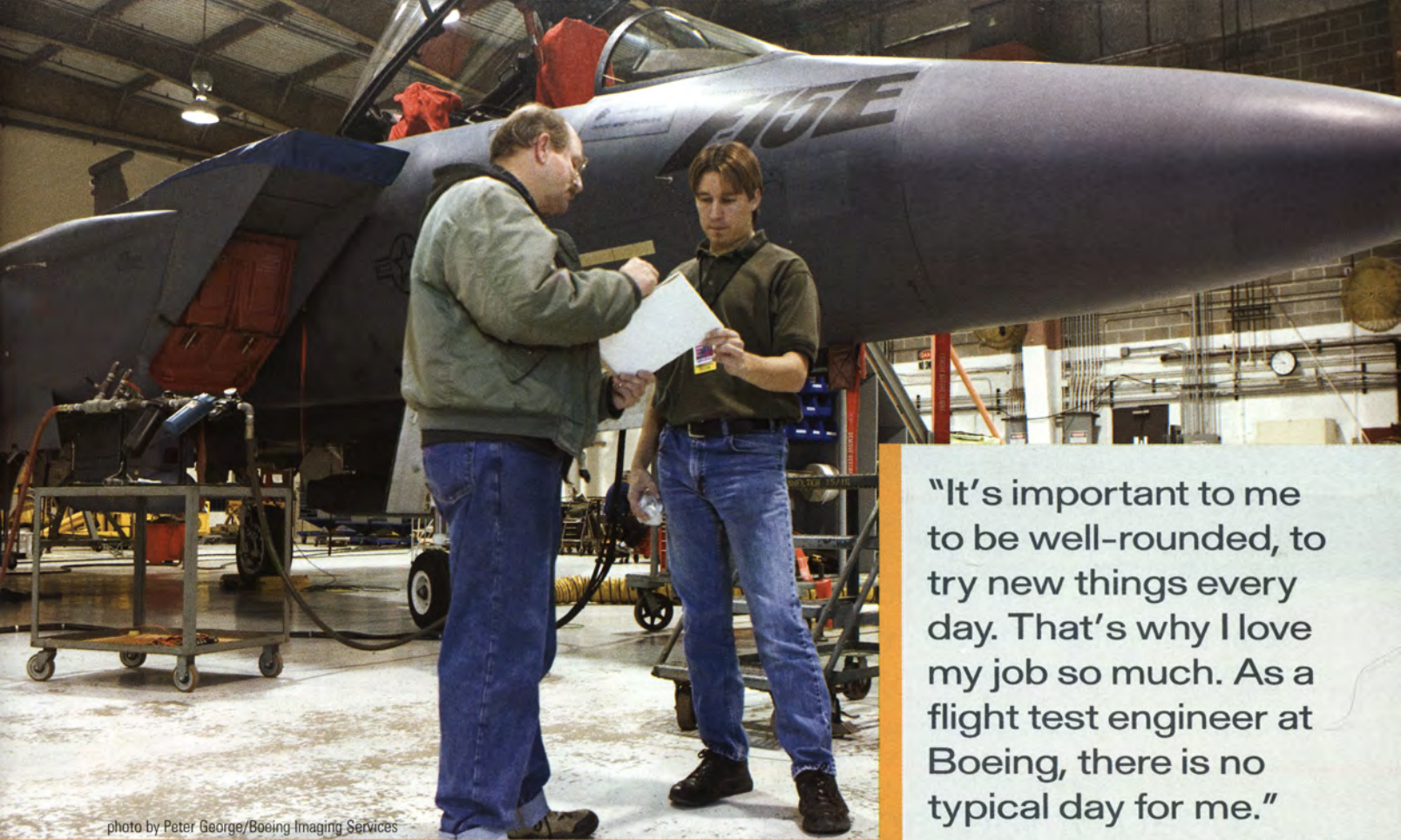


photo by Peter George/Boeing Imaging Services

Edward Hill (right) discusses flight test results on an F-15 with a co-worker.

"It's important to me to be well-rounded, to try new things every day. That's why I love my job so much. As a flight test engineer at Boeing, there is no typical day for me."

-Edward Hill

Fly by day, rock by night

by Amy Edwards (acewv8@umr.edu)

By day he tests new aircraft systems as a flight test engineer for Boeing in St. Louis. But at night, **Edward Hill**, AE'01, plays lead guitar for his band, The Ruckus.

Hill has always tried to stay involved with undertakings outside of the engineering, science and mathematics spectrum. At UMR he learned about European history for his minor, while studying engineering mechanics and jet propulsion for his major, and spending his spare time working on Student Council.

"It's important to me to be well-rounded, to try new things every day," says Hill, who began working for Boeing right after graduation from UMR. "That's why I love my job so much. As a flight test engineer at Boeing, there is no typical day for me. Every day brings new and exciting projects and opportunities."

Hill, who works in the military side of Boeing, says his favorite project involved the F-15 Eagle aircraft.

"We had a program where the F-15 was commanding a T-33, known as the Shooting Star, which was set up to perform unmanned," Hill says. "The F-15 sent commands to the T-33 about where and how to fly, and software on the T-33 executed

those commands. This T-33 is a surrogate jet that Boeing uses to test systems and software that will eventually fly on the X-45 JUCAS, which is an unmanned air vehicle."

Hill's job on the program was to work with the engineers who designed the software being tested, as well as "NASA at Dryden Flight Research Center, whose range, hangar, and testing equipment we used; the air crew of the F-15 and the T-33; maintenance and design engineers of the F-15 and my fellow flight test engineers," Hill says. "We made sure the test was planned and executed safely, and in a way that gave us the data we needed to see."

The F-15 may be Hill's favorite aircraft, but it's not the only plane he has studied. In the three years he has worked for Boeing, Hill says he has worked on at least three different airplane platforms, including the F/A-18 Hornet, T-45 Goshawk and the AV-8B Harrier.

Hill says his job at Boeing gives him a chance to travel and learn about all kinds of new technology.

"My duties change every day," Hill says, "and that's the way I like it."

photo by DeFilippo Photography

"If students are interested in flight controls and avionics, Boeing will be the company they will want to go to."

-Nelson O. Minter

Ahead of the 'software' game

by Mindy Limback (limbackm@umr.edu)

In 1978, before the average high school student knew about Microsoft Windows or Apple Macintosh, **Nelson O. Minter**, CSci'84, MS SysE'02, knew he wanted to study computer science. "When I graduated from UMR in 1984, the military side of computer software was picking up pretty well," Minter says. "It was toward the end of the Reagan years and the software opportunities were really good."

A member of Alpha Phi Alpha, Minter has fond memories of his time at UMR. "I owe my success at UMR to my fraternity advisor, **Lawrence George**," Minter says. "He and the upperclassmen of Alpha Phi Alpha provided the guidance and support needed to complete my studies. And it was at UMR that I met and married my wife of 24 years, **Vickie Lynn Pugh**."

Minter joined McDonnell Douglas after graduation and worked for two years on the flight software for the Tomahawk cruise missile program. Given the opportunity to move west, Minter spent the next four years on an advanced cruise missile program at General Dynamics in San Diego. By 1991, many large companies were downsizing, and he went to work for Boeing, first on the F/A-22 Raptor in Seattle and then on the V-22 Osprey in Philadelphia.

"I really liked the work in Philadelphia," Minter says. "The helicopter had this folding capability so that it could fit on the aircraft cruisers. As one of the main integrators of its blade

fold and wing stow system, I had a good chance to interface with a lot of the subsystems, from the wing stow folks to the aircraft people. I helped lead the software development effort that was going to integrate all those systems."

In 1998, Minter returned to St. Louis to work on the new unmanned combat air system, focusing on the common software requirements deployed on both the air vehicle and ground station computers. In April, a Boeing X-45A unmanned combat aircraft made history when it released a small, non-explosive GPS-guided smart bomb that hit a ground target at a Navy test range in California.

Minter credits Boeing, in conjunction with UMR, for developing a systems engineering graduate program. As one of the first Boeing employees to graduate from the program, Minter says he really enjoys working for a "progressive and leading-edge company."

"My dream from the very start was to support space operations," Minter says. "At Boeing, I am still pursuing that dream."

"If students are interested in flight controls and avionics, Boeing will be the company they will want to go to. And software is used heavily in every industry from car manufacturing to video games. There's a wide opportunity for software developers and systems engineers as well."



Out of the comfort zone

by Mary Helen Stoltz (mhstoltz@umr.edu)

During a business internship at Boeing in the summer of 2003, **Sylvia (Skouby) Strackeljahn**, EMgt'03, gave her resume to the electronic systems engineering department. The staff was so impressed by her combination of business know-how and engineering skills they created a position for her. "They liked what they saw and were looking for something different," Strackeljahn says. She started full time with Boeing in January.

As an associate engineer with the F-15 program at Boeing Integrated Defense Systems in St. Louis, Strackeljahn works on the Advanced Display Core Processor (ADCP) hardware team.

Her engineering management background allows her to work closely with the program managers on the business side, but also to interact with the project's engineers.

"I work with the avionics of the F-15 in a department made up primarily of electrical engineers," Strackeljahn says. "I'm not an electrical engineer, but I have basic engineering knowledge, so I can interface with them and understand what is going on. But with my job, I don't have to dive into the details."

The ADCP operates like a computer CPU, Strackeljahn says, taking in information, processing it and sending it out to the aircraft's displays for the pilots to view. Currently in the development phase, the ADCP does the work that used to require two separate components. Learning how it fits together and how it works in the airplane has been Strackeljahn's biggest challenge. "It's a very intricate and complex box."

Her co-workers have made the learning process a smooth one. "I work with wonderful people who are excited about their jobs and also very knowledgeable," she says. "They have helped me develop my understanding of this project, but they also helped me transition into the working world."

When she's not meeting with suppliers in Albuquerque, N.M., or visiting the F-15 system program office at Wright-Patterson Air Force Base in Dayton, Ohio, Strackeljahn is in the office by 6:30 a.m., catching up on email, looking over anything she might have missed from the previous day and preparing for the day ahead.



photo by Peter George/Boeing Imaging Services

"The program is very dynamic," she says. "There is really no set thing we do every day. Because it's still a development program, there are so many things that continuously pop up that you wouldn't foresee."

In her spare time, Strackeljahn stays active in Kappa Delta sorority, serving on the UMR chapter's house corporation board. She is also active in Kappa Delta's St. Louis Alumnae Association, helping organize the group's Shamrock philanthropy project, a 5-kilometer run/walk to be held in March.

Strackeljahn and her husband, **Sam**, ME'03, also work with the MSM-UMR Alumni Association as alumni ambassadors, spreading the word about UMR to prospective students at college fairs and recruitment events.

"I really believe UMR is a wonderful university," Strackeljahn says. "The opportunities for teamwork in the classroom and the leadership opportunities on campus gave me the background I needed to quickly jump ahead at Boeing."

In her first three weeks on the job she gave a presentation at a meeting. The lead engineer of the F-15 program told her what a great job she did and was shocked to learn she was so new in the company. "I learned so much at UMR and I have been able to adjust so well to work."

"UMR makes you step out of your comfort zone in the classroom, before you get to work, and that has been a tremendous help," Strackeljahn says. "It gave me confidence when it mattered. UMR really prepared me for what I was going to see when I graduated."

"I really believe UMR is a wonderful university. The opportunities for teamwork in the classroom and the leadership opportunities on campus gave me the background I needed to quickly jump ahead at Boeing."

-Sylvia Strackeljahn

Autumn Gala



Ted Weise, EE'67, bidding during the live auction



Janice and Ron, ChE'64, Miller



Dick Elgin, CE'74, MS CE'76, and Brad Hornburg, CE'69



Sunspot with her new owners Craig, EMgt'79, and Stephanie O'Dear, center, with Kim Brinkmann, left, Bob Brinkmann, CE'71, right, and UMR student Stephanie Maiden, far right.



Steve, MS CSci'68, and Shari Tebo with Connie and Joseph, CE'81, Grimes



Jane and Wayne, EE'41, Bennetsen



Mary and Jeff, EMgt'79, Steinhart

Located high above the banks of the Missouri River, La Charrette, the St. Albans, Mo., home of Bob, CE'71, and Kim Brinkmann, is steeped in the history of explorers Lewis and Clark and pioneer Daniel Boone.

La Charrette was also a perfect setting for UMR's first Autumn Gala, held Saturday, Oct. 23, to raise money for the UMR Student Design Center.

Following a delicious dinner, alumni and friends bid on a variety of items in both silent and live auctions. Auction items included an Alaskan fishing trip, a yellow Labrador retriever puppy named "Sunspot," hand-made furniture, artwork, a vintage motor scooter and much more. Guests also had a chance to bid on an authentic concrete canoe, which was built by UMR students through the Student Design Center. Combined, the silent and live auctions raised more than \$60,000 for the center.

The UMR Student Design Center encourages a multidisciplinary approach to competitive design projects like the solar car, the solar house and the steel bridge. Students from departments all across the university participate on projects that take them out of the classroom to conceive, design and build real-world machines. In the process, they learn critical business skills and gain the hands-on experience employers are looking for.



photos by Bob Phelan/Photomasters

For more on UMR student design, log on to design.umn.edu

UMR ranked among top 25 campuses for entrepreneurship

UMR joined the ranks of the University of Notre Dame, Syracuse University, and Stanford University in October when *Forbes* magazine and the *Princeton Review* named UMR one of the top 25 entrepreneurial schools in the nation.

UMR was ranked 22 among 357 campuses for entrepreneurship in the survey, which ranked schools on such criteria as the number of alumni who are prominent entrepreneurs, school-sponsored programs specifically designed to help students launch businesses, and research grant relationships with corporations or government agencies.

UMR was recognized for a senior capstone course in the School of Management and Information Systems that gives students real-world experience in launching a business, for the Residential College's Global Entrepreneurship Learning Community to be housed in the campus' new residential complex, and for the Center for Entrepreneurship and Outreach (CEO).

"This is great news for UMR," says **Madhu Reddy**, assistant professor of business administration and information science and technology at UMR and capstone course instructor. "It shows the hard work that SM&IS is doing in this area is paying off."

UMR also works with businesses in the marketplace and faculty to tailor UMR research into a service or product that fits current industry needs. "The UMR campus has embraced entrepreneurship through education, research and service," says **Amy Light Mills**, executive director of the CEO. "It is exciting to consider the impact of these activities on our community and state."

Through the Residential College's Global Entrepreneurship Learning Community, more than 60 multidisciplinary students each year will be immersed in learning and living through a non-traditional residential setting.

"By bringing business, management, technology and entrepreneurship to our campus we have been able to receive national recognition," says **Arlan DeKock**, dean of the School of Management and Information Systems. "It's UMR's goal to bring an entrepreneurial culture to the entire campus."

UMR was recognized for a senior capstone course in the School of Management and Information Systems that gives students real-world experience in launching a business, for the Residential College's Global Entrepreneurship Learning Community, to be housed in the campus' new residential complex, and for the Center for Entrepreneurship and Outreach (CEO).

Nuclear engineering program receives \$1.2 million in grants

UMR's nuclear engineering program has received \$1.2 million in grants from the U.S. Department of Energy to expand teaching and research opportunities. The funds were awarded through DOE's Innovations in Nuclear Infrastructure and Education (INIE) program.

The grants will be used to attract more students to the program, hire an additional tenure-track faculty member, establish a new two-phase flow laboratory and a new research area in nuclear waste management, create a distance-learning program in V-Brick technology, and create a program to assist under-represented institutions.

A 'Cadillac' of fraternities turns 40

A Cadillac dealership isn't what many people picture when they think of a fraternity house, but for more than 30 UMR students of Alpha Phi Alpha fraternity, in August 1965, it was home.

"The rules in 1965 required that Greek organizations provide housing and all the amenities required for them to function independently," explains **Lawrence George**, chapter advisor and assistant to the chancellor for affirmative action and equal opportunity at UMR. "In addition, the city of Rolla required adequate parking space to accommodate the residents of the fraternity house. None of these items were in place in May 1965."

That is, until late Rolla businessman William B. Stoltz offered to lease the organization the former car dealership's building and completely renovate the space.

Now with a home on Rolla street, the fraternity is looking forward to reuniting with its alumni at its 40th anniversary celebration, to be held from April 29 to May 1, 2005. For more information, email epsiadmin@epsialumni.com.

An A in school safety by Joel Currier *St. Louis Post-Dispatch*

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photo by Bob Phelan/Photomasters

Keith Homco holds the compact jump-drive that helps law enforcement officials stay on top of things in a crisis.

Editor's note: This article about UMR freshman Keith Homco appeared in the Aug. 8, 2004, issue of the St. Louis Post-Dispatch and is reprinted here with permission from the Post-Dispatch.

Keith Homco left for college hoping he had made about 8,000 Missouri students a little safer from the threat of tornadoes, earthquakes, fires, school shootings and hostage situations.

Homco, 18, of Troy, Mo., spent the summer developing a compact device that could help emergency personnel respond more effectively to a school crisis.

Thanks to Homco and the Lincoln County Sheriff's Department, the officers in the county's 17 schools are now equipped with portable computer hard drives the size of cigarette lighters. They store up-to-date information and resources about how to respond during a school emergency.

"I hope they don't have to use it," said Homco, who graduated from Troy Buchanan High School in June and starts his first year at UMR this month (August 2004). "I feel better knowing I'm making it a little easier for them to do the job, that it will help out in the long run."

Each of the department's seven school resource officers — law enforcement officers assigned to schools — got the 1-gigabyte "jump-drives" this week in preparation for the school year. The seven officers rotate among the Silex, Elsberry, Winfield and Troy school districts.

In case of an emergency, the jump-drives can be plugged into any desktop or laptop computer. They hold detailed information about the county's four public school districts, including evacuation routes, building diagrams and contact information.

The data appear on a computer screen like a scroll-down website, Homco said, and include specific crisis response tactics, aided by aerial satellite maps, helicopter landing zones, recommended sites for setting up roadblocks and command posts for emergency personnel and members of the media.

"This will help (law enforcement) know what to do so they don't make the wrong move, so they won't jump into a situation where they may actually make things worse," Homco said.

Lincoln County Sheriff Dan Torres said the jump-drives fit inside a pants pocket or on a key fob. They replace the three-ring binders and compact discs that have stored the department's crisis management plan for the last four years.

"In a crisis, you're going to have 50 million things going on," Torres said. "The more you have organized, the less you're going to have to deal with." The project cost about \$2,000, Torres said, and saved taxpayers \$10,000 to \$13,000 more than a professional company would have charged.

Sheldon Lineback, executive director of the Missouri Police Chiefs Association in Jefferson City, said the use of jump-drives as well as Internet and computer technology to boost communication has become increasingly common statewide since the 2001 terrorist attacks.

"Obviously, there's a new heightened awareness," he said. "Everybody's moving in that direction. The tools may be different, but the objective is the same."

Six named Deans Teaching Scholars

New program recognizes quality in the classroom

Six faculty members are the initial winners of the Deans Teaching Scholars Award, through a program created this fall to recognize faculty for their quality instruction in the classroom.

"The award is designed to promote and encourage excellence across campus," says **Harvest Collier**, professor of chemistry and vice provost for graduate and undergraduate studies at UMR. The graduate and undergraduate studies office coordinates the program.

The deans for each school or college select award winners based on student course evaluations, department chair recommendations, and evidence of good teaching practices. The recipients are appointed to a three-year term and receive \$2,000 per year.

Deans Teaching Scholars

Diana Ahmad, archivist and assistant professor of history and political science, College of Arts and Sciences

D.J. Belarbi, professor of civil, architectural and environmental engineering, School of Engineering

Ralph Flori Jr., associate professor of basic engineering, School of Engineering

Kurt Kosbar, associate professor of electrical and computer engineering, School of Engineering

Yinfa Ma, associate professor chemistry, College of Arts and Sciences

Kent Peaslee, associate professor of metallurgical engineering, School of Materials, Energy and Earth Resources

FOR QUESTIONS ABOUT CAMPUS NEWS
CONTACT NEWS@UMR.EDU

Chancellor's search committee formed

UM System President **Elson S. Floyd** has appointed a 20-member search committee to help find a new chancellor for UMR. In September, current Chancellor **Gary Thomas** announced his intention to retire Aug. 31, 2005. Thomas has served as chancellor since Sept. 1, 2000.

Larry Gragg, Distinguished Teaching Professor of history and chair of the UMR department of history and political science, chairs the search committee. Other committee members include:

Craig Adams, the John and Susan Mathes Missouri Professor of Civil Engineering

Richard K. Brow, Curators' professor and chair of materials science and engineering

Carl Burns, director of counseling and academic support programs

Harvest Collier, professor of chemistry and vice provost for graduate and undergraduate studies

Connie Eggert, vice chancellor of University Advancement

Jennifer Fry, chair of UMR Staff Council and an environmental specialist in environmental health and safety

Jerry Giger, associate superintendent for curriculum of Rolla Public Schools

Jay Goff, dean of enrollment management

Richard Hall, associate dean of the School of Management and Information Systems and professor of information science and technology

Larry Hendren, MinE'73, president of the MSM-UMR Alumni Association and president of Engineering Surveys and Services in Columbia, Mo.

Michael G. Hilgers, president of the UMR Academic Council and associate professor of computer science

Paula M. Lutz, Chem'76, dean of the College of Arts and Sciences

John Mathes, CE'67, MS CE'68, a member of the UMR Board of Trustees and Curator Emeritus of the University of Missouri

Melanie Mormile, associate professor of biological sciences

Marvin Patton, director of physical facilities

E. Keith Stanek, professor of electrical and computer engineering

Laura Stoll, registrar

Julia Rosemann, UMR Student Council president

Prasenjit Shil, MS EMgt'04, UMR Council of Graduate Students president

Remmers Series



Walter and Miriam Remmers with former CBS News correspondent Charles Kuralt – 1984

On a writing desk in Miriam Remmers' home sits a framed photo of the late television journalist and author Charles Kuralt with Miriam and her late husband, **Walter**, MetE'23, MS MetE'24. The photo, taken on the day of Kuralt's October 1984 speech at UMR, is one of many mementos she's saved during the 25 years of the Remmers Special Artist/Lecturer Series.

From pianists and opera singers to a scientist who unlocked the mysteries of DNA, from world leaders and award-winning journalists to a bicyclist who won the Tour de France an unprecedented six times, presenters in the series have brought a broad cultural cross section to the UMR campus and the Rolla community.

As you might imagine with such an excellent field to choose from, picking a favorite presenter is difficult for Mrs. Remmers.

"I've loved them all," she says. But if pressed, she would put Thomas J. "Tip" O'Neill Jr., former speaker of the U.S. House of Representatives, near the top of the list. "He was the most fun!"

Picking a least-favorite was a little easier, but only because of the evening's unfortunate circumstances. Opera singer Anna Moffo's 1986 performance was marred by illness.

"Anna Moffo was a wonderful soprano," Mrs. Remmers says, "but she came with a sore throat. She couldn't sing at all." Following the

THE REMMERS FILES

Presenter List



Gerald Ford, former U.S. president, March 1979

Leonard Pennario, pianist, March 1980 and October 1991

Henry Kissinger, former secretary of state, March 1981

Louis Rukeyser, business journalist, April 1982

Shlomo Mintz, violinist, April 1983

Thomas Peters, author and business consultant, January 1984

Charles Kuralt, CBS News correspondent, October 1984

Jeane Kirkpatrick, former U.S. ambassador to the United Nations, September 1985

Anna Moffo, opera singer, October 1986

Stansfield Turner, former CIA director, February 1987

Julian Bream, English guitarist and lutenist, November 1987

Caspar Weinberger, former U.S. secretary of defense, May 1988

Thomas J. "Tip" O'Neill Jr., former speaker of the U.S. House of Representatives, October 1988

William Crowe, former chairman of the U.S. Joint Chiefs of Staff, February 1990

turns 25

performance, Moffo went straight to the hospital and was diagnosed with pneumonia. Martin Jischke, then UMR chancellor, didn't care that she couldn't sing, Mrs. Remmers says. "He thought she had the loveliest eyes."

The high quality of the series was something Walter and Miriam Remmers insisted on from its inception in 1979.

"My husband wanted to invite people who were at the top of their field," Mrs. Remmers says. Walter had world leaders, businessmen and scientists in mind. But Miriam's love of music led the couple to expand the series to include renowned musicians. She was raised with an appreciation of music that continued during her college days in Massachusetts at Wellesley College and Mount Holyoke, where she studied piano.

When Walter was in school at MSM, there was a noticeable lack of cultural opportunities in Rolla, Mrs. Remmers says. Following his successful careers – as a metallurgist, an executive with Union Carbide and a cattle rancher – Mr. Remmers decided to do something special for the university that provided his educational foundation. His gift, which established the Remmers Special Artist/Lecturer Series, will help ensure that future generations of UMR students will leave campus with a broader cultural perspective than they arrived with.

Mrs. Remmers is pleased with the series and hopes it maintains the high level of quality she and Walter insisted upon. "I have lived a long time and have been exposed to a lot of wonderful things," she says. "I have absolutely no regrets."



Former House Speaker Tip O'Neill with the Remmerses – 1988

Miriam Remmers kept an extensive file on each of the series' 27 presenters. In addition to photos of her family with the various presenters, her files included programs from each lecture and performance, letters thanking her and Walter for their generous donation and, in many cases, personal letters from the performers, including a hand-written note from former British Prime Minister Margaret Thatcher. Last fall, Mrs. Remmers donated her collection to the UMR Archives for safe preservation with other historic MSM-UMR documents.



Oscar Arias Sanchez, former president of Costa Rica and Nobel Peace Prize winner, March 1991

C. Everett Koop, former U.S. surgeon general, January 1993

Margaret Thatcher, former British prime minister, February 1994

Colin Powell, U.S. secretary of state, April 1996

Sherrill Milnes, opera singer, January 1998

Bill Bradley, former U.S. senator and presidential candidate, February 1999

James Watson, DNA scientist and Nobel Prize winner, October 1999

Clarence Page, African American journalist and winner of the 1989 Pulitzer Prize for Commentary, March 2000

Steve and Cokie Roberts, award-winning journalists and best selling authors, April 2001

Denyce Graves, opera singer, September 2002

Lance Armstrong, six-time Tour de France-winning bicyclist, November 2003

Itzhak Perlman, violinist, September 2004



Miners

ROCK

50 years and counting

by Amy Edwards (acewv8@umr.edu)

"I could tell something was happening in 1952," says "American Bandstand" personality Dick Clark in an introduction to the book Rock & Roll at 50. According to many music critics, rock 'n' roll finally hit the airwaves two years later, escalating into the Golden Jubilee year that 2004 has widely been proclaimed.

2004 marks the 50th anniversary of the release of two singles many consider to be the first true rock 'n' roll hits: "Rock Around the Clock," by Bill Haley and the Comets, and Elvis Presley's recording of Mississippi bluesman Arthur Crudup's "That's Alright Mama." Was the sound new in 1954? No, it was already established nearly a decade before by black musicians like Crudup. But the music, considered by many to be a new, raucous force, was finally introduced to a broader audience as a new kind of rhythm and blues that loudly crooned about "rocking."

The rock clock has been ticking for quite a while, and UMR student radio station KMNr, located at 89.7 FM on Rolla-area dials, has assisted in rock's journey for 40 years — since the station's formation in 1964.

"We started out as KMSM," says **Jerry Kettler**, ME'65, a founding manager of the station who spent his three years at the station as educational program director and sports broadcaster. "The station had three watts of power. The radio stations in the Rolla area weren't the greatest, mostly country, and we wanted something different. We played jazz music, classical, folk ... just about everything."

Everything, that is, but rock 'n' roll.

"No, we really didn't play rock at first, and that was an intentional decision," Kettler says. Within years, however, the station was introducing the soul of rock 'n' roll, among other music genres, to Rolla students. Rock in all its varieties came to UMR students via KMNr's "free format" philosophy.

As former KMNr deejay **Mike Cogell**, NDD'82, explains, free format means no format.

"Our only guideline was to play what we liked and to not repeat a song aired by another deejay during the week," Cogell says. "In support of this, KMNr had the most amazing collection of albums I'd ever seen. We had more than 30,000 rock artists in our library in the early '80s, and an entire wall of jazz albums. These days a commercial radio station may have a total of 10,000 songs, and many get by with less."

Cogell says that KMNr deejays typically started out playing music from commercial stations. "But each of us quickly realized that there was a lot more music than we'd been hearing on commercial radio — and most of it was better than the top 40 we'd been exposed to," he says. "For instance, I spent most of 1980 listening to every album Jerry Garcia played on, and by following that single thread found my way into the bluegrass, folk and jazz sections of the library. I became aware of the importance of Hank Williams, Robert Johnson and Bob Dylan to what I knew as rock music, and tried to reflect that in my shows. There was, and is, so much good music that never gets airplay, and only a free-format station like KMNr has the ability to find it, play it and make it available."



Cogell's response to listeners who didn't like what the station played? "Our response to those who didn't like what was playing was 'KMNR is like Missouri weather - wait three hours and it will change.'"

Jeff Schramm, Hist'92, had a firsthand opportunity to see the station change greatly. A deejay during his collegiate years, Schramm, assistant professor of history and political science at UMR, is now advisor to the station.

"When I was working there, the station wasn't even located at the same place," Schramm says. "It was near Harris Hall, and it was a temporary building."

The station is now located on another part of campus, but the atmosphere, just like the song, remains the same. Located on 12th and Pine in Rolla, this free-format station is still proud to offer the energy, sexuality and danger of a diverse mix of music. Getting the word out about the station seems to be a study in grass-roots marketing. Stickers, fliers and posters decorate cars and buildings around Rolla - and around the country. Not long ago, a KMNR decal was spotted in a *Spin* magazine photo taken at the birthplace of New York City punk rock, CBGB's.

"When I worked at the station, our listeners always enjoyed the cultural pulse of the station," says **Mark Williams**, NucE'80, an avid Grateful Dead fan who runs The Rolling Bozo Revue, a website filled with KMNR alumni insight at www.rollingbozorevue.com.

The youthful exuberance of the station spread to other nearby stations. "There were a lot of other stations that took ideas from us," Williams says. "We were one of the first stations to make production tapes, funny skits on the station. And we had incredibly talented deejays." Among the KMNR legends was **Jon Fredrickson**, NucE'76, whom Williams credits with inventing "the 'seamless' segue on underground FM radio that many stations copied and strived for, but did not attain too frequently. Jon would mix all forms of music: rock, jazz, reggae, bluegrass, live comedy, poetry readings, beat writer recitals and you-name-it into a continuous and contiguous flow of music, sound, thoughts and abstract ideas that would keep you riveted for hours."

KMNR, like rock 'n' roll music itself, has always had that riveting effect on listeners, but the station hasn't existed all these years

without its own controversies. **Ward Silver**, EE'78, says there was one major controversy during his time with the station.

"It was in the process of successfully making the transition from being modeled on a commercial station to a more experimental format. This caused some political squabbling," Silver says. Luckily, "we continued to focus on the music and that saved the day."

The face of music, however, seems to change just as often as a superhero in a telephone booth.

"The music business today makes it even harder to find decent music to listen to," says **Jim "Howboy" Howe**, ME'80. "The pop-schlock machinery that offers up pretty faces as musical 'talents' sickens me," Howe says. "Bela Fleck has more musical talent in one toe than Britney (Spears) does in her entire body."

Howe has always felt this way about "talentless" musicians. "In 1978, Mark Williams and I said in a station ID, 'We don't go for that pre-pubescent no-brains pap here at KMNR,'" Howe says. That's only one of the amazing things about KMNR, especially in Cogell's mind.

"I think the thing that is most amazing about KMNR is that for years it has held onto its free format and has offered a platform from which students can express their diverse opinions," Cogell says. "It's a testament to the students who work there, a testament to the guidance of several faculty advisors, and a testament to the university administrations who have allowed the station to survive through tough economic times. Any time you encourage diversity you've got to be prepared to hear some things that sound strange, unsettling or threatening. You will also hear new and wonderful things, and you may find that your tastes and opinions change."

Cogell grew up with KMNR, and when he was young he "thought that every town had an oddball radio station."

"Now that I'm older and travel around the country, I realize just how rare KMNR is. Like it or hate it, there aren't many equal to it. If you like it, treasure it. If you hate it, come back in three hours - it'll change."

Whether playing the classic rock that's been around for 50 years, or the blues and folk that influenced rock, it's just like ABBA said: Thank you for the music, KMNR.





photo by Bob Phelan/Photomasters

UMR researcher Genda Chen, above, is developing a smart damper to keep buildings from shaking during earthquakes and external disturbances.

Putting a damper on earthquake destruction

The next time the New Madrid fault zone in Missouri produces a strong earthquake, buildings in the Midwest may see less damage if they're using a new device developed by UMR researcher **Genda Chen**.

Chen, an associate professor of civil engineering at UMR, has spent the past five years developing a "smart" damper that can adapt to external disturbances such as earthquakes and keep buildings from shaking as much. His most recent findings were included in the Sept. 12 issue of the *Journal of Structural Control and Health Monitoring*.

Chen's damper operates much like the brakes of an automobile. "When you drive and go too fast, you press the brake to slow down a little bit," Chen says. "Then you release the brake so you can keep your speed in a comfortable range. We're using the same concept for a building. If, during an earthquake, the building

shakes too much, we would like to 'brake it' using a friction device."

A prototype damper has been tested on a quarter-scale building structure inside a three-story high-bay structures laboratory in the Butler-Carlton Civil Engineering Building. "My goal is to build and test a 10-ton, full-scale damper in the near future, which can be used to mitigate seismic responses of actual buildings," Chen says.

In a mathematical study, Chen found that a 20-story building would need more than 80 block-sized dampers placed between floors. A V-shaped bracing support would be needed between each floor to keep the building stable. During an earthquake, sensors embedded in structure members would measure the amount of the building's movement. If the motion is outside the acceptable limits, a computer would send a signal to a piezoelectric actuator damper – a device that generates a counter-earthquake force when an electrical charge is applied. Once the motion was reduced, the damper would be lifted to allow the building to finish shaking at a much lower vibration level.

Moving to the beat of a different cell

The next battery-powered bunny may move to the beat of a different sort of battery – a solid-oxide fuel cell – with the help of a new glass-ceramic seal being developed by UMR materials researchers.

According to **Richard Brow**, chair of materials science and engineering at UMR, the sealants are one of the last technological barriers to making solid-oxide fuel cells work. "With luck we will surpass this barrier," Brow says, "and then we'll see fuel cells used in cars, homes and hospitals, along with the many other places they have been projected for use."

(Continued on the next page)

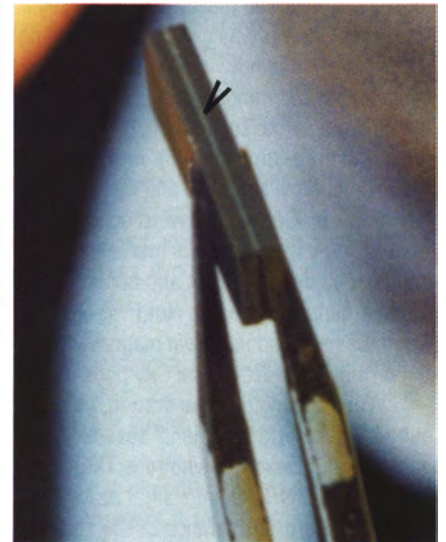


photo by Bob Phelan/Photomasters

Brow and his colleagues are trying to develop a stronger sealant for solid-oxide fuel cells from glass-ceramic materials. A close-up of the sealant, the thin gray area, is shown above.

CATCH *VISIONS*, UMR'S ONLINE RESEARCH MAGAZINE

Get the latest on UMR's research initiatives. Subscribe to *Visions*, UMR's online research magazine.

Go to visions.UMR.edu to sign up.

Through a \$278,527 grant from the U.S. Department of Energy, Brow and his colleagues are trying to develop a stronger sealant for solid-oxide fuel cells from glass-ceramic materials. "The quality of seals used in solid-oxide fuel cells are crucial to its overall performance," says Brow. "The seals separate the oxygen stream from the fuel stream so that a reaction doesn't occur in an uncontrolled fashion."

Fuel cells generate power more efficiently and cleaner than conventional methods, such as internal combustion. Not only can they be refueled, but when hydrogen is used as the fuel the only byproduct is water.

There's just one problem: fuel cells operate at very high temperatures (at or above 700 degrees Celsius or about 1,300 degrees Fahrenheit), which makes it difficult to find a sealant material that holds up under such harsh conditions, says Brow.

Once a suitable sealant is developed, however, fuel cells could be developed for a wide array of uses, including power systems for homes and businesses, vehicles, cell phones, laptop computers and some military technologies, Brow says.

Working with Brow are **Signo Reis**, a visiting scientist in the UMR Materials Research Center, and **Teng Zheng**, a Ph.D. student in ceramic engineering.

photo by Dan Seifert/Stone House Photography



Mine health and safety issues are being addressed through research at UMR.

Leading the way in mine safety

UMR receives \$4 million grant for five-year project

It's been more than two years since the Quecreek Mine disaster in Pennsylvania thrust the topic of mine safety into the spotlight. And while the general public doesn't often think about the issue until a mining mishap makes the news, researchers at UMR are working to make sure future incidents occur less frequently.

Last fall, UMR received a \$4.02 million grant from the Centers for Disease Control and Prevention's National Institute for Occupational Safety and Health to lead the Western U.S. Mining Safety and Health Training and Translation Center.

Through this five-year grant, UMR will lead a consortium of three other universities – the Colorado School of Mines, Montana Tech and the University of Utah – to address mine health and safety issues.

"The primary goal of the center is to reduce the number of injuries to miners through an integrated program of training intervention and translational research," says **R. Larry Grayson**, chair of mining engineering at UMR and the center's director. Research results from the center will be used to create mine health and safety training products, he adds. "Through training and translational efforts, the center will help address the developing gap in experience by capturing the expert knowledge and situation-based judgments of miners in some of the industry's most persistently hazardous jobs."



Tribologists help increase the life of tires by designing them with better road-handling properties.

Tribology: where the rubber meets the road

Vacationers are more likely to worry about travel routes and lodging accommodations than how their cars will get them to their destination. Not so for tribologists whose studies of how the rubber meets the road could put travelers' and truckers' minds at ease.

Some might think tribologists study aboriginal cultures, or a certain popular reality-TV program. But that isn't the case. "Not many people know about tribology," acknowledges **Brad Miller**, an assistant professor of mechanical engineering at UMR. Coined from the Greek word *tribos*, which means "rubbing," tribology is a branch of science and technology concerned with the way surfaces in relative motion interact.

"Tribology has three main thrusts: friction, lubrication and wear," Miller

says. "I like to use the automobile tire example in class. Tribologists are heavily involved in designing tires to provide better road-handling properties, minimizing the possibility of hydroplaning, and increasing the life of tires by reducing the rate of tire surface wear."

Friction is vital to automobiles, Miller says. "When a car goes over a puddle while it's raining, you can have hydroplaning, which results from a thin layer of water forming between the tire and the road. The job of a tribologist, in a tire manufacturing sense, is to design the veins in the car tire so that it wicks away the water fast enough."

While the term may rub you the wrong way, you should understand that tribology plays a significant role in people's lives. "Tribology is around people every day, they just don't know it," Miller explains.

"It's estimated that one third of our global energy consumption is consumed overcoming friction."

Bomb-proof buildings

If terrorists strike again, lives and buildings could be spared with bomb- and impact-resistant buildings constructed using concepts being developed by researchers in UMR's Rock Mechanics and Explosives Research Center (RMERC).

"Such designs will reduce, and in some cases prevent, serious damage to structures resulting from terrorist bomb attacks," says **Jason Baird**, PhD MinE'01, research assistant professor at the center. "Lives will be saved and the intensity of injuries will be reduced within these protected structures."

(Continued on the next page)



photo courtesy of Kontek

Blast- and impact-resistant barriers, like the one being tested above, will help prevent serious damage to buildings during terrorist attacks.

UMR is working with Kontek Industries of New Madrid, Mo., and the University of Missouri-Columbia to develop the blast-resistant technologies. As part of the effort, the researchers have created steel-reinforced concrete barriers that link to form a barricade that can resist a 200-pound TNT blast, followed by the impact of a 20,000-pound

truck traveling at 50 miles per hour. Kontek Barrier Systems are currently deployed on Department of Defense, Department of Energy, and nuclear facilities.

Prior to this development, barriers were not blast-resistant and were only effective in stopping a vehicle trying to ram through them. "The farther away you are from the blast, the safer,

but in big cities where buildings sit right on top of each other, distance is not an option," says Baird. "Something is needed to stop the blast before it destroys the structure and everything surrounding it."

The research is funded through \$2.4 million from the Defense Department.

Briefly

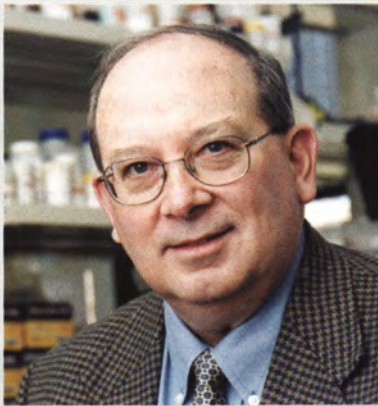


photo by Bob Phelan/Photomasters

NEW CHAIR FOR BIOLOGICAL SCIENCES

Robert S. Aronstam, former director and senior scientist at the Guthrie Research Institute in Sayre, Pa., became chair of UMR's biological sciences department on July 1, replacing **Ronald L. Frank**, associate professor of biological sciences, who had served as interim chair since July 2002.

Aronstam's area of expertise is in molecular neuroscience.

"Basically, I study how brain cells respond to each other and to their environment, and how these responses change in disease," he says. Aronstam also brings to UMR the cDNA Resource Center, a non-profit organization that provides full-length cDNA clones encoding human signal transduction proteins to the research community.

RAILROAD EXPERT IS LATEST WEINER PROFESSOR

H. Roger Grant, Centennial Professor of history at Clemson University, is the fifth Maxwell C. Weiner Distinguished Professor of Humanities at UMR. An expert in transportation history and American railroads, Grant will teach U.S. Transportation History in the UMR history and political science department next semester.

Grant has written or edited 22 books, including *Getting Around: Exploring Transportation History* (Krieger, 2002). His most recent

book, *Follow the Flag: A History of the Wabash Railroad Company*, was published earlier this year by Northern Illinois University Press.

UMR's Maxwell C. Weiner Distinguished Professorship in Humanities, established by an estate gift to the university in 1999, is rotated annually or biennially among academic departments in the UMR College of Arts and Sciences. Weiner, EE'41, also studied at the University of Hawaii and at Washington University in St. Louis. He was retired from Westinghouse Electric Corp.



Coach A.C. "Bud" Mercier



A.C. Bud Mercier
coaching golf – 1974

Less than one week after dozens of his former players returned to Rolla for his induction into the MSM-UMR Athletic Hall of Fame (*see story below*), former UMR football and golf coach **A.C. "Bud" Mercier** died of cancer at his home in Rolla. He was 68.

Coach Mercier, whose coaching career at UMR spanned 29 years, joined the UMR football coaching staff in 1967, a year after earning his master's degree from Arkansas State University, and served under head coach **Dewey Allgood** and later was assistant head coach under **Charlie Finley**. A 1959 graduate of the University of Missouri-Columbia, Coach Mercier died Thursday, Sept. 16, 2004.

While Coach Mercier was on the football coaching staff, the Miners won three league titles and had an undefeated season in 1980.

"Bud was one of the finest coaches that I ever worked with," says Allgood. "He did an excellent job as far as taking care of his part of the coaching, and off the field he was a good friend and a great recruiter."

Coach Mercier's induction into the MSM-UMR Athletic Hall of Fame was one of the greatest honors

for the coach, says Allgood. Although Coach Mercier was unable to attend the ceremony, dozens of his former players and others paid a visit after the ceremony. "We all went over to Bud's house after the ceremony and reminisced," says Allgood. "You could just see the satisfaction in his eyes that he had accomplished what he had set out to do in life."

At September's hall of fame ceremony, **Kim D. Colter**, ChE'73, a defensive back for the Miners under Coach Mercier's tutelage, described Coach Mercier's impact on his life during his days at UMR as well as after graduation. "He saw past my obvious limitations as measured by a stopwatch, scale and yardstick," said Colter, a Washington, Mo., physician who was Coach Mercier's doctor and is himself a cancer survivor. "He recognized some intangibles; some desire, determination, devotion and dedication." Recalling how Coach Mercier drove 1 1/2 hours during "the Great Ice of '91" to deliver "an old pair of golf shoes ... to keep (me) upright on the ice," Colter added: "There are even fewer who will make the same drive when they learn you have cancer to tell you, 'I wish I could take your place.'" (*Read more of Colter's remarks on the following page.*)

Mercier, Mullins, '86-'87 team join Hall of Fame

A.C. "Bud" Mercier, a long-time coach at UMR and **Susan (Mullins) Tibbits**, a standout player on a women's basketball team that was also recognized, were inducted into the MSM-UMR Athletic Hall of Fame Sept. 11.

Mercier served as the head coach of the Miners' golf program for 29 seasons and also spent 19 seasons as an assistant football coach. Under his direction, the golf team won the MIAA championship in 1969 and earned an eighth-place finish at the 1970 NCAA Division II Championships, a year in which it won a regional title. The team had three All-America performers during his tenure.

As the Miners' defensive backs coach, Mercier led UMR to win three league titles, including an undefeated season in 1980; he also coached an All-America performer in that sport. Mercier served as an assistant director of athletics during his time at UMR. Mercier died Sept. 16.

Tibbits was a key member of the Lady Miner basketball team during the mid-1980s as the program developed into one of the best

in the MIAA. She finished with 1,202 points in her playing career, which made her the top scorer in the history of the program at the end of her career in 1987. A strong inside player, Tibbits shot better than 50 percent in her last three years at UMR and led the 1986-87 team in scoring as it set a school record with its 19 wins. She earned honorable mention All-MIAA honors in each of her final three years at UMR.

The Lady Miners' 1986-87 women's basketball team reached a number of high-water marks in the history of the program during this campaign. The team opened the season with a school record 10 consecutive wins to earn a national ranking of No. 3 in NCAA Division II, then went on to win a record 19 games against eight losses. The team had four double-figure scorers that year and outscored its opponents by better than 10 points per game, the second-best scoring margin in UMR history. Included among the 19 wins that season were two over NCAA Division I opponents and the first-ever win over conference foe Northwest Missouri State.

'He gave me a chance to play'

The following excerpt is from remarks delivered by **Kim D. Colter**, ChE'73, in recognition of the late **A.C. "Bud" Mercier** during Coach Mercier's MSM-UMR Athletic Hall of Fame induction ceremony on Sept. 11. Coach Mercier died less than a week later.

I want to thank my coach, Coach Mercier. He saw past my obvious limitations as measured by stopwatch, scale, and yardstick. He recognized some intangibles: some desire, determination, devotion and dedication. He gave me a chance to play. He once outran me on a 69-yard interception return down the sideline at Kirksville. He scored, but I was caught from behind.

When all of Missouri is covered by three inches of ice as it was during the Great Ice of '91, there aren't many people who will drive an hour and a half each way to deliver an old pair of golf shoes to an aging defensive back to keep him upright on the ice. There are even fewer who will make the same drive when they learn you have cancer to tell you, "I wish I could take your place." To my coach, my patient, my friend: thank you, Bud Mercier.

*As I say these words, my thoughts land again and again on the line, He gave me a chance to play. I look around this room and see others he gave a chance to play. I see a young man from Kansas City who arrived in Rolla on his own initiative on the Trailways bus, accompanying a more highly touted prospect, and went on to become a legend in the memory of everyone he played with. Coach gave **Fred White** (ME'71) a chance to play. ... I see a young man recruited by Coach from the farm at Leslie, Mo. He recently told me that when he came to UMR, he didn't completely understand the rules of football, and the strategies*

*employed on different downs. When you go to the stadium tonight look in your program and see who has held the UMR single-game rushing record for 33 years. Coach gave **Steve Kubiak** ('72) a chance to play. ... I have read the hand-written letter on notebook paper sent to Coach by a young man from Sumner High School in St. Louis that says, "I'm 5'7," 148 pounds – wait, don't throw this letter away – I can two-hand dunk a basketball and they call me The Hit Man." He gave **Lloyd "The Hit Man" Flowers** (CE'88) a chance to play.*

There are so many here who were given that chance to play. ... This room is filled with athletes whose Nikes I am not fit to untie. But somehow, I am the chosen one, the lucky one. I've had the privilege of being his doctor and seeing the heroism with which he has fought two cancers. I have seen the courage of his family as they stand with him in this fight. There isn't much you can say for this demonic disease, cancer. But it does cut right through the crusts and defenses and allow grown men to say to each other, "I love you," as so many of us have said to him and he has said to us recently.

We stand before you: doctors, CEOs, fighter pilots, construction managers, Ph.D. educators, business owners, members of multiple boards of directors. To a man, we would tell you that struggling as young men to play this kid's game to the best of our abilities for a man we loved, and who loved us, was one of the most powerful



UMR Miner Kim Colter



Dr. Kim Colter

influences in our lives. As I have conversed with my teammates over these last weeks, I have heard again and again about what he taught us regarding life off the football field; the importance of family, of strong faith, of taking responsibility for one's actions, the importance of a work ethic, and the importance of knowing when it was time to relax a little, celebrate a bit, and then get back to work. ...Coach, on behalf of your athletes, we congratulate you on your entry to the Hall of Fame.

Coach, you could have had better athletes, and Lord knows you probably deserved better athletes, but Coach, no athletes could have appreciated you or loved you more than the athletes you had.

Hamera national award winner

One day after being named as the Missouri state finalist for the NCAA Woman of the Year award, Kate Hamera, AE'04, picked up another major honor for her performance as a student-athlete at UMR. Hamera received the Division II Conference Commissioners Association's Scholar-Athlete of the Year award for the 2003-04 season, an award sponsored by Disney's Wide World of Sports Complex.

A native of Easton, Mo., who is currently attending graduate school at the University of Colorado-Boulder, Hamera was one of eight women finalists.



Member Benefits

As a graduate 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: (573) 341-4706
Email: alumni@umr.edu
Web: alumni.umr.edu

A new era for MSM-UMR Alumni Association

by Amy Edwards (acewv8@umr.edu)

With the election of **Larry Hendren**, MinE'73, as the president of the MSM-UMR Alumni Association, a new era begins for the organization. Hendren has several plans to strengthen the association and UMR, and encourage growth within the university.

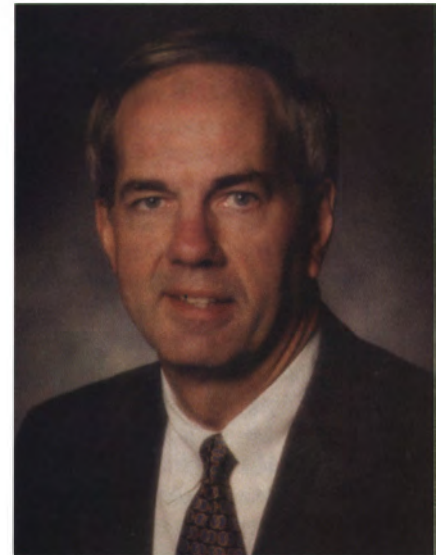
"I've greatly benefited from my experience at UMR," Hendren says, "and I hope that many other potential students can someday say the same."

One of Hendren's goals as president is to increase involvement in the alumni association, especially among younger alumni. He also hopes to keep alumni involved with the university's networking opportunities.

Hendren understands the value of a UMR education. In fact, he has seen how networking within the UMR community has already opened doors for his son, **Matt Hendren**, a senior at UMR.

"His time on campus has already been beneficial," Hendren says. "His bosses at both his co-op in Australia and summer job in Albuquerque told him that Rolla's students immediately come with a good reputation. I'd like to continue to emphasize and promote these connections."

Hendren's most valued goal, however, is to maintain and expand the association's role with legislative affairs. "This is something I've been pretty close to for the last 10 years," says Hendren, who previously chaired the Alumni Association's government relations board. "State funding should be harder to get in coming years, so this is something we would like to work on. Education should be a prime concern."



"I've greatly benefited from my experience at UMR, and I hope that many other potential students can someday say the same."

-Larry Hendren

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.



THANK YOU

Retiring members of the alumni board of directors and committee chairs:

Richard R. Arnoldy '69, area director '03-04
Andrew L. Draker '04, SUB president '03-04
H. Pat Duvall '62, area director '96-04
K. Daniel Hinkle '73, director at-large '95-'02;
vice president '02-'04
J. Pete Legsdin '70, area director '01-04

Norbert F. Neumann '52, area director '98-04
Jorge A. Ochoa '85, director at-large '99-04
Martin Rust '03, graduate student member
'03-04
Jennifer R. Wang '76, area director '03-04

Student groups receive \$2,500 in funding

The MSM-UMR Alumni Association provides \$5,000 each year to help fund projects sponsored by recognized student organizations. Organizations sharing the \$2,500 during the fall 2004 semester include:

- **SAE Formula Car Team**, \$200 toward the car
- **Interfraternity Council**, \$400 to fund a barbecue and carnival for charity (Linking Hearts adoption fair)
- **Chinese Students and Scholars Association**, \$100 for the Chinese spring festival
- **National Society of Black Engineers**, \$100 for a student to attend the fall regional conference
- **Phi Sigma Rho**, \$100 for students participating in UMR Service Day by working in the community
- **Campus Ministers' Association**, \$500 for a freshmen recreation night
- **UMR/RTI Solar House**, \$200 to help develop a brochure
- **Interfraternity Council**, Panhellenic and Residence Hall Association (RHA), \$300 for a Vegas night for students during New Student Orientation Week
- **Panhellenic**, \$200 toward formal recruitment
- **National Residence Hall Honorary**, \$100 for a student to attend leadership training
- **India Association**, \$100 for Garbha Night
- **Human-Powered Vehicle Team**, \$200 toward the vehicle

Association approves endowments to benefit students

The Executive Committee of the MSM-UMR Alumni Association approved the following endowments during its Aug. 13 meeting:

- **Robert Gill Montgomery Scholarship**, created with a gift of \$5,000 from his estate, to benefit mining engineering students.
- **David C. Grimm Scholarship Fund**, created with a gift of \$100,000, to benefit Pi Kappa Alpha Fraternity members.
- **National Residence Hall Honorary Outstanding Hall Leader Scholarship**, to be funded by NRHH members, to benefit an outstanding leader and resident of a residence hall.

The committee also approved the following amendment to an endowment:

- Combined the Perrin R. Roller Geological Engineering Scholarship into the existing **Perrin R. Roller School of Mines and Metallurgy Scholarship Fund**, to benefit a student majoring in mining, petroleum or geological engineering.

Ochs and Ramsay reappointed to Alumni Alliance

Calvin M. Ochs, ME'49, and **Darlene M. Ramsay**, MetE'84, were recently reappointed to additional terms of service on the University of Missouri Alumni Alliance. Their new terms will expire in 2008.

The Alumni Alliance is composed of alumni representatives from the four campuses of the UM System plus Outreach & Extension. The alliance's mission is to support the interests of the entire university. Alliance members meet twice a year, primarily to arrange and recruit volunteers for Legislative Recognition Day, an annual visit with Missouri House and Senate members held in Jefferson City during the legislative session.



You're invited to a ST. PAT'S pre-parade party

8:30 to 10:30 a.m.

Saturday, March 19, 2005

Alumni Lounge

Castleman Hall

10th and Main streets

*Complimentary coffee, juice
and pastries will be served.*

Green beer, Mimosas and

Bloody Marys will be

available at a cash bar.





New Alumni Association Officers

PRESIDENT:

Larry L. Hendren, MinE'73, of Columbia, Mo., president and CEO, Engineering Surveys and Services

PRESIDENT-ELECT:

Darlene S. Ramsay, MetE'84, of Rolla, research associate, UMR

VICE PRESIDENT:

Ernest K. Banks, ChE'81, of St. Louis, continuous improvement leader, Mallinckrodt/Tyco Healthcare

VICE PRESIDENT:

John F. Eash, AE'79, of St. Charles, Mo., senior manager, The Boeing Co.

VICE PRESIDENT:

Kenneth G. Riley, ChE'56, of San Marino, Calif., petroleum consultant; retired, vice president, Arco Products Co.

VICE PRESIDENT:

Perrin R. Roller, GeoE'80, of Spring, Texas, drilling manager, Deepwater Operations, Devon Energy Corp.

VICE PRESIDENT:

Susan H. Rothschild, CSci'74, of St. Louis, Sandy Rothschild & Associates, St. Louis.

VICE PRESIDENT:

Jon Vaninger, EE'63, of Manchester, Mo., president, Van Pak Corp.

SECRETARY:

Susan E. Watson, CSci'83, of Danbury, Conn., vice president, application management services, IGS, IBM

TREASURER:

Jerry R. Bayless, CE'59, MS CE'62, of Rolla, associate dean of engineering and professor of civil engineering, UMR

(Continued on page 41)

Pi Kappa Alpha Grains and Grapes BBQ 2004



Those attending the event included: First row: Bob Carr '57, Art Kruger '58, Al Wentz '57, Marv Ringer '57, Jim Urban '58 and Dunc Block '57. Second row: Al Johnner '58, Don Myers '61, Dick Bauer '51, Chuck Poe '54 and Brandon Wand '00. Third row: Bob Brockhaus '62, Jim Bess '56, Bob Kallemeier '62 and John Wolf '64.

The third annual Pi Kappa Alpha Grains and Grapes BBQ was held on Aug. 21, 2004, at the home of Al and Joan Wentz in Edwardsville, Ill. Alumni and spouses enjoyed smoked beef brisket and a wide variety of other delicious foods, including a beautifully decorated cake. Everyone enjoyed renewing friendships and sharing Rolla experiences.

The fourth annual Grains and Grapes BBQ is scheduled for Sept. 10, 2005. For additional information contact Al Wentz at (618) 692-1231 or email jdomigan@aol.com.

Alumni rally during fall career fair

Nearly 125 alumni returned to campus for the Fall Career Fair on Sept. 23.

Those attending included Jill Akers '99; Gary Amsinger '80; Brooke Antolak '03; Craig Barnes '78; Dave Billingsley '86; Steve Bruer '91, '94; Stacey Buenemann '97; Pat Byrne '73; Mike Carlson '99; Matthew Clark '99; Matt Coco '66; David Cortivo '97; Mike Davis; Kim Davis '00; James Dietz '03; Matthew Doell '85; Andy Doerflinger '00; Derek Dressler '02; Derek Dunlap '03; Ron Dutton '74; Dave Edgar '93; Cecilia Elmore '86; Nathan England '02; Lloyd Flowers '88; Steve Frank '98; J.P. Fransaw '04; Eric Gamble '01; Brett Goodman '93; Gary Graham '96; Jeremy Hall '01; Sarah Hall '03; Ed Hammann '02; Tim Hand '01; Leigh Ann Hauser '03; Jim Hauser '74; Hillary Haworth '02; Rob Hayden '02; Mike Hermesmeyer '71; Tim Hogan '02; Josh Holland '04; Amy Huber '03; Marcus Huggans '96, '97, '98; Kevin Irving '94; Kyle Jackson '01; Jack Jakkidi '01, '03; Jason Jeffries '02, '04; Brian Jones '01; Chip Keim '01; Steve Kerr '03; Matt Kisler '01; Mike Knittel '02; Dan Koenigsfeld '02, '03; Ken Kozlowski '83; Mark Krigbraum '01; Brett Kunce '01; Joe Kuss '00; John Laschober '81, '86; Greg Lorenze '03;

Gail Lueck '02, '03; Don Luna '02; Susan MacDonaugh; Johnathan Marburger '03; Jack Marshal; Erik Martel '99; Brent Massey '95; Susan McCart '03; Matthew McLeane '99; Scott Mehaffy '97; Dave Meyer '81; Kevin Miller '77; Don Modde '02; Jeff Morris '01; Danne Murphy '93; Tiffany Myers '02; James Nimmo '04; Tara Nolley '03; Mike O'Brien '82; Garima Pathak '04; Vern Peters '75; Kevin Petrones '03; Mike Phelan '73; Chris Philipp '82; Gary Post '03; Dale Powers '78; Sarah Pulido '00; Jeff Putnam '92; Steve Raper '85, '87, '89; Matthew Raterman '01; Gary Rauls '70; Kelly Reiter '03; Matt Rest '89; Jim Riggs '96; Curtis Robinson '01, '03; Ron Rogge '76; Matthew Ryan; Stephanie Salter '01; Kris Scholl '98; Melissa Schwaller '02; Sue Simmons '84; Josh Smith '99; Roger Smith '02; Dan St. Clair '75; Libby Stephenson '02; John Stickley '98; Anna Stoverink '03; Nicholas Streeter '01, '03; Scott Strickland '02; Karen Strothkamp '02; Colleen Stucker '00; Steven Szabo; Larry Taber '00, '01; Gary Tomlinson '98; Shae Tribout '02; Vasu Trisal '02; Joe Turner '85; Mark Viox '80; Stefanie Voss '02; Steve Wendland '86; Robin Wheeler '95; David Wolf '88; Curt Woolsey '96 and Mark Zeiew '01.

Faculty/staff picnic brings old-fashioned fun

The annual UMR Get Acquainted Picnic was held Sept. 18 at the home of Vice Provost Wayne '82, '87 and Jaci Huebner. The picnic, which is co-sponsored by the alumni association and the new faculty programs of the provost's office, helps new faculty and staff members learn about the campus and the Rolla community.

Those attending included Eliot and Estella Atekwana with children Kyra, Kyle and Kyne; Lindsay Bagnall '76; Shon Blackwell; Martin Bohner; Will and Rebekah Canu; Keith Corzine; Mariesa Crow; Bill and Sharon Daughton; David and Rose Drain; Jim Drewniak with David and Jacob; Bill and Connie Eggert with Will; Shannon Fogg; Samuel Frimpong with David and Samuel Jr.; Jay and Mia Goff; Steven '79 and Maria Grant with Jessica and Tyler; David Henthorn; Wayne '82, '87 and Jaci Huebner; Kimberly and Raymond Kinder with Ryan and Aaron; Keesoo and Ming Leu; Stephanie Martensen; Alex Maurer; Theresa McCarthy-Brow; Angela McLane; Robert and Dee Montgomery; Sarah Moore; Gene and DeLaney Morton with Jacob; Paul Nam; Kathy Northcut with Adrienne; Linda Nystrom;



Above: Vice Provost Wayne Huebner welcomed guests during the annual UMR Get Acquainted Picnic, making sure everyone felt at home throughout the day's activities.

Right: Kids of all ages enjoyed the Huebner tree house during the picnic.



Judy Raper with Maison and Audrey; Kittie Robertson; D.J. and Kathy Roshan with Nicholas, Audrey, Donny and Amanda; Mike Sheppard; Usman and Lubna Shoaib with Abdullah, Saif and Maria; Mayur Thakur; Chancellor Gary Thomas; Ben and Cathy Tipton; Martha Tummons; Courtney Wallace; Yanwen Wang; Marianne Ward; Klaus Woelk with Madonna, Marlena, Christina and Johannes, and Bin Xu.

DYE SCHOLARSHIP RECIPIENTS



Lindsay Bagnall, executive vice president of the MSM-UMR Alumni Association, presented the Robert F. Dye mining engineering scholarships this fall to John Combs, Adam Kresler, Antoinette (Tony) Donovan, Joshua Hoffman and Evan Mudd. She is pictured above with the students. The endowment was established in 1960 through a gift of Mrs. Vachel McNutt ('10) in memory of her second husband, Robert E. Dye, '12, for scholarships in the mining engineering department.

New Officers

...continued

AT-LARGE DIRECTORS:

Daniel L. Bohachick, EE'99, of Tulsa, Okla., project engineer, WilTel Communications; **Janet Wickey-Spence**, GGph '85, of Webster Groves, Mo., senior project leader, Edward Jones Co.

AREA 1 DIRECTOR:

Paul G. Baldetti, EE'81, of Skaneateles, N.Y., president, Garlock Sealing Technologies

AREA 2 DIRECTOR:

Robert Scanlon, MetE'73, of Brookeville, Md., acting director, north central area; Aviation Operations, Transportation Security Agency

AREA 9 DIRECTOR:

David M. Tepen, EE'90, of South Bend, Ind., electrical engineer, Diz Corp.

AREAS 10-18 DIRECTOR:

Daniel E. Frisbee, CE'72, of Ballwin, Mo., senior vice president/divisional manager, Walton Construction Co. Inc.

AREAS 10-18 DIRECTOR:

Andrew M. Singleton, ME'00, of Rolla, equipment engineer, Brewer Science

AREAS 10-18 DIRECTOR:

Kelley Thomas, CE'91, of Kirkwood, Mo., former operations and project engineer, Illinois-American Water Co.

AREA 22 DIRECTOR:

David Begley, EE'73, of Longmont, Colo., vice president, strategic management and corporate relations, Ball Corp.

AREA 24 DIRECTOR:

Peter Malsch, CE'62, of Enumclaw, Wash., project manager, retired, Weyerhaeuser Co.

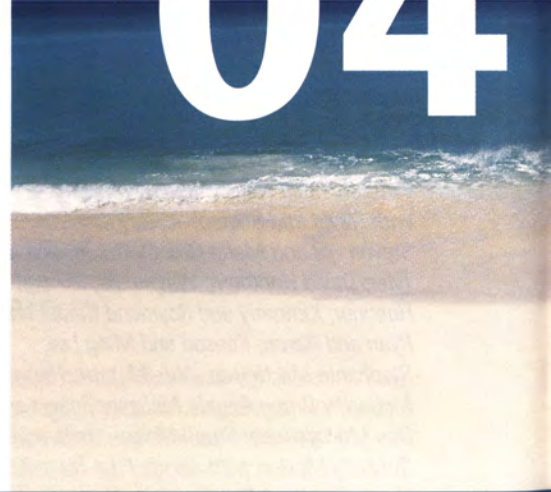
GRADUATE

STUDENT DIRECTOR:

Nathan Mundis, AE'04, of Rolla, graduate student director

P a p a d i s

Scenes from homecoming '04



reunion classes

1939



Left to right: Edgar Miller, John Livingston, William Oberbeck.

1953 and before



First row (left to right): Odis McCallister, Shirley McCallister, Fred Kisslinger, Ralph Wolfram, Aaron Greenberg. Second row (left to right): Mary A. Rothband, Margaret K. Miller, Edgar Miller, Ginny Wolfram, Norman Tucker, Armin Tucker. Third row (left to right): Paul B. Rothband, Richard A. Thurston, Chris J. Thurston, Warren Helberg, John Brodhacker, Mary Brodhacker, Norman Fanning, William Oberbeck, Donald Spencer. Fourth row (left to right): Jack Fleischli, Arthur Schmidt, John Mulligan, Roger Schoeppel, Jody Schoeppel, Robert Bay, Peggy Bay, Caroline Elgin, Robert Elgin, Mike Tarr. Fifth row (left to right): John Livingston, Lawrence Spanier, Elaine Spanier, Bob Nebins, Hanna Nebins, Joann Holcomb, Woody Holcomb.

e I s I a n d

oming



1954



First row (left to right): Nancy Gerard, Betty Walsh, Suzanne Hollocher, Bert Smith, Ludi O'Brien. Second row (left to right): Jim Gerard, Robert Walsh Jr., Ralph L. Hollocher, Iva Bolker, Vernon Bolker, Robert O'Brien. Third row (left to right): Joseph F. Krispin, Susanne Krispin, Jeanette Koelling, Dr. Harold Koelling, Judith Poe, Charles C. Poe. Fourth row (left to right): Martha Patterson, Bob Patterson.

1959



First row (left to right): Joseph Reichert, Marilyn Wells, Newton Wells, Ann Allison. Second row (left to right): Mary Reichert, Joel Scharf, Sammy Bolon, Lu Bolon, Perry Allison.

1964



First row (left to right): Ron Henson, Mary Jean Henson, Robert Vogelpohl. Second row (left to right): Milt Murry, Claudette Parkinson, Larry Parkinson.

1969



Left to right: Richard Berning, Carolyn Berning, Tom Voss, Dorcas Colgrove, George Colgrove.

P a r a d i s



Scenes from homecoming '04

reunion classes

1974



First row (left to right): Kerry Quinlisk, Susan Rothschild, Jody Falis. Second row (left to right): James Entwistle, Rich Quinlisk, Dennis Leitnerman, Allen Fails.

1979 — Silver Anniversary



First row (left to right): Allen Faber, John Eash, Rhonda Reed Galaske, Barbara Busby, Beverly Flori. Second row (left to right): Theresa Pulley, Michael Noble, Kate Snyder, Kay Thornton, Jana Zigrye, Fran Erickson, Becky Riess, Ralph Flori. Third row (left to right): Sharon Ackerson, Timothy Snyder, Gary Millsap, Patricia Lizotte, Steven L. Grant, Kelvin Erickson, Rob Riess. Fourth row (left to right): Michael Ackerson, Charles Bagnell, Karen Bagnell, David Dopp, Jackie Gilliam, Matthew Baebler, Dennis Leitnerman, James Towery, Brad Towery. Fifth row (left to right): Dan Kallenberger, Tom Wetteroth, Don Birchler, Susan West, Michael L. West, Michael O'Daniell, Jan O'Daniell, Mark Ziobro, Steve Zigrye.

1984



First row (left to right): Henry Behlmann, Kim Behlmann, Lori Scandura, Michael Campbell, Alexa Mayse. Second row (left to right): Phil Scandura, Gregory McIntosh, Mark Kleypas. Third row (left to right): Pam Magruder, R. Tad Magruder, Ronnie Campbell, Scottie Kleypas.



oming

1989



Left to right:
Rick Gilley,
John Newcomer.

1994



First row (left to right):
Rachel Goldsmith, David Goldsmith.
Second row (left to right):
Mark Goldsmith, Mellanie Goldsmith.

2004

Left to right:
Karla Callahan,
Firat Kahraman,
Karla Niehaus.



awardees

ALUMNI ACHIEVEMENT



JACK FLEISCHLI



JOHN LAULETTA



ERIC POTTS



EDWARD SICKAFUS

ROBERT V. WOLF ALUMNI SERVICE



LAWRENCE SPANIER



DENNIS
CLODFELTER



D. RON FANNIN



ANTONIO NANNI

ALUMNI MERIT

DISTINGUISHED YOUNG ALUMNUS



EUGENE BAE



MARK BIRK



MICHAEL EMANUEL



SAMUEL CONZONE

FRANK MACKAMAN VOLUNTEER SERVICE



JOSEPH F.
REICHERT
Kansas City
Section



PRISCILLA
WINNER
Secretary
Metallurgical
Engineering



JOHN
MCMANUS
History &
Political
Science

OUTSTANDING STAFF MEMBER

OUTSTANDING STUDENT ADVISOR



A. CURTIS
ELMORE
School of
Materials, Energy
& Earth Resources



STEPHANIE
FITCH
School of
Management



RICHARD
MILLER
College of
Arts & Sciences



JOHN
MYERS
School of
Engineering



OLIVER
SITTON
School of
Engineering



AIR CAPITAL

Air Capital alumni wrangle up a good time

July 24 – Alumni and friends from the Wichita area hosted a tailgate party at Lawrence-Dumont Stadium, prior to watching the Wichita Wranglers take on the El Paso Diablos. Despite the small crowd at this event, everyone enjoyed watching the Wranglers win. Fireworks following the game helped attendees celebrate the home team victory.

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

Those attending included Sean Daly '96; Ken '75 and Carol Drake; John Goethe '92 and guest; David '95 and Melissa '96 Herberger.



Ark-La-Tex alumni gather to cheer on their favorite horses at Louisiana Downs.

ARK-LA-TEX

Miners meet at the races

July 24 – Ark-La-Tex alumni met for their annual business meeting at Louisiana Downs in Shreveport, La. Alumni and their guests enjoyed the day from a suite on the exclusive Penthouse level, which offered attendees a lavish all-you-can-eat gourmet buffet. Friends, old and new, bet on their favorite horse, swapped stories about UMR and talked about upcoming events for the section. This annual Ark-La-Tex event is not to be missed!

Thanks go to Connie Bauers for organizing this annual event.

Those attending included Margaret Audbrock; Connie '02 and Lincoln Bauers; Dennis and Peggy Boyken; Phil Browning '48; Ken and Mary Bulin; Elmond Claridge '39; Cooper Cochran; Scotty '01 and Theresa Gerbes; Rande '73 and Judy '74 Grotefendt; Nathaniel '03 and Melissa Huckabay; Bob and Marte Kennedy; Michael and Kay Morriss; Loretta Moscar; Eddie Moss '00; Louise Patton; Dustin '02 and Morgan Penn; Jerry Poland '82; Mark Sirmecsek and Erin Swaeregen '02.

CENTRAL OZARK

Alumni and friends feast, fellowship

Aug. 28 – Scheduling issues at Lions Club Park in Rolla led to a new venue for the shrimp feed at St. James Park. MSM-UMR alumni, families and friends did not seem at all bothered to make the short trip down I-44 for boiled shrimp and filets.

Keith Stanek extended a warm welcome to all guests, and introduced eight student leaders from campus. This was the first time students have attended free, thanks to donations from several community members.

Thanks go to Jerry Bayless for continued dedication to the Rolla Chapter of the Missouri Society of Professional Engineers and the annual shrimp feed. A special thanks to Jack Mentink for cooking the shrimp and Steve Hargis for cooking the filets.

Those attending included Ed Albee '70; Sue Aurelis; Kent '76 and Lindsay '76 Bagnall with Hannah and Lydia; Dan Bailey '03; Jerry '59 and Shirley Bayless; Jenny Bayless '89; Don '93 and Nancy '96 Brackhahn; Joel and Hope Burken; William and Sharon Daughton; Dave '68 and Sue Dearth; Dick Elgin '74; Lauren Etheridge; Ruth Faucett; Joe Fritschen; Jeremy and Aubra George; Lawrence George '89; Mildred Gevecker; Steve Hargis '85; Paul '95 and Julie '99 Hirtz; Lauren Huchingson; Scott and Chris Huchingson; Kelle Iniguez; Pete and B.J. Kinyon; Bob Lemberger '59; Adam Lewis; Victor '73 and Virginia Lomax; Braden '00 and Shannon '02 Lusk; Dave and Lanell Luther; Pam Manley '90; Bonnie Mathis '91; Todd and Stephanie Martensen with Clark; Jack Mentink '83; Tom '73 and Janice Mills; Rolla Mayor Joe and Molly Morgan; Mike Meyers with Diana; Robert Mitchell; Don Myers '61;

Bryan '97 and Leisa Parker with Renee Bradley; Gary '60 and Barbara '61 Patterson; John '47 and Sharyn Powell; Chuck Remington '49; Julia Rosemann; Mabel Rueff '40; Myrna Rueff; Lee and Priscilla Saperstein; Marion '58 and Marian Skouby; Craig Stanek; Keith and Sandra Stanek; Rick Stephenson; Bill Stoltz '68; Jeff Stoltz '92; Bob Stoltz; Chancellor Gary Thomas; Maurice and Carmen '84 Tuttle; Courtney Wallace; Chuck Williams and Dottye Wolf with Yvonne Meloy.



Chicago alumni and friends meet at the home of Ben and Julia Goebel to welcome freshmen to the UMR Miner family.

CHICAGO

Windy City bids farewell to new UMR students

July 17 – Members of the Chicago Section met at Ben and Julia Goebel's house on July 17 for their annual freshman send-off picnic. Taking advantage of the perfect summer day, alumni socialized and enjoyed some terrific barbecue while imparting words of wisdom to three new UMR students from the area – Tim Romano, Steven Rodgers and Matt Loula. Sarah Salmons, assistant director of admissions, helped answer questions from both new students and alumni. Attendees had a great afternoon and were looking forward to the annual White Sox patio party on Sept. 18.

Many thanks go to Parris Ng for organizing this event and to Ben and Julia Goebel for opening their home.

Those attending included Robert '67 and Rose Chi; Amanda Duchek '00; Larry Duchek '70; Ben '00 and Julia Goebel; Matt, Bob and Brenda Loula; Dennis '58 and Rhea Mason; Fred Niemeier '95; Parris Ng '00 with Jenny Che; Steven, Liz and Randy Rodgers; Tim and



Peggy Romano; Sarah Salmons and John Yannuzzi '01.

HOUSTON

Houston alumni keep Miner spirit strong

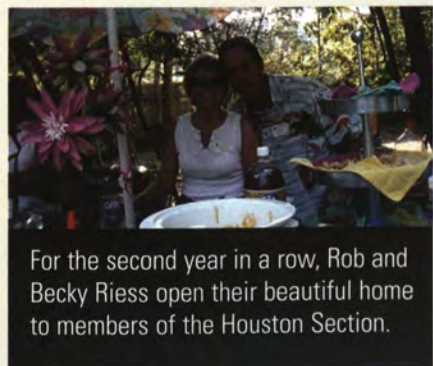
July 31 – Thanks to the continued hospitality of Rob and Becky Riess, new UMR students and their families joined alumni for an afternoon of good food, old Rolla stories and fun family activities. With the grill, the pool and the washers game, there was truly something for everyone.

Following a brief welcome from new Houston Section President Larry Ragsdale, area students each received a small UMR gift from Jody Davis of UMR admissions. Nicole Talbot, section scholarship chair, introduced the Houston Section scholarship recipients.

Despite the slight humidity in the Houston area, the party continued well into the night.

Many thanks go to Lori Stapp Crocker for organizing this event, and to the Riess family for opening their beautiful home to so many Miners.

Those attending included Paul Balaster '02; Jason Brumley; Liz Brumley; David, Nancy and Mark Chamberlain; Jesse and Judy Collins; Leigh '92 and Doug '91 Cordier; Lori Stapp Crocker '88; Barrett Counts; Jody Davis; Robbie '02 and Margie '02 Gordon; Jessica Guse; Tom '75, Will and Nancy Holley; Rob '00 and Erin Koch; Michael Lyman; Tom Lyman; Stephanie Martensen; Jim '67 and Carolyn Medlin; Jay, John, Joan and Teresa Murphy; Russ Pfeifle '74; Lane '98 and Lorna '98 Puls; Larry '98, Elizabeth '00 and Salinda Ragsdale; Rob '79 and Becky Riess; Rob Riess Jr. '04; Gretchen '99 and Matt '97 Riggs; Rachel



For the second year in a row, Rob and Becky Riess open their beautiful home to members of the Houston Section.



All new UMR students who attended the picnic were presented with UMR gifts from Jody Davis, UMR admissions representative.

Durst-Strecker '99, Jason Strecker; Nicole '77 and Mavis Talbot; Rob Tyre '96; Clark Volker and David '80, Cecilia and Kaye Wibbenmeyer.

INDIANAPOLIS

Indy alumni celebrate dog days of summer

Aug. 22 – At their second annual end-of-the-summer picnic, Indianapolis alumni enjoyed a vast array of activities at Eagle Creek Park, along with picnic food fit for any Rolla Miner. Congratulations go out to historian for the Indianapolis Section.

Many thanks go to Dawn Stufft for organizing and hosting this event.

Those attending included John '85, Annette and Adam Brannon; Tim Brown '02; Karl Morrison '82 and his daughter, Gabbie; Ken Pendleton '60; Les '66 and Linda Stewart; Joshua '00 and Dawn '99 Stufft, and Emily Wehmeyer '97.

KANSAS CITY

Kansas City Miners welcomed by alumni

July 18 – More than 60 alumni, family and friends came together at Fleming Park to welcome new UMR students from the Kansas City area to the MSM-UMR family. Attendees enjoyed a traditional feast of hamburgers, hotdogs, homemade dishes and brownies. The alumni offered students insight about what to expect at UMR and the world beyond, with

advice on how to succeed. The freshmen introduced themselves, shared their major and the high school they graduated from.

Special thanks go to Kenneth Bandelier, Jim VanAcker and Ken Drummond for coordination; Joe Reichert for master-of-ceremony duties; Leigh Ann Hauser and Katie Drummond for set-up and preparations; grill-meisters Cliff Tanquary and Craig Borgmeyer; and all the rest who supplied side dishes and desserts. A special thank you also goes to Courtney Wallace for representing UMR and giving students, family and alumni friendly welcomes.



A Kansas City Section party is not successful without grill-meisters and party planners.

Those attending included William Barrett '99, '01; Laura Bender; Debbie Black-Huffman '97; Craig Borgmeyer '88; Larry Brown and family; Eric Caldwell '03; Donny Cone '02; Justin Cox; Jennifer Denzer '02; Katie Drummond; Ken Drummond '86 and guest; Anthony Dvorak; Jerry Edison '61; Leigh Ann Hauser '03; Tom Huffman '97; Sarah Klein '03; Gerald Corsiglia '04 and guest; Lon, Marcia and Stewart Lane; Joseph Morrey and family; Tony Neff; Ted Nelson; Jaime Pierce; Joe Reichert '59; Bob Reynolds '70; David Skitek '67; Matt Stadler; Cliff Tanquary '57; Elizabeth '03, Jonathan and baby Nathaniel Trotter; Jim VanAcker '98; Laura Wagner '02; Robert Wagner '91; Courtney Wallace; Chris Westland, and Dan '90 and Jayne Wiltshire.

KC alumni enjoy evening at the ballgame

July 30 – Members of the Kansas City Section kept their annual baseball tradition alive by attending a Royals game. Even though attendance was lower than usual, the diehard fans had a great time at the ballpark. Who couldn't enjoy themselves during the

(Continued on page 48)



Royals' Dodge Buck Night, with hot dogs, peanuts and sodas for a dollar? Unfortunately, the Royals lost 7-6 to the Cleveland Indians. A post-game fireworks show brightened the mood.

Thanks go to Ken Drummond for organizing this event.

Those attending included Nathan Kaiser '96; Tim Klein '00 and guest; Sarah Maxon '97 and Jim Van Acker '98.

LINCOLNLAND

Alumni travel to St. Louis for Cardinal baseball

July 24 – Fifteen alumni and guests piled into their cars and headed to St. Louis for a day of fun and fellowship. The group started with an Anheuser-Busch Brewery tour, headed to Arcelia's Mexicana Restaurant for lunch and finished at Busch Stadium to watch the Cardinals battle the Giants. When the group arrived at the stadium, they were surprised to learn free appetizers, nachos, brats and hot dogs were waiting for them at their box seats. Someone will soon receive a huge thank you from the Lincolnland Section for the wonderful Midwest hospitality.

Special thanks go to Amanda Withers for planning and organizing this day out in the big city.

Those attending included Jason '98 and Jennifer Doyle; Rich '71 and Cathy Eimer; Jay Jordan '98 and Elizabeth Skiles-Jordan; Jeff Mueller '02 and friend, Jennifer; Jerry '70 and Mary Parsons; Joe Vespa; Brad '01 and Amanda '02 Winters, and Amanda '99 and Andrew Withers.

NORTHERN ALABAMA

Alabama alumni socialize with Huntsville Stars

Aug. 12 – Alabama alumni have few opportunities to share their Rolla stories and memories, so they decided to make this summer event a family activity and catch some baseball action at the same time.



MSM-UMR alumni and their families celebrated their Miner heritage at the Huntsville Stars baseball game Aug. 12.

The day started with a picnic dinner on the party deck in left field of Joe Davis Stadium. After eating their fill of hamburgers and hot dogs with all the fixings, MSM-UMR alumni and their families cheered the Huntsville Stars to a 1-0 victory against the Montgomery Biscuits.

Special thanks go to Laura Tomaja for organizing this event.

Those attending included Brad Arnold '04; Brad '97 and Kristi Butler with their twin future Miners; Dick Campbell '62; James Carter '66; Allen Crider '80; Trung Dam '03; Kirk '82 and Judy Foeller; Roger '62 and Sharon Hoffman; Ernest Jones '82; Jim '75 and Dorothy Keebler; Dan Kruvand '69; Bob Miller '04; Ken Morrison '04; Jeff Obermark '91; Jonathan '01 and Megan '02 Pardeck; Stephan '03 and Heather Posch; Rob Tayloe '98; Dan Thill '03; Laura Tomaja '00, '02; Jesse Wamsley; Jerry '57 and Nancy Webb; J.T. Zakrzewski '98; Jason Zhang '04, and James '67 and Donna Zwiener.

PACIFIC NORTHWEST

MSM-UMR alumni go out to the ballgame

July 21 – Pacific Northwest alumni had a great time at the Seattle Mariners game against the Anaheim Angels. It was a first trip to Safeco Field for many, who found places to order great food and stadium seats with good views. Attendees had a great view of downtown Seattle and Puget Sound to the west, with a glorious sunset during the game. Scores were tied in the eighth inning, but the Mariners persevered and won in the 10th with a walk-off home run.

Many thanks go to Stephen Wright for organizing and hosting this event.

Those attending included Jill and Ben Biegen; Brian '01 and Erin '01 Chamberlain; Ed '87, Margie and Chloe Corich; Pat '62, Kay and Kristen Duvall; Merle '70 and Jayne Hill; Art and Anne Loring; Pete Malsch '62; Bob and Kris '89 Ridenour; Mark '86, Jan, Katie and Garrett Tanner; Eric '77, Robin '78, Rebecca and Laven Tilman; Mike Warfel '75 with son; Andy Gerde, and Steve '68, '70 and Susan Wright.



Pacific Northwest Miners cheering power helped the Seattle Mariners win during the July 21 game.

Alumni fly into family potluck picnic

Aug. 21 – The Pacific Northwest Section held its annual family potluck picnic at the home of Stephen and Susan Wright. Before the picnic, some members of the group took a private tour of the underground Puget Sound Energy Powerhouse No.1. This plant, located on the south side of the Snoqualmie River, became operational in 1898.

Following the plant tour, Stephen took some of the attendees on an airplane flight around the Snoqualmie valley for an outstanding view of the 268-foot Snoqualmie Falls. After the ride, the group enjoyed a potluck meal and played yard games with their families.

A short business meeting concluded the evening. Pat Duvall described plans for a spring or summer event at the Boeing Museum of Flight and Pete Malsch gave an update on the section scholarship process. The following Pacific Northwest Section officers were elected: president - Mike Warfel, vice president - Pat Duvall, and secretary/treasurer - Stephen Wright.



Members of the Pacific Northwest Section raced balloon cars to give away their door prizes.

Special thanks go to Stephen and Susan Wright for organizing and hosting this event at their home.

Those attending included Ed '87, Margie and Chloe Corich; Pat '62 and Kay Duvall; Robert '67 and Karen Gray; Pete Malsch '62 with Jeanne Kightlinger; Mike Warfel '75; and Stephen '68, '70 and Susan Wright.

PHOENIX

Bank One Ballpark welcomes alumni

Aug. 7 – Phoenix Section alumni and guests attended an Arizona Diamondbacks baseball game in Bank One Ballpark after a gathering at Alice Cooperstown Restaurant for some fellowship, appetizers and a little libation to get in the baseball mood. Following a short walk to the stadium, they settled into seats directly behind home plate in the upper deck and watched the Diamondbacks battle the Atlanta Braves. They put up a struggle, but eventually lost to the Braves, 6-2. The section had a great time sharing stories about UMR and planning fall activities like a turkey fry and a hockey game.

Thanks go to Gene Rand for coordinating and hosting this event.

Those attending included David Akers '82; Karl '62 and Carol Brown; Bob Darr '73; Robert '68, '69 and Alisa Feugate; Francis '01 and Jessica '01 Humble; Gene '62 and Judy Rand; Deepack Rasquinha '03; Tricia Rudloff '97 with guest Aaron Fain; Bob '62 and Renee Tooke, and Kerri Vencato '00.

PORTLAND

Portland Section chartered

Aug. 13 – The MSM-UMR Alumni Association Executive Committee accepted a charter for the Portland Section. This brings the total number of alumni sections in the United States to 38. Special thanks go to Bruce Miller for bringing Portland area alumni together and making the Portland Section a reality. Section officers are: president – Bruce Miller, vice president – Duane Bequette, and secretary/treasurer – Bill Walker.

The section held its first event aboard the *Portland Spirit* on April 28. Future section activities include a dinner with UMR Vice Provost Wayne Huebner, a St. Pat's party in March 2005, an event at the Boeing Museum of Flight in June 2005 with the Pacific Northwest Section and a summer 2005 family picnic.

ST. LOUIS

New Miners celebrate Grizzlies victory

July 25 – Members of the St. Louis Section started a new tradition – the freshman send-off picnic – with a Gateway Grizzlies game. The picnic is sure to become the signature event for the 10,000 alumni in the St. Louis area. This year, 44 alumni, students, family and friends attended a Grizzlies game against the Windy City Thunderbolts. The Grizzlies emerged with a 10-3 victory. Everyone enjoyed a meal of hamburgers and hot dogs, plus traditional baseball snacks like peanuts and Cracker Jack. Students new to the UMR family were recognized and each received a welcome gift, compliments of the admissions department. Everyone seemed to have a great time, despite the below-average temperature at the ballpark.

Special thanks go to Sam and Sylvia Strackeljahn for organizing and hosting this event. Members of the St. Louis Section look forward to this annual send-off game.



Despite the lower-than-average temperature, St. Louis alumni and friends came out strong to welcome new UMR students.



Thanks to the St. Louis Section send-off picnic, these new UMR students are getting to know their classmates.

Those attending included Debbie, Jerry, Kendra and Robbie Belleville; C. Jerel Bernasek and family; James and Maddie Best; Andy '89, Tyler and Alexa Bryan; Bill '73, Barb, Katie, Joe and Emily Buchmeier; Jerry '63 and Barbara Church; Terry Croxford '94 and daughter; Gary '64 and Mark Dyhouse; Charles Hughes; Chuck Hughes Jr. '83; Gail Lueck '02, '03; Ralph Lueck '68; Alicia Miller; Milton Murry '64 and guest; Sharon Panian; Christina Sfredo '94; Theresa Stockman; Sam '03 and Sylvia '03 Strackeljahn; Laura Tiernon; Ben and Cathy Tipton; Marianne and Steve Ward; Kent '60, Joan and Rick Weisenstein; Jon Wies '03; Sarah '00 and Dan Wiszkon and Andrew Vollmer.

WE WANT YOUR NEWS

Submit your Section News by March 2005 to alumni@umr.edu for inclusion in the summer 2005 issue.



19 30s

1934

Richard J. Dobson, MinE: "I've been married 65 years to the same gorgeous woman. At 92 years old, I've been more or less retired for 10 years, but still participating in a small way in oil and gas drilling. I'm too lame to do much traveling. Glad we saw most of the world while we could." • **Lester E. Poese**, ChE: "My wife, Violet, and I live in the Shannondale Retirement Center in Knoxville, Tenn."

1936

Herman J. Pfeifer, MetE: "I turned 91 in July. Still in good health and enjoying life. I play golf once or twice a week. Helen is suffering from arthritis, but bearing up. Regards to all."

19 40s

1940

John R. "Bob" Klug, MinE, and his wife, Connie, visited UMR May 15, 2004, to see their son, **John Klug Jr.**, ME'66, receive an honorary degree at commencement.

1941

Andreas A. Andreae, ME: "I'm healthy and enjoying retirement in Florida. I am active in the Rotary Club and I keep busy golfing and traveling. I turned 86 on Aug. 29, and plan to attend the 2006 class reunion. My son, **Robert**, ME'69, has two granddaughters and lives in Fairfax, Va." • **James W. Jensen**, Phys: "Velma and I are still participating in the Rotary Club, PEO and church activities. We also enjoy the antics of five great-grandchildren who live nearby."

1942

Harold A. Krueger, MinE: "Looking forward to Homecoming and seeing my 1942 classmates."

1943

Kenneth W. Vaughan, CE: "I attended the funeral of an old friend, **Frank Rehfeld**, MetE'43, in St. Louis in May." • **Clarence "John" Wright**, ME, and his wife, Pat, were married in 1996 and live six months of the year at 517 Boyd Road, Pleasant Hill, CA 94523-3210.

1944

Edmund J. Waltenspiel, CE: "These past 60 years have been fun. I'm looking forward to more of the same."

1947

William P. McKinnell, MetE: "Marilyn and I divide our time between our home in Littleton, Colo., and our winter home in Tucson, Ariz. Many retired Marathon Oil Co. co-workers live in both locations."

1949

Gordon L. Carpenter, ME, and his wife moved to 11619 Pointer Ridge Lane, Cypress, TX 77433.

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If you have questions or comments, please call (800) 392-4112 or (573) 341-4944.

19 50s

1952

William R. Campbell, NDD: "Still working as construction manager and engineer for the University of Nebraska-Omaha." • **Everett G. Stevens**, CerE: "Nancy and I have eight grandchildren and counting. We are enjoying an active retirement from my career as an aerospace materials engineer with Rockwell International and Boeing. I'm still working off and on for Boeing in Huntington Beach on space shuttle tile problems. My real job is golf and trying to get under 90 strokes."

1954

Jim Highfill, CE, celebrated 50 years of marriage to his wife, **Lois**, Psyc'86, on June 6, 2004. • **Vernon D. Volker**, PetE: "After being widowed for four and a half

homecoming '04 Paradise Island

years, I married Iva M. Brown on Feb. 21, 2004. We purchased a home together and now live at 700 John F. Kroutil Drive, Yukon, OK 73099-5331. We both enjoyed the Golden Alumni Reunion in June for the class of 1954.”

1960s

1961

Farouk El-Baz, MS GGph, PhD GGph'64, gave the commencement speech to more than 500 students at the American University in Cairo, Egypt, on June 17, 2004. El-Baz also received an honorary doctorate from the university.

1962

Michael M. McRae, EE: “I retired in October 2003 from Alcoa/Howmet, and am now consulting. I plan to move to northern Florida in 2005.”

1963

Glenn Niblock, ME: “Judy and I have relocated to Pensacola, Fla., to be near our children and grandchildren. We plan to build a new home near the Naval Air Station Pensacola on Blue Angel Lake. Judy continues to work as an executive assistant to the CEO and CTO of a multi-modal software technology company in San Diego, Calif. I closed my consulting firm in San Diego and will look for something to do for fun and profit after we finish the new house.”

1964

Theodore J. Garrett Jr., MetE: “I retired on July 1, 1998. I'm now enjoying the easy life of golfing, boating, fishing and grandchildren.”

1965

Donald Carter, ME: “I recently retired from the University of California's Lawrence Livermore National Laboratory after 37 years as a research and precision engineer. I still reside in Livermore and enjoy working part time as a consultant, maintaining a small vineyard and a woodworking shop.”

Jackling Jocks Reunion



Jackling Jocks reunite during Homecoming 2004

First row (left to right): Perry Allison, Marilyn Wells, Carlene Fry, Marilyn Fester, Hanna Nevins, Joann Holcomb. Second row (left to right): Sammy Bolon, Newton Wells, Chick Boren, Armin Tucker, Norman Tucker, Ann Edwards, Gene Edwards, Alden Williams, Ann Allison. Third row (left to right): Lu Bolon, Joel Scharf, Don Brackhahn, Nancy Brackhahn, Richard Thurston, Chris Thurston, Delbert Day, Roger Fester, Bob Nevins, Patricia Dorlac, Jerry Dorlac. Fourth row (left to right): Jim Gerard, William Hill, Penny Hill, Mike Hillmeyer, Jean Boyett, Richard Boyett, Celia Engelhardt, Woody Holcomb. Fifth row (left to right): Paul Singer, Janet Singer, Jody Schoeppel, Roger Schoeppel, John McCarthy, Donald McGovern, Bill Engelhardt.

1966

William T. Stockhausen, CE: “Jo and I are enjoying retirement in Southern Pines, N.C. There is a lot of great golfing.”

1967

Kenneth Bollinger, ME: “Congratulations to the winning Solar Car Team! You guys did great, and we want to see another win in 2005.”

1968

Darrel W. Pepper, ME, MS ME'70, PhD ME'74, is working in the office of U.S. Sen. Dianne Feinstein (D-Calif.). Pepper, who is serving as a congressional fellow of ASME, provides technical input and advises Feinstein on policy issues.

1969

Don Wojtkowski, ME, *left*, was named director of design and construction for SSM Health Care in St. Louis. Wojtkowski will collaborate with hospital administrators on new construction projects.



(Continued on page 52)

Gunther joins MobilePro's advisory board



On June 18, MobilePro Corp. announced the appointment of **Don Gunther**, CE'60, to MobilePro's advisory board.

Gunther is former vice chairman of Bechtel Group Inc. During his 38-year career with Bechtel, Gunther served as president of Bechtel's Europe, Africa, and Middle and Southwest Asia regions, and led such business groups as petroleum and chemicals, pipeline, and mining and metals.

Members of MobilePro's advisory board serve as external advisors to the management team and the company's board of directors.

Kirberg and Clarke promoted



Len Kirberg, CE'66, was appointed to the newly created position of chairman and chief executive officer at Horner & Shifrin Inc., where he has served as president since 1988. This fall,

Kirberg was presented with the Engineers' Club of St. Louis Achievement Award for distinguished service in engineering. This award is the club's highest individual honor.



William P. Clarke, CE'74, MS CE'79, who has served as executive vice president at Horner & Shifrin Inc. since 2001, will replace Kirberg as president. Clarke was recently named to the

2004 class of fellow members by the National Society of Professional Engineers. The fellow membership grade honors active NSPE members who have demonstrated exemplary service to the profession, the society and the community.



Changing of the guard

Mehmet N. Taner, MS CE'73, far left, is pleased to announce that **Alp Cakici**, pictured with Taner, of Mersin, Turkey, is now attending UMR. Taner works as partner and director of Toros Construction in Mersin, Turkey.

1970s

1970

Gene C. Dawson, AE: "Martha and I recently bought 10 acres of land near Weatherford, Texas, and will soon begin building our retirement home. Our youngest son, John, graduated from high school this year and will attend Texas A&M. Our oldest son, Gene, plans to graduate in February from Master Diesel Mechanic training. Jennifer graduated from Tarleton several years ago and lives in Austin. I am still enjoying work at Lockheed Martin in Fort



Worth, Texas." • **Earl A. Thompson**, left, MS PetE, received a 2004 Award of Merit from ASTM International. It is the highest award ASTM bestows for individual contributions to standards activities and is accompanied by the title of fellow.

1973

Nancy (Hayek) Obermiller, Engl, was named principal of Steelville R-3 Middle School in Steelville, Mo. • **Thomas "Tom" Richter**, CE: "I've been working for the Archdiocese of St. Louis for four years and recently became the director of building and real estate. My wife, Nancy, is a contract manager at Ross and Barrunzini Engineering. Our daughter, Lauren, is a sophomore at Mizzou." • **Richard Schultz**, CE: "I'm a registered architect and the CEO of Schultz Design LLC, a full-service design and construction management firm with offices in St. Louis, Atlanta and Louisville, Ky. The company was recently ranked in the top 100 fee-based CM firms in the United States by *Engineering News-Record* magazine."

1974

Randall B. Dunford, CSci: "I retired from Hallmark Cards in June after 30 years. I plan to volunteer in the community and do a lot more relaxing and traveling." • **Jeffrey L. Ivers**, CSci: "My wife of 31 years, Dee, passed away June 14 after a long illness." •



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Raymundo "Ray" Chico, MS GGph'59,
raychico@chicogroup.com, www.ChicoGroup.com

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sjeffries@everestkc.net

Gene C. Dawson, AE'70, gdawson@charter.net

Don Schricker, Phys'74, wzing@theriver.com

Jason Jeffries, CE'02, MS CE'04,
jjeffries@everestkc.net

Michael L. Terry, ME'74, mlterry@sk.uss.com

Artist at heart

Not every MSM-UMR graduate is featured in the *New York Times*. Then again, not every scientist graduates with honors only to later realize he is an artist at heart.

Photographer **Ralph Weiss**, GGph'53, was featured in the May 13 issue of the *New York Times* discussing his work as a published photographer and teacher.

"Although I studied geology at UMR, and went on to study geochemistry at Penn State for five years, I realized that while I loved the outdoors, geology wasn't my passion," Weiss says.

Photography was, however, and Weiss has used his artistic skills to capture scenes of significance throughout the world, focusing more on the visual aspects of nature than the scientific.

"I've taken many photographs abroad, but I also find inspiration closer to home," says Weiss, who lives in Manhattan. "One of my projects has been photographing a season of Manhattan's winter ice, most recently in New York City Park." Many of Weiss's other scenes from the New York area have appeared in such books as Time-Life's *Urban Wilds* and *The Art of Photography*.



Photographer
Ralph Weiss, GGph'53

Cooking up scholarships with Chef Al

Al Wentz, ChE'57, MS ChE'59, known to many in his Edwardsville, Ill., hometown as Chef Al, says his background in chemistry helps him create new recipes.

"A lot of things in the cooking process are chemical related," Wentz said in an *Edwardsville Intelligencer* article. Wentz recently published his first cookbook, *Chef Al's Gourmet Treasures*.

The cookbook, which contains recipes for everyone from a novice cook to an expert, is available for \$10 at Piece of Mind Books in Edwardsville. All proceeds from the book benefit the Dirty Dozen Scholarship Fund. The "dirty dozen" is a group of 15 friends and graduates from Edwardsville High School's class of 1953, who give back to the community through this scholarship fund.

Shriver named president of PPL Generation

Bryce Shriver, MetE'70, MS NucE'71, PhD MetE'73, was recently named president of PPL Generation LLC. He served as senior vice president and chief nuclear officer for PPL Generation since May 2002. Shriver came to PPL as general manager for the Susquehanna plant in 1999, and was named vice president for site operations in 2000.

Rowell decorated with Flying Cross Medal

Air Force **Maj. William J. Rowell**, AE'92, received the Distinguished Flying Cross Medal, in recognition of defensive maneuvers aboard a MH-53M helicopter during Operation Enduring Freedom in Afghanistan. Rowell's action saved the lives of his crew and the Special Operations troops on board.

Don Schricker, Phys: "Retirement seems to be involved with 'non-relativistic' inertial considerations. My get-up-and-go has gotten up and went!" • **Michael L. Terry**, ME: "In February I accepted the position of general manager of engineering for the U.S. Steel plant in Kosice, Slovakia. After working in the steel industry for 30 years in a number of locations around the United States, we are enjoying the chance to live in eastern Europe."

1975

John Branstetter, CE, gave the commencement speech at Linn State Technical College on May 7, 2004. He is currently an adjunct instructor in the college's civil and construction engineering management technology department. • **Kevin Skibiski**, CE, MS CE'76, was named a fellow of the National Society of

Professional Engineers in 2004. The title honors active NSPE members who have demonstrated exemplary service to the profession, the society and the community. • **Harty C. Van Jr.**, MS PetE: "I retired from the U.S. Army in 1979 and from Amoco in 1998. We love this retired life! Come see us in Slidell, La."

1976

Annie H. Milne, Chem: "My current volunteer activities include recording text for an organization called Recording for the Blind and Dyslexic."

1977

Brad R. Parrish, CE, MS CE'78, was installed as president-elect of the Missouri Society of Professional Engineers. Parrish is co-founder and president of Palmerton & Parrish Inc. in Springfield, Mo.

(Continued on page 54)

Two alumni receive awards from MSPE

Two alumni recently received awards from the Missouri Society of Professional Engineers (MSPE).

Angelika Adams, CE'93, project manager and project engineer for Burns & McDonnell, recently received the 2004 Young Engineer of the Year Award, which is given annually to an engineer, age 34 or under, who has distinguished him or herself within MSPE, the engineering profession and the community.

Britt Smith, AE'91, director of streets and parking for Jefferson City, Mo., recently received the "Extra Mile Resolution" for his "outstanding efforts in leading the MSPE membership committee's efforts to recruit and retain members of the statewide organization."

Douthitts receive award from United States Defense Department

On March 17, 2004, **Sharon (Gates) Douthitt**, Geo'88, and **Jeff Douthitt**, Geo'88, MS Geo'89, received the U.S. Department of Defense Nunn-Perry Award in Washington, D.C., for outstanding performance and accomplishments under the Defense Department's Mentor-Protege program over the past year. The Douthitts own GEO Consultants LLC, an environmental services and geological engineering firm.



Sharon and Jeff Douthitt



St. Pat's merchandise

Order online at <http://web.umn.edu/~stpats/>

Sweatshirts are available in S, M, L and XL for \$25; XXL and XXXL for \$26.

To order go online, or email Alicia Canelos at amcwf@umn.edu. To see if there are alumni events for St. Pat's planned in your area, go to alumni.umn.edu.

1978

Paul J. Nauert Jr., EE: "I enjoy working with Dr. Bradrul Chowdhury in his capacity as chapter chair of the IEEE Power Engineering Society in St. Louis. We've been able to arrange several technical meetings. Encourage other UMR EE alumni in the St. Louis area to join IEEE PES."

1979

Larry McCallister, CE, MS CE'79, a U.S. Army colonel, is the command engineer and director of logistics and installations for the U.S. Forces Headquarters in Japan. McCallister was recently elected fellow of the Society of American Military Engineers. He and his wife, **Lynn**, LSci'79, and their daughter, Shannon, live on Yokota Air Base in Japan. The McCallisters have lived in Turkey and Israel and are still having fun seeing the world. • **Marjorie Melton**, ChE, was named president of the board of public service for the City of St. Louis. She is the first African American woman to hold this position.

1980s

1980

Ann Hagni, GGph, MS EMgt'85, PhD GGph'95, has joined CTL Group as senior scientist and manager of microscopy. Hagni has 20 years of experience in management and materials science environments • **Jeffery Theerman**, CE, was promoted to executive director at the Metropolitan St. Louis Sewer District, where he has worked since 1984.

1981

Mark Harrison, CE, joined the St. Louis regional offices of Burns & McDonnell as senior project manager. • **Mark J. Short**, CSci: "My wife, Sloan, and I are doing fine. The kids, Sam, 3, and Luke, 5, are great." • **Jeffrey J. Sunderland**, ME: "My wife, Mandy, son, Michael, 6, and I just finished our first year of living in Beijing. I have a resident assignment as health environment and safety manager for ChevronTexaco."

1983

Steven C. McNabb, EE, was elected as a board of directors representative to the executive committee of the Missouri Society of Professional Engineers. He represents the southwest chapter. McNabb is an electrical engineer and vice president for Allgeier, Martin and Associates Inc. of Joplin, Mo. • **Bobby Stafford**, MS ME, is teaching high school science, math and Bible studies for Neosho (Mo.) Christian Schools.

1984

Charles B. Derbak, EE: "I was admitted to the Boeing Technical Fellowship at the associate level this year. I couldn't have done it without my UMR education." • **Bill Gwaltney**, ChE, was named general manager at Mid-Missouri Energy. He will serve as chief executive officer, reporting to the board of directors and managing, directing and coordinating all activities of the 729-member producer cooperative.

1985

Tana Booker, Engl, was named South Central Missouri Middle School Teacher of the Year. She has taught reading for the past 19 years at Steelville Middle School. • **Ancell M. Atkins**, PetE: "I'm still working for Lockheed Martin Aeronautics in Marietta, Ga., as a senior program manager

on the C-130J program. My wife, Kathleen, also works on the same project as a senior program manager. Between the two of us, we cover quite a bit of the C-130J customer base.”

1986

Lois Highfill, Psyc, celebrated 50 years of marriage to her husband, **Jim**, CE'54, on June 6, 2004.

1987

Dan Harper, CE, joined T.R. Hughes Commercial Group as a project manager. He is responsible for estimating, sales, project management and supervision. •

Derek Hodnett, GeoE, is now a senior geotechnical engineer at Aquaterra LLC, a Chattanooga, Tenn., consulting firm. •



Ron Rolfes, left, CE, joined Clayco Construction Co. as a project director and

brings to the company more than 16 years of experience in the construction industry. •

Linda M. (Reed) Tutko, MetE: “I was recently promoted to lieutenant colonel and have moved to Headquarters Air Force Space Command to work officer assignments. **Rich**, CSci'88, is also at Space Command working with up-and-coming satellites. Our daughter, Megan, a future Miner, entered the fifth grade this year.”

1990s

1990

Chris Chiodini, CE, was listed in *Ingram's* magazine's “40 under 40” issue. He is a senior civil engineer at Burns & McDonnell in Kansas City. • **Holly (Langston) Setter**, EE: “I recently completed a master's degree in business administration at the University of Kansas and am enjoying my job as a supervisor at Sprint in Overland Park, Kan.”

• **Daniel Wiltshire**, EMgt: “I recently left Johnson Controls after 11 years in

(Continued on page 56)



Nathan and Katie Bland

Boring and Bland unite

Ms. Boring and Mr. Bland were married on June 12 in Independence, Mo., and the wedding was neither boring nor bland.

“It was great,” said the groom. “We had family and a bunch of college and high school friends there, and our reception was at a winery. We all had a great time.”

You may know them as **Katie Boring**, CE'03, and **Nathan Bland**, a former UMR student. They met while studying engineering at UMR. Sorority sisters started calling Katie, “Katie Exciting,” a nickname that stuck. Now she's taken her husband's name, and said she gave no consideration to being known as Katie Boring-Bland.

While it's not known who mailed the wedding announcement to *The Tonight Show* with headlines reading “Boring-Bland” over their picture, the impending merger was mentioned by Jay Leno during a segment he calls “funny headlines.” “It caught us by surprise,” Nathan said. “We each got, like, 10 phone calls from friends that night.” The *Kansas City Star* got in on the fun with an article about the couple that was picked up by newspapers across the country.

Residing in Durham, N.C., Nathan is a mining engineer for Martin Marietta Materials Inc. and Katie is working on her master's degree in environmental engineering at the University of North Carolina-Chapel Hill.

Weddings

William Acheson, MS EMgt'95, married Felisa “Sally” Salud Aldas Lewis on July 3, 2004.

Steve Beattie, CE'98, married **Tracy Davenport**, CE'98, MS EMgt'01, on Nov. 8, 2003.

Todd Balkenbush, ME'94, married Crystal Hoover on April 3, 2004.

Matt Fischer, CSci'99, married **Paige Navin**, ME'01, on May 22, 2004, in Loveland, Colo. They reside in Fort Collins, Colo.

Bradley C. Flauaus, ChE'94, married Angela M. Pastorino on Oct. 11, 2003.

Jason Jeffries, CE'02, MS CE'04, married **Shannon Foil**, CE'02, MS CE'03, on May 29, 2004.

Christopher Keithley, AE'02, MS AE'03, married **Rebecca Durham**, CE'03, on Dec. 27, 2003.

Daniel G. Perry, GeoE'99, married Lori D. Meyr on Aug. 31, 2003.

Curtis Schmidt, CSci'02, married Sheila Sparks on March 20, 2004.

Kevin M. Van Leer, CSci'04, married Jillian R. Straatmann on May 22, 2004.

Vernon D. Volker, PetE'54, married Iva M. Brown on Feb. 21, 2004.

Send us your wedding photos and stories and we'll publish them in a future issue of the *Alumnus*.

Crowe becomes director of facilities

Lt. James P. Crowe, CE'95, was recently transferred from the U.S. Navy's Pacific Division Facilities Command in Hawaii to the Facilities Department at the U.S. Marine Corps Recruitment Depot in San Diego.

Crowe, a seven-year veteran who has served around the world, will be the deputy director of facilities, a 70-person division supporting the depot.

Rastorfer receives engineering and military awards

Todd Rastorfer, CE'98, a civil engineer with the U.S. Army Corps of Engineers Albuquerque District, recently received the 2004 Richard H. Allen Young Engineer of the Year Award from the New Mexico Society of Professional Engineers. For his military service, he was also recently awarded the Achievement Medal for Civilian Service, the Division Commander's Coin, and the District Commander's Coin by South Pacific Division Commander Gen. Joseph Schroedel and District Commander Lt. Col. Dana Hurst.



Todd Rastorfer, center, was awarded the Achievement Medal from the U.S. Army Corps of Engineers for his civilian service.

Riney makes Most Influential Business Women's list

Suzanne Riney, CE'85, was recently featured in the *St. Louis Business Journals* list of "Most Influential Business Women."

Riney is director of Spartech Corp.'s environmental, health and safety programs, where she supervises corporate training and quality management programs.

One of Riney's accomplishments includes the development of Spartech's integrated business system. The system, which began operating in 2001, covers quality, environmental, health and safety standards. Today, it is used to maintain corporate certification.

Riney also played an important role in developing Spartech's executive education program with Washington University's Olin School of Business.

engineering and management. After many years of praying and saving I purchased a custom machine automation company called Metric Automation Inc., in Lee's Summit, Mo. The company has been around for 20 years under the names Metric Automotive and FlexSpray. We have seven employees. My wife, Jayne, daughter, Laura, and I attended the Kansas City alumni picnic for UMR students late in July."

1993

Christopher Case, LSci, was featured in the 40 under 40 Award Winner section of the Jefferson City *Business Times*. Case is an endocrinologist at the Jefferson City Medical Group and specializes in the



treatment of diabetes and the study of obesity. • **Lisa E. Fennewald**, left, CE, was named associate and promoted to assistant project manager at Horner & Shifrin Inc. Fennewald

has experience in sanitary and environmental projects.

1994

Angie (Baer) O'Neill, EMgt: "We reside in Peoria, Ill. My husband, **Brian O'Neill**, MinE'95, and I are working at Caterpillar. Brian is a Six Sigma Black Belt. I work two days a week as an accountant. Life is busy and fun. It's changed a lot with the little ones now ruling the roost instead of us." • **Tom Robertson**, ME, is the 2004 recipient of the Outstanding Alumni Award presented by the East Central College Alumni Association. Robertson manages the technical service and training department for Nordyne Inc.

1995

Brian O'Neill, MinE: "We reside in Peoria, Ill. My wife, **Angie (Baer) O'Neill**, EMgt'94, and I both work for Caterpillar. Angie works two days a week as an accountant. I am currently a Six Sigma Black Belt. Life is busy and fun. It's changed a lot with the little ones now ruling the roost instead of us."

1996

Jim Ross, CE, was hired as the first public works engineer for Pleasant Hill, Mo. He will supervise day-to-day operations, including the municipal water and wastewater system, streets and stormwater system and parks and recreational facilities.

1997

Brad Butler, EE: "My wife, Kristi, and I continue to live in Madison, Ala. I work for Dynetics Inc. in Huntsville with many UMR grads."

1998

Steve Beattie, CE, and **Tracy (Davenport) CE**, MS EMgt'01: "Steve is a captain in the Air Force flying UH-1N Iroquois which is also called 'The Huey.' I am a first lieutenant and the deputy base civil engineer for the 113th Wing in the District of Columbia Air National Guard. We are both stationed at Andrews Air Force Base in Maryland and live in Upper Marlboro with our two dogs, Bailey and Chloe." • **Genevieve M. Bodnar**, MetE, MinE'01: "I am now working as an environmental manager for Fred Weber Inc. in St. Louis. In April I accompanied the UMR Lady Muckers to the mining competition in Butte, Mont. Congratulations to both the men's and women's mucking teams for their outstanding performances."

Wagner brothers share more than love of science

Brothers **John Wagner** (pictured on right), NucE'92, and **Robert Wagner** (pictured on left), ME'93, MS ME'95, PhD ME'99, share a family love of science which led them to positions as researchers at Oak Ridge National Laboratory in Tennessee. That's not the only thing they share, though. Both have the distinction of having won the University of Tennessee-Battelle Early Career Engineering Award for Outstanding Accomplishments in Science and Technology.



ALL IN THE FAMILY: Robert Wagner and John Wagner.

John received the award in 2002 for his work related to the safety of spent nuclear fuel. Robert earned the award in 2003 for research on advanced engine controls and new combustion regimes, work critical for meeting the U.S. Department of Energy goals of higher energy efficiency and lower emissions for the transportation sector.

- **Kevin Hill**, GeoE: "I took a position as a reservoir engineer with Chesapeake Energy in Oklahoma City in April 2004. My wife, **Jennifer (Bowman)**, Psych'98, finished teaching in March at a middle school in Houston so we could make the move to Oklahoma as a family. She is now a stay-at-home mom to Katelyn, 4, and Brittany, 2."
- **Cory Reiter**, GE'98, and **Cassie (Alsop)**, CE'98: "We both recently passed the Professional Engineer exam. I am still with Crawford, Murphy & Tilly, and Cory is with Professional Environmental in St. Louis."
- **Molly (Johnson) Remer**, Psyc: "I received a master's degree in social work from the University of Missouri-Columbia in 2000. I have published two short books, *Talking to Someone Whose Child is Dying* and *A Quick Guide to Successful Volunteering*. Both are available online from www.vertfieldfarm.com."

1999

William "Bill" Gillis, ME, was hired as an instructor at the Rolla Technical Center to teach eBusiness, a new program in the business and information technology department. • **Jason Prewitt**, EMgt, joined Contegra Construction Co. as a project manager. He oversees the daily operations of construction projects, including scheduling and budgets.

2000s

2000

Genevieve Fabela, EE, received a full scholarship to the University of Southern California to work toward a master's degree in business administration.

2002

Shannon (Foil) Jeffries, CE'02, MS CE'03: "I am working for Olsson Associates and my husband, **Jason**, CE'02, MS CE'04, is working for Pullman Power in Kansas City, Mo."

2003

Brian Ballard, ME, graduated from U.S. Naval officer training in Pensacola, Fla., in April 2004. He is assigned to the U.S. Naval Weapons Station in Goose Creek, S.C. • **David Pederson**, EMgt, joined S.M. Wilson & Co. as a project manager. • **Henry B. Suter III**, ME, received his commission as a Naval officer after completing Officer Candidate School at Officer Training Command in Pensacola, Fla. • **Elizabeth Trotter**, ChE: "I am a stay-at-home mom in Blue Springs, Mo. My husband, Jonathan, works as a sales manager for Gateway Tubing. He is preparing to take the California bar exam in July."

Rodrigues' thoughts on Declaration published

When the *St. Louis Post-Dispatch* asked readers to write about what the American Declaration of Independence meant to them, **Sunil Boscoe Rodrigues**, ECE'01, responded immediately. His response was one of 13 submissions chosen to appear in the publication.

Though Rodrigues, who came to the United States from the tiny village of Olalim in Goa, India, is still not an American, he believes that the declaration can be appreciated by anyone, no matter their nationality.

Grad receives best student paper award

Studying soil contamination's effects on plants resulted in a Best Student Paper Award for **Garrett Struckhoff**, CE'02, MS CE'03. Struckhoff received the citation from the Battelle Memorial Institute.

Struckhoff's paper, co-authored with **Joel Burken**, associate professor of civil, architectural and environmental engineering, and John Schumacher, a hydrologist at the U.S. Geological Survey office in Rolla, discusses how the researchers located groundwater contamination by testing tissue samples from trees growing above a contaminated site in New Haven, Mo. Struckhoff is now working on a Ph.D. at the University of Iowa.

2004

Richard A. Gorrell, AE, was commissioned as a second lieutenant in the Air Force Reserve through the ROTC program after graduation. He is a pilot trainee assigned to the 14th Operations Support Squadron at Columbus Air Force Base in Mississippi.

FUTURE MINERS

Scott Boyd, LSci'94, and his wife, **Tania (Guha)**, CSci'94, had a boy, Eric, on June 11, 2004. He joins brothers Ryan and Alex.



Grace Cecilia Brown

Brad Butler, EE'97, and his wife, Kristi, had twin girls, Anna Grace and Morgan Ashley on Sept. 25, 2003.

C. Landon Brown, AE'03, and his wife, Elisabeth, had a girl, Grace Cecilia, on July 1, 2004.



Butler Twins: Morgan Ashley, left, and Anna Grace, right.



Brooks Liam Davidson

Lynn (Morak) Feagan, EMgt'96, and her husband, Harold, had a girl, Katherine "Kate" Marie, on May 28, 2004.



Katherine Marie Feagan



Madelyn Grace Frank

Steven Frank, ME'98, and his wife, Staci, had a girl, Madelyn Grace, on May 21, 2004.



O'Neill Brothers

Brian O'Neill, MinE'95, and his wife, **Angie (Baer)**, EMgt'94, had a boy, Grant, on March 14, 2003. He joins a brother, 3.

Rich Piepho, EMgt'96, MS EMgt'02, and his wife, **Gayle (Hoppe)**, Math'98, had a girl, Lana Gayle, on June 13, 2004.

Cory Reiter, GeoE'98, and his wife, **Cassie (Alsop)**, CE'98, had a girl, Averie Margaret, on May 26, 2004. She joins sister Lauren, 2.



Lana Gayle Piepho



Lann Carlyle Remer

Molly (Johnson) Remer, Psyc'98, and her husband, Mark, had a boy, Lann Carlyle, on Sept. 21, 2003.

Stan Schultz, CE'90, and his wife, Kathy, had a boy, Michael, on April 27, 2003, then had triplet girls, Samantha, Allison and Brooklyn, on Dec. 21, 2003.

Robin (Robert) Seydel, AE'93, and his wife, Carrie, had a girl, Amelia, on Feb. 11, 2004. She joins brother Isaac, 2.



Amelia Seydel

Rachel Durst-Strecker, PetE'99, GeoE'99, and her husband, Jason, had a boy, William George, on Feb. 29, 2004.



William George Strecker

Eric G. Wilkins, CerE'90, MS Cer'92, and his wife, Valerie, had a boy, Garrik Edward, on Feb. 26, 2004. He joins sisters Celia, 5, and Olivia, 3.

1932



Frank J. Zvanut, CerE, PhD Chem'37, was a member of Tau Beta Pi, Phi Kappa Phi and Sigma Xi while attending MSM-UMR. Zvanut retired from Cabot Corp. to become

president and CEO of the Frank J. Zvanut Co., representing American raw materials and Italian plant equipment to the ceramic industry. †May 2, 2004

1937



Wilbern T. Moore, ME, was a member of Alpha Lambda Tau and ASME while attending MSM-UMR. Moore began his career with Amoco Productions in High Island, Texas.

Following retirement, he worked as a consultant until 1981. †May 29, 2004

1938

Elmer E. Kelsey, CE, was a member of Pi Kappa Alpha and ASCE while attending MSM-UMR. After graduating, Kelsey worked for McNally Pittsburg Manufacturing, but changed to full-time farming because of deteriorating eyesight. For 30 years, he managed Camp Cyokamo, a Christian youth camp serving Kansas, Arkansas, Missouri and Oklahoma. †July 13, 2004

1939



Leroy E. Smith, EE, was a member of Tau Beta Pi, Blue Key, Student Council and the Radio Club while attending MSM-UMR. While serving in

the U.S. Army Corps Ordnance Brigade and the Officers Reserve Corps, Smith achieved the rank of lieutenant colonel and was awarded the Bronze Star. He worked for Toledo Edison Co. for 30 years. †May 29, 2004

Jack E. Moore, ChE, was a member of Alpha Chi Sigma, Tau Beta Pi and Phi Kappa Phi while attending MSM-UMR. †June 28, 2004

1940

Raymond M. Donnelly, NDD, retired from the Naval Ordnance Station, where he was director of quality assurance for 31 years. † May 11, 2004



Herbert O. Kimmel, PetE, was a captain of the 8th Air Force at Leeds, England, from 1941 to 1945. From 1947 to 1950, Kimmel interpreted seismic data

in the jungles of Venezuela's Maracaibo Basin. He moved to Canada and worked most of his career with Esso Canada, moving briefly to Dome Petroleum prior to his retirement in 1987. †July 5, 2004

1943



Franklin C. Rehfeld, MetE, was a member of the ROTC Band and was a Scholastic Leader while attending MSM-UMR. Rehfeld was a

commissioned officer in the U.S. Army with the 866th Engineer Aviation Battalion and was awarded the Bronze Star for his service on the island of Mindoro. He retired from Monsanto as associate general counsel in 1982. †May 8, 2004

1944



Lewis A. Morgan, ME, was a member of Theta Tau and was on the Honor List while attending MSM-UMR. He was a lieutenant junior grade in the

U.S. Navy, a World War II veteran and worked for 37 years as an engineer for The Williams Companies. †July 8, 2004

1947



Edward B. Blair, MetE, was a member of Kappa Sigma, "M" Club and the basketball team and was on the Honor List while attending MSM-UMR.

Blair spent 34 years at Laclede Steel as a chief metallurgist before retiring in 1981. †May 17, 2004

Vincent A. Haak, MinE, was a member of AIME while attending MSM-UMR. †May 30, 2004

1948

John C. Wilks, EE, was a member of AIEE, was on the Honor List and worked as a student assistant in the electrical engineering department while attending MSM-UMR. Wilks served in the U.S. Army in Europe during World War II and received a Purple Heart and three Bronze Stars. He retired in 1986 after 38 years of service as a electrical engineer with IBM Poughkeepsie. †June 17, 2004

1949



Ray B. Collier, GGph, was a member of the Engineers Club, the track squad and AIME and was on the Honor List while attending MSM-UMR. Collier

was a first lieutenant in the U.S. Army Air Corps. A B-17 bomber navigator, he completed 50 missions and earned a Distinguished Flying Cross. After graduation, he worked with the U.S. Geological Survey, retiring in 1977. †May 14, 2004



Robert G. French, CE, was a member of Lambda Chi Alpha, Theta Tau, Tau Beta Pi and ASCE while attending MSM-UMR. French served in the U.S.

Army in the Pacific Theater during World War II. He was a civil engineer for the Missouri Department of Transportation, Carter-Waters Corp. and retired after 35 years of service with HTNB Corp. †March 25, 2004

1950



William D. Kessler, EE, was a member of Phi Kappa Phi and was on the Honor List while attending MSM-UMR. Kessler

retired in 1993 as an electrical engineer with L-3 Communications. He was a Navy veteran of World War II and a life member of IEEE. †April 5, 2004



Charles B. Konop, MinE, was a member of AIME and was on the Honor List while attending MSM-UMR. Konop worked at the U.S. Geological Survey,

first in cartography field assignments, then moved to the Rolla headquarters in 1959, where he retired in 1980. †May 18, 2004

Friends

Vivian Bock, wife of George Bock, NDD'52, †May 2004

Joe Brenneisen, husband of Mary Julia Brenneisen, †July 1, 2004

Janice K. Buhlinger, a long-time UMR staff member, †July 19, 2004

Matthew R. Duncan, a senior in civil engineering, †June 18, 2004

Joseph F. Fick, NDD, †April 25, 2003

Lyman L. Francis, professor emeritus of mechanical engineering at MSM-UMR, †May 14, 2004

Phyllis Kalk, wife of Franklin D. Kalk, MinE'51, †Feb. 19, 2003

Florence J. Luder, wife of the late Walter E. Luder, ME'37, †March 7, 2004

Mary Meisenheimer, wife of Clifford S. Meisenheimer, EE'75, †June 30, 2004

Mary Ann (Robin) Micka, wife of Donald C. Micka, PetE'58, †Nov. 1, 2003

Akshay S. Morzaria, a senior in electrical engineering, †May 9, 2004

Mary Jeanne Neumann, wife of Norbert F. Neumann, MetE'52, †July 16, 2004

Faith Trytko, wife of Eugene F. Trytko, EE'46, †April 16, 2004

Catherine Zvanut, wife of Frank J. Zvanut, CerE'32, PhD Chem'37, †Oct. 17, 2003



Raymond T. Ruenheck, ME, was a member of Pi Kappa Alpha, the *Rollamo* board and the MSM Glee Club while attending MSM-UMR.

Ruenheck had careers in engineering and management with Emerson, McDonnell Aircraft and Raytheon corporations. †July 19, 2004



Kenneth H. Yochum, ME, was a P-38 pilot during World War II. He retired from Phillips Petroleum Co.'s research and development department.

†July 6, 2004

1951



Joseph W. Durrenberger, MinE, was a member of Tau Kappa Epsilon, Tech Club and AIME and was on the Honor List while attending MSM-

UMR. Durrenberger served in the U.S. Navy during World War II, and was stationed in the Philippines. He worked in the copper mines, primarily for Phelps Dodge, where he retired as chief underground mine engineer. †March 19, 2004

Franklin D. Kalk, MinE, was a member of the Canterbury Club and AIME while attending MSM-UMR. Kalk served in the U.S. Army during World War II as part of Patton's Third Army and was in the Battle of the Bulge, receiving a Purple Heart and a Bronze Star with an oak leaf cluster. †May 3, 2004

1952

Joe F. Andrews, ME, was a member of the Engineers Club and the Wesley Foundation and was on the Honor List while attending MSM-UMR. †Nov. 14, 2003

1955

Hubert G. Weidman Jr., MinE, spent 30 years working as an engineer, inspector and surveyor for the Kansas Department of Transportation, retiring in 1993. †June 2, 2004

1957



Walter H. Ellis Jr., GGph, MS MetE'64, was a member of the Canterbury Club, AIME, Photo Club and Independents while attending MSM-UMR. Ellis

spent most of his engineering career in the aluminum industry and retired in 1995 from Kaiser Aluminum Co.'s Valco Aluminum plant in Ghana, West Africa. †April 5, 2004



Harold O. Gaddy, ME, was a member of Sigma Nu, the *Rollamo* board and Canterbury Club and was on the Honor List while attending MSM-UMR.

Gaddy owned and operated Air-Con Engineering for 40 years before retiring. He was an active member of the First Christian Church in Rolla and was a lifetime member of the Elks Lodge. †April 27, 2004

1959



Lloyd W. Carpenter, EE, was a member of Eta Kappa Nu, Phi Kappa Phi, Tau Beta Pi and AIEE-IRE and was on the Honor List while attending

MSM-UMR. Carpenter was a veteran of the Korean War. For more than 35 years, he was part of the Asset, Gemini, Harpoon and Tomahawk cruise missile programs at McDonnell Douglas Corp. in St. Louis. He retired in 1997. †July 15, 2004

Bobby F. Ibach, EE, was a member of AIEE-IRE and was on the Honor List while attending MSM-UMR. †April 12, 2004

1960

Robert J. Power, EE, was a member of the Prospectors Club, AIEE-IRE and the Newman Club while attending MSM-UMR. †Nov. 3, 2003

1965

George F. Luffel, MS Math, was a professor of mathematics at MSM-UMR from 1964 to 1982. †April 20, 2004

1969

Robert L. Seaman, ME, was a member of the Engineers Club and SAE while attending MSM-UMR. After a successful career at Borg-Werner Seaman, he bought his own business, Put One in the Upper Deck, a batting cage facility. He coached many children in baseball and softball. He also helped found the Motor City Section in Michigan. †May 9, 2004

1975



James P. Owens, Psyc, a veteran of the Korean conflict and the Vietnam War, died of a lung condition related to exposure to Agent Orange during the Vietnam War.

He was active in a veterans advocacy organization during the last years of his life. †May 13, 2004

1984

Gary D. Kaiser, EE, worked in the aerospace industry at Martin Marietta and Boeing. Kaiser entered civil service in 1995, working as an engineer for the Army and Air Force. He retired from government service in 2003. †June 24, 2004

1985

Mike Alan Bird, MinE, †Dec. 29, 2003

1999

Kris Lane Porubec, EE, †July 7, 2003

Policy

for publishing Alumni Notes

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

H.P. 'Phil' Leighly, Titanic researcher



H.P. "Phil" Leighly, professor emeritus of metallurgical engineering best known for his studies of steel from the *Titanic* disaster, died Aug. 28, 2004, at age 81.

Professor Leighly joined UMR's faculty in 1960 after earlier industrial and academic experience. He received bachelor's and master's degrees in metallurgical engineering from the University of Illinois in 1948 and 1950, respectively, then received a Ph.D.

in metallurgical engineering from the University of Illinois in 1952.

First becoming interested in the *Titanic* in the mid-1980s, after watching a documentary in which survivors recalled hearing a loud cracking noise when the ship struck the iceberg, Professor Leighly suspected that the noise was a clue that the steel was brittle. In 1997, he obtained more than 400 pounds of steel from the *Titanic*, then tested steel from the ship's hull and bulkhead in an attempt to figure out why the steel-hulled ship cracked. Professor Leighly's analysis was the second – and most comprehensive – study ever conducted on the steel from the *Titanic*, which sank in the North Atlantic on April 15, 1912, after striking an iceberg. Impact tests on the steel from the ship revealed that it was about 10 times more brittle than modern steel when tested at freezing temperatures – the estimated temperature of the water at the time the *Titanic* struck the iceberg.

Professor Leighly is survived by his wife, Elizabeth; son, David; and daughter, Karen.

Coach A.C. "Bud" Mercier

Former football and golf coach **A.C. "Bud" Mercier**, whose coaching career at UMR spanned 29 years, died of cancer Sept. 16, 2004, at his home in Rolla. He was 68.

A week before his death, Mercier was inducted into the MSM-UMR Athletic Hall of Fame. (See article on page 36.) Mercier, a 1959 graduate of the University of Missouri-Columbia who received a master's degree from Arkansas State University in 1966, first joined the UMR football coaching staff in 1967 under Dewey Allgood. He later served as assistant head coach under Charlie Finley. While Mercier was on the football coaching staff, the Miners won three league titles and had an undefeated season in 1980.

In addition to coaching football for 19 years, Mercier also served as assistant athletic director during a portion of his career at UMR. He retired from coaching in 1996.

Mercier is survived by his wife, Jane; his mother, Virginia; three daughters and their families: Debbie and Pat Stoner, Marcia and Randy McCash, and Donna and Mike Davis; a sister, Marcia Wagner; a niece, Michelle Harpole; and six grandchildren.

Memorial contributions are suggested to the American Cancer Society and the UMR football program.



Toomey's \$5 million sets pace for ME/AE Complex project

Plans to modernize the Mechanical and Aerospace Engineering Complex moved a tremendous step forward this past year, thanks to a \$5 million pledge from **John and Mary Toomey** and their



family. A Navy fighter pilot during World War II who came to MSM on the GI Bill, John, ME'49, MS ME'51, enjoyed a successful engineering career with Westinghouse, the Navy and Corvey Engineering before starting his own company in 1959. The Toomey family gift is the largest ever to a UMR academic program, and

it provides the foundation needed to raise additional funds for UMR's top priority – the renovation and expansion of the ME/AE Complex. "I'm very happy to invest in the future of both the mechanical and aerospace engineering programs and UMR," says John.

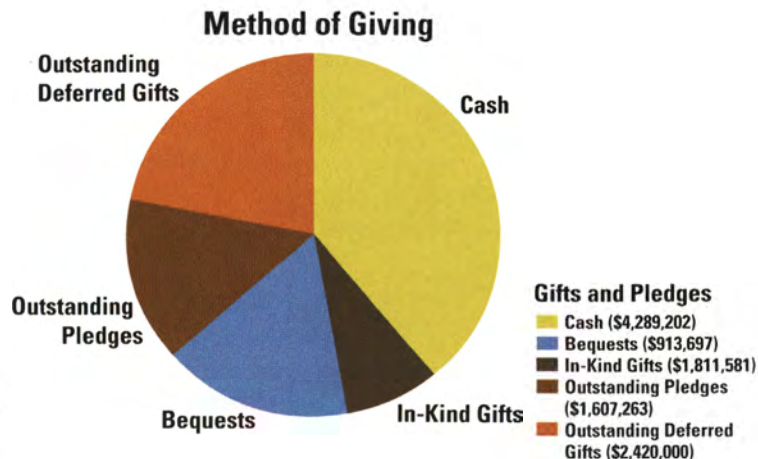
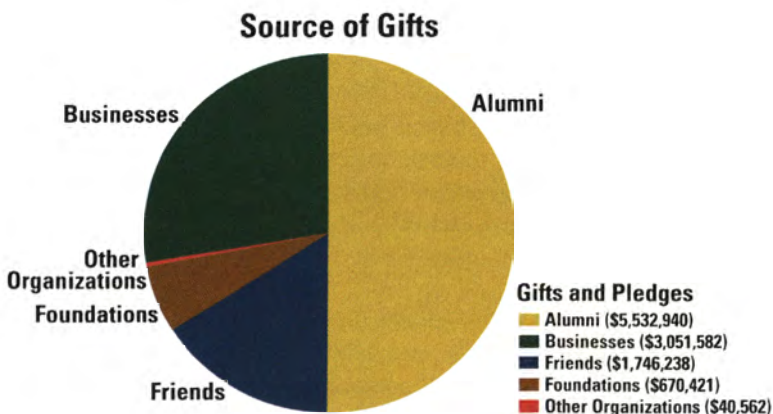
Alumnus' gift benefits design teams

Following the success of UMR's Solar Car Team in the pages of this magazine helped get **John Latzer**, ME'61, of Parsons, Kan., interested in all of UMR's student design teams. His recent donation of \$25,000 to support the UMR Student Design Center will help all the teams in their quest for continued success. "I am excited by technology and its place in the world," says Latzer. "UMR did so much for me educationally and professionally that I felt a need to give back. I contributed to the student design teams, and I wish so much that they had been available when I went to UMR. They are an opportunity not only to advance technology, but for the students to get their hands on that infamous 'real world.'"

Endowment supports Pi Kappa Alpha

As the UMR chapter of Pi Kappa Alpha fraternity prepares to celebrate its 100-year anniversary, one of the fraternity's brothers is helping future members of that group celebrate a different kind of "century" milestone. Through a \$100,000 gift to the MSM-UMR Alumni Association, **David C. Grimm**, MeE'50, of Clinton, Conn., has established a scholarship endowment to benefit Pi Kappa Alpha members. This fund will provide approximately \$5,000 in aid to students each year. "I just wanted to do something for the school, and somewhere along the line the idea of a scholarship for the fraternity came up," says Grimm. "I'm pleased to be able to help the university in this way."

How you gave



Friends & alumni making a difference

Grainger keeps the power going

Power engineers of the future – the men and women who will keep our utilities, electric motors, future hybrid vehicles and electronic gadgetry running smoothly – are today's electrical engineering students. And several of the most talented power engineering students benefit from annual awards made possible by the Grainger Foundation. Every spring, some 17 to 20 UMR electrical engineering students who plan to pursue careers in power engineering receive the foundation's \$5,000 Outstanding Power Engineering Student Awards. The foundation was established in 1979 by **William W. Grainger**, who built a successful mail-order business selling electrical motors. The annual Grainger awards are given to UMR undergraduate and graduate students who have excelled in their power engineering studies, research projects or senior design projects. "The Grainger Foundation supports universities that consistently attract students with promise and dedication," says foundation President **David Grainger**. "The faculty and students involved with the UMR Power Engineering program have responded with outstanding results." The Grainger Foundation also supports faculty at UMR through the Grainger Power Engineering Faculty Enhancement Fund.

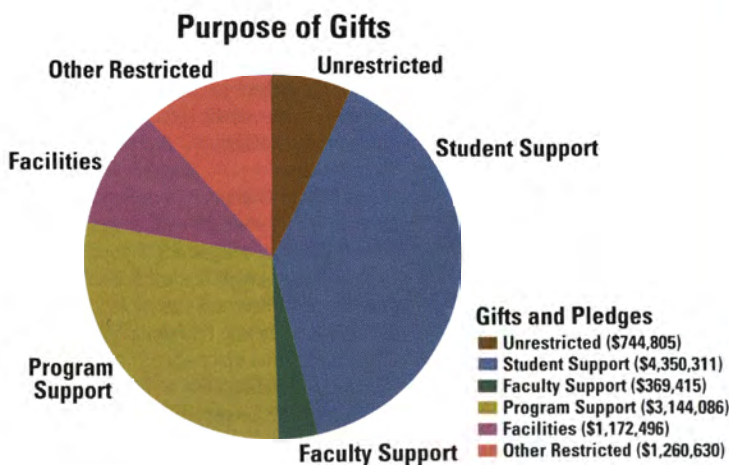
THE UMR ENDOWMENT – A LASTING LEGACY

Whether you give to the annual fund, support scholarships or specific academic programs, or provide funding for teaching or research excellence, your donation to UMR makes a great difference in the lives of our students. But if you want to ensure your gift continues to support the university well into the future, consider creating an endowed fund through your gift. Endowments may be created either with the campus or with the MSM-UMR Alumni Association.

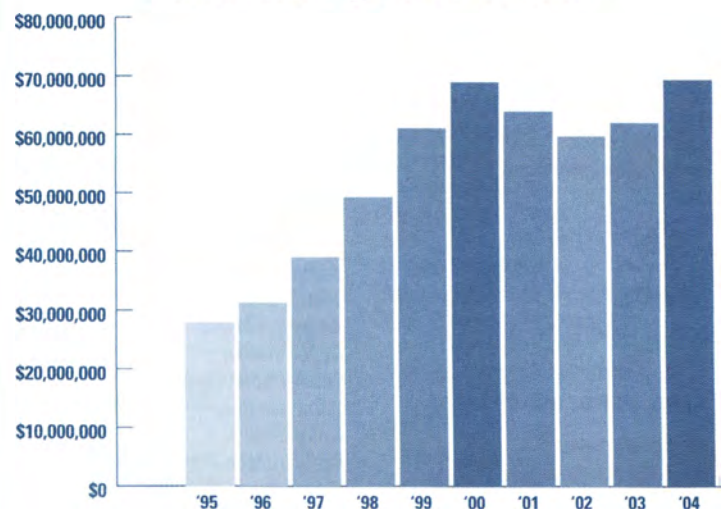
Endowed gifts are important to UMR for a number of reasons. Because they are invested for the long term to generate funds for particular needs, endowments provide a secure source of future revenue, and help the university plan for the future. On average, an endowment distributes 5 percent of its value per year to support the donor's intended purpose as it compounds in growth year after year.

Endowments also allow UMR to remain competitive in the global arena of higher education. They help UMR attract world-class professors, provide scholarships for outstanding students, upgrade equipment, enhance laboratories and build on the university's reputation for academic excellence.

Most importantly, endowed gifts allow donors to leave a lasting mark on the university. They not only provide continuous support for UMR, but also remind family, friends and classmates of your values and commitments. Future generations of students and faculty benefit from the generosity and vision of previous UMR donors.



Endowment growth at UMR



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 Dan & Loretta Paulson
 Harry & Ruth Pearson †
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 Russell Perry
 Crockey & Kathryn Peterson
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 Jerry & Maura Sellers
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 Lois Thomas
 Dudley Thompson †
 Leola Thompson
 LeRoy Thompson N
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 3M Foundation
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 Aisure Ltd. (A)
 AISC Education Foundation
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 Albemarle Corp. (A)
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 ALCOA
 ALCOA Foundation
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 American Institute of Steel Construction Inc.
 American Society of Civil Engineers
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 Anderson Engineering Inc.
 ANH Refractories Co.
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 Archer-Daniels-Midland Co.
 Arco Construction Co. Inc.
 ARIS Engineering Inc.
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 ASME International
 Associated General Contractors St. Louis Chapter
 Auto Paint and Trim
 Bachman Machine Co.
 Baldwin's Used Cars & Parts
 Ball & Prier Tire Inc.
 Barr Engineering Co. (A)
 BBW Industries Inc.
 Bechtel Foundation
 Benchmark Appraisal Co.
 Bennie's Beef & BBQ LLC
 Beta-Chi Educational Foundation
 Beverage Mart
 Bill's Custom Welding & Pre Fab
 Birkenmeier Chiropractic Center LLC
 Bitzer Products Co.
 BJC HealthCare
 Black & Veatch
 Blast-Co Contracting Inc.

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 J. Doyle Estate

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 Hasselmann † ♦

\$100,000 to \$249,999
 Karl F. Hasselmann † ♦

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 Harmon Trust ♦
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 Gevecker ♦ (A)

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 William M. Rodgers (A)
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 Irvin C. Spotte (A)

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 Charles H. Lambur (A)

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 Estate (A)

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\$100 to \$249
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 Thomas James Stewart Jr. ♦ (A)

Up to \$100

Lester E. Poesse (A)
 William R. Power

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 McCaffrey ♦ (A)

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\$100 to \$249
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 Rodman (A)

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 Prange ♦

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\$100 to \$249
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 Belding Henry McCurdy ♦ (A)

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 George E. Mueller ♦ (A)

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\$500 to \$999

Wayne J. Bennetsen ★ (A)

\$250 to \$499

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 Jennings R. Lambeth ★ (A)

\$100 to \$249

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 Hermann F. Bottcher (A)
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 James W. Jensen ★ (A)
 Warren L. Loveridge (A)
 Floyd P. Smith (A)
 Herbert R. Stockton (A)

Up to \$100

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 John H. Dunn
 Frank Kenneth Kyle (A)
 William M. Puetz

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\$5,000 to \$9,999

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 Vernon T. McGhee ★ (A)

\$2,500 to \$4,999

Oscar M. Muskopf ★ (A)

\$1,000 to \$2,499

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 Mrs. Robert (Joanne) F.
 Winkle ★ (A)

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 James W. Shaffer (A)
 Leonard C. Wolff ★ (A)
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 W. Zoller

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 Joe Van Pool (A)
 Charles E. Zanzie (A)

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 Benjamin E. Weidle (A)

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\$250 to \$499

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 Kenneth W. Vaughan (A)
 Roy C. Werner

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\$500 to \$999

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 Kenneth W. Schoeneberg (A)

\$250 to \$499

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\$100 to \$249

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 Peter Mushovic (A)
 Alan P. Ploesser
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Up to \$100

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 John R. Riggs
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 Edmund J. Waltenspiel

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\$250 to \$499

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 Caterpillar Inc.
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 Cochran Engineering & Surveying
 Colliers Turley Martin Tucker
 Combined Federal Campaign
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 Concrete Council
 ConocoPhillips
 CONSOL Inc.
 Continental Conveyor & Equipment Co.
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 Copper Club
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 Coterie Scholarship Fund
 Country Mart
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 Fairground Motors LLC
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 Ferrell Associates LLC
 Fidelity Communications
 Fiedler Technology Ltd. (A)
 Filter-Tek Inc.
 Foods For Health
 Ford Motor Co.
 Forum Dental
 Foundation for Chemical Research Inc.
 Franciscan Sisters (A)
 Fred Weber Inc.
 Freeman Energy Corp.
 Frost Chevrolet
 GPD Insurance Agency LLC
 General Motors Corp.
 General Motors Foundation
 George Butler Associates Inc.
 Geosystems Engineering Inc.
 Geotechnology Inc.
 Gerlands Food Fair
 Glenn Eckert Insurance
 Grainger Foundation Inc.
 Ground Round
 H & H Drilling Co. Inc.
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 Hanson Professional Services Inc.
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 Independent Stave Co.
 International Foundation for Telemetering
 Investment Realty Inc.
 J & I Automotive Dist. Inc.
 J & R Distributing Co.
 J.B. Arthur Foundation Charitable Trust
 Jack Kennedy Metal Products & Building Inc.
 Jacobi Geotechnical Engineering
 John & Diane Lovitt Charitable Fund

Class of 1946

\$1,000 to \$2,499
 Arthur R. Meenen (A)

\$100 to \$249
 Thomas D. Daniels (A)
 Donald I. Meyer
 Vincent E. Shanks (A)
 Kenneth M. Wilhelms

Up to \$100
 Raymond B. Jones (A)
 Walter H. Kiburz

Class of 1947

\$1,000 to \$2,499
 Harold G. Butzer ♦ (A)
 John E. Schork ♦ (A)

\$500 to \$999
 Paul F. Carlton

\$250 to \$499
 Richard E. Cole ♦ (A)
 Herman Mansfield (A)
 John D. Powell ♦ (A)
 Keith D. Sheppard (A)
 James A. Smith (A)

\$100 to \$249
 Roy H. Dunham (A)
 Glenn H. Fritz (A)
 Eugene E. Hammann (A)
 Paul Henning (A)
 Robert H. Kendall (A)
 Gilbert H. LaPiere (A)
 J. Walter Liddell
 William P. McKinnell Jr. (A)
 Robert K. Neuman
 James D. Sullivan
 Ronald A. Tappmeyer (A)
 Joel H. Teel (A)

Up to \$100
 Keith R. Bailie
 Warren H. Bell
 H. Cliff Dameron
 Gale Fulghum
 Vincent A. Haak † (A)
 Harold B. Harms
 John W. Lewis Jr.
 J. Edward Little
 Robert C. Pletz
 Wilbur P. Tappmeyer

Class of 1948

\$1,000 to \$2,499
 Mrs. Henry C. (Pat)
 Brassfield ♦ (A)
 James W. Hoelscher ♦ (A)
 Gilbert S. Keeley (A)
 Vernon R. Lawson (A)

Mrs. Irvin (Gertrude) D.
 Robbins ♦ (A)
 Joseph C. Vogt

\$500 to \$999
 James B. Chaney ♦ (A)
 Carl J. Hechinger (A)
 Pranlal G. Sheth (A)

\$250 to \$499
 John V. Glaves

\$100 to \$249
 Ralph Banks (A)
 Howard M. Casselman (A)
 R. Allen Crosby (A)
 William F. Ellis
 Robert E. Held (A)
 Joseph T. Hepp (A)
 Richard B. Howell (A)
 William A. Hyde (A)
 Gerardo E. Joffe (A)
 Robert T. Kracht (A)
 John V. Leahy (A)
 Donald J. Mathews † (A)
 Walter A. Mathews
 Mrs. George E. (Isabel)
 McCormack
 Harold G. Moe (A)
 Edward E. Mueller (A)
 Kenneth E. Niewoehner (A)
 Roger E. Nowlin (A)
 Alvin H. Shwartz (A)
 David G. Smith (A)
 Wilbert F. Stoecker (A)
 Richard A. Walker
 Glenn Windsor Warren (A)
 John C. Wilks † (A)

Up to \$100
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 John R. Barton
 Phil A. Browning
 Stanley E. Bye Jr. (A)
 James E. Chaffin
 Michael J. Delany
 Ronald E. Emo
 Richard C. Enochs (A)
 James R. Fisher (A)
 William J. Foley
 Lem N. Gager
 Robert O. Gregory
 Samuel P. Halcomb (A)
 Ellsworth W. Hudgens
 John W. Kasten (A)
 James J. McGovern (A)
 Paul Moore Jr.
 Lawrence F. O'Neill
 William H. Presley Jr. (A)
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 Robert P. Rauch
 Robert M. Rock
 Wilbern L. Weddle

James R. Whanger (A)
 John L. White (A)

Class of 1949

\$100,000 to \$249,000
 John B. Toomey ♦ (A)

\$10,000 to \$24,999
 Mrs. Amos (Lois) Norman (A)

\$5,000 to \$9,999
 Mrs. James A. (Mary Lou)
 Redding ♦ (A)
 Joseph G. Sevick ♦ (A)

\$2,500 to \$4,999
 William H. Gammon ♦ (A)
 Charles R. Remington ♦ (A)

\$1,000 to \$2,499
 Robert D. Bay ♦ (A)
 Jerome T. Berry ♦ (A)
 Francis E. Fennerty ♦ (A)
 Rayferd D. Routh ♦ (A)
 Frederick M. Springer ♦ (A)

\$500 to \$999
 Jack S. Downs (A)
 Elmer Cecil Hill (A)
 Daniel Paul Rice (A)
 Donald H. Timmer (A)

\$250 to \$499
 Harvey A. Anderson Jr. (A)
 Robert J. Kemper
 Charles R. Knopp (A)
 William A. Morgan
 John J. Ratcliff (A)
 John G. Reilly Jr. (A)
 John E. Stein (A)

\$100 to \$249
 Charles W. Bennett (A)
 Charles A. Bottermuller (A)
 David F. Brasel (A)
 Gordon L. Carpenter (A)
 Roy I. Copley Jr. (A)
 Delbert R. Cox
 David Dalpini
 Roy B. Deason
 Richard H. Duncan
 Norman Fanning
 Jack D. Foster (A)
 Joseph E. Greig
 William L. Griffith
 Nick Holloway Jr.
 Donald V. Kelly (A)
 Ralph E. Lee
 William H. Magruder (A)
 Robert L. Martin (A)
 Edmund L. Mengel (A)
 John J. Mulligan
 Joseph S. Quinn ♦ (A)
 Robert E. Reichelt (A)
 Peter E. Reisner

Donors listed by class year

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 Robert F. Tindall Jr. (A)
 Arthur L. Tucker (A)
 Landon C. Viles (A)
 Vernon L. Wells (A)
 Charles K. Wissel (A)
 Harold J. Withrow

Up to \$100

George M. Anderson ★ (A)
 Donald W. Atkisson
 Herman N. Bockstruck
 Alexander A. Boyer (A)
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 Frederick T. Crossman
 Carl J. Danzer (A)
 Paul K. Edwards (A)
 John W. Ehrler (A)
 James A. Feltmann
 Kurt H. Frank
 John W. Gosen (A)
 Paul H. Greer (A)
 Donald F. Haskell (A)
 Walter J. Janczewski
 Walter S. Knecht (A)
 Edward C. Leonard
 Myrl K. Line (A)
 Robert A. Perko (A)
 Bettijeanne M. Puffett (A)
 Gordon E. Raymer
 Harvey D. Ross (A)
 James C. Schmitt
 John W. Shute
 Charles P. Springstube
 Otto L. Van Maerssen (A)
 Reagan H. Young

Class of 1950

\$100,000 to \$249,999

David C. Grimm (A)

\$50,000 to \$99,999

Thomas A. Holmes ★

\$25,000 to \$49,999

Morton Deutch ★ (A)

\$10,000 to \$24,999

George W. Jamieson ★
 Mrs. Edward P. (Helen)
 Lasko ★ (A)

\$5,000 to \$9,999

Warren W. Rutz ★ (A)

\$2,500 to \$4,999

Richard J. Stegemeier ★ (A)

\$1,000 to \$2,499

Vernon G. Berkey ★ (A)
 Avery Ala Drake Jr. (A)
 Roy E. Hall
 Thomas A. Herrmann ★ (A)

J. Richard Hunt ★ (A)
 John L. Painter Estate (A)
 J. Kent Roberts ★

\$500 to \$999

Earle H. Filer (A)
 Arthur W. Helwig ★ (A)
 E. Louis Kapernaros (A)

\$250 to \$499

Laurel D. Berger (A)
 Jesse R. Bodine ★ (A)
 Donald P. Dampf (A)
 Robert H. Erskine (A)
 Robert O. Franklin (A)
 Edward P. Kyburz (A)
 Merritt E. Langston (A)
 Raymond H. Maag
 George W. Mabie (A)
 William L. Murphy (A)
 Robert E. Peppers (A)
 Earl G. Reynolds
 Norman F. Schneider (A)
 Seymour Subitzky (A)
 Walter W. Wissmann (A)
 Carl E. Zerweck Jr. (A)

\$100 to \$249

Alexander H. Baldo (A)
 Robert D. Ball (A)
 Eugene A. Bartels
 Leland F. Belew ★ (A)
 John C. Bennett
 James S. Blank (A)
 Billy Rex Browngard ★ (A)
 Laurence W. Cantwell (A)
 Willie Y. Chen (A)
 Wilbert L. Dare (A)
 Ralph Davis Jr.
 Stanley Dolecki
 Melih S. Durusan (A)
 William L. Gabelmann (A)
 Louis E. Greco (A)
 Aaron J. Greenberg (A)
 Paul A. Haas
 Mrs. Ernest B. (Eileen) Hall
 Joseph E. Hallemann (A)
 William M. Harris (A)
 Irvin J. Hawkins (A)
 William G. Haymes (A)
 Bennett D. Howell (A)
 Mrs. Paul A. (Mary) Huber (A)
 Waldo D. Humphrey (A)
 Clarence A. Isbell Jr. (A)
 H. Clay Iten
 Donald H. Johnson
 Ralph E. Johnston Jr. (A)
 Herman C. Kaller (A)
 Irving Klaus
 Karl L. Kraus (A)
 Arthur M. Krause Jr. (A)
 Charles O. Kunz (A)
 David R. Levy (A)
 Hulen H. Luetjen (A)

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 Donald W. Marshall (A)
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 H. Parnell Schoenky (A)
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 Lawrence A. Spanier ★
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 John F. Strong (A)
 Edwin R. Szumachowski (A)
 R. Milton Terry
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 Unsell ★

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 August J. Vogler Jr. (A)
 Walter W. Walker (A)
 Frank E. White Jr. (A)
 John F. Wickey ★ (A)
 James D. Winkler
 Ralph E. Wolfram (A)
 Robert C. Wood (A)
 Harold R. Wright (A)
 Franklin W. Wyatt (A)
 Kenneth H. Yochum †

Up to \$100

Edwin R. Acheson
 Lewis E. Agnew Jr. (A)
 Hubert T. Arnold
 Wilbert E. Bach Jr. (A)
 Irving G. Betz (A)
 Donald A. Branson
 Delmar Wallace Breuer
 Stuart S. Brown (A)
 Charles H. Church
 Roy T. Clayton (A)
 Russell Day
 Karlheinz Eissingner
 Robert D. Erb (A)
 Mrs. Walbridge P.
 (Betty) Eyberg
 Robert L. Fossi (A)
 Alan C. Goodding
 Clarence E. Graves Jr. (A)
 Albert M. Greenblatt (A)
 Donald C. Griffin
 Jack E. Guth (A)
 Gerald L. Hammond (A)
 Enriquet S. Heller (A)
 Edgar J. Hellriegel
 David L. Hillhouse (A)
 William P. Hughes (A)

Donor Businesses, Corporations, Foundations or Organizations

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 Johnny's Smoke Stak
 Jost Tire Co. Inc.
 Joy Mining Machinery
 Kansas City Medical Sales Inc.
 Kansas City Society for Coatings Technology
 KCI Construction Co.
 Kennecott Corp.
 Khafra Engineering Consultants
 Kiewit Construction Co.
 King City Lumber Co.
 Kiwanis Club of Rolla
 KLA-Tencor Foundation (A)
 Kozeny-Wagner Inc.
 Krueger Vending Services Inc.
 KSC Inc.
 LG Barcus & Sons
 Laclede Electric Cooperative
 Lake Area Clinic
 Landmark Contract Management Inc.
 Leo Cardetti's District Co.
 Logger Lane Townhomes LLC
 Lurk Custom Cabinets Inc.
 Magneco/Metrel Inc.
 Maid Rite Restaurant (A)
 Marathon Ashland Petroleum LLC
 Massman Construction Co.
 Master Blasters LLC
 McBride & Son Management Co.
 McCarthy
 McGrath Ice Service Inc.
 Meramec Pharmacy Inc.
 Meramec Regional Planning Commission
 Metrobility Optical Systems
 Michael C. Kearney & Assoc. Inc.
 Midwest Concrete Industry Board Inc.
 Midwest Engineering Co. LLC
 Midwest Testing Inc.
 Mine Site Technologies
 Missouri Concrete Association Inc.
 Missouri Department of Natural Resources
 Missouri Society of Professional Engineers Auxillary
 Missouri Southern Seed Corp.
 Missouri Chapter the American Concrete Institute
 MOCAP Inc.
 MRD Corp.
 National Action Council-Minorities
 National Instruments
 National Renewable Energy Laboratory
 Newman Center (A)
 NU-CAP
 Olin Corp.

DONORS

Donor Businesses, Corporations, Foundations or Organizations

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 Ottolino Winters Huebner Inc.
 Palmerton & Parrish Inc.
 Palmyra R-1 School District
 Pamela's Place
 Paul's Wholesale Outlet
 Peabody Energy Co.
 Pepsi-Cola Bottling Co.
 Peter Kiewit Foundation
 Phelps County Alumnae Panhellenic
 Phelps County Bank
 Phelps Dodge Corp.
 Plascore Inc.
 Plaza Fashion/Merle Norm
 PMMI Education and Training Foundation
 PPG Industries Foundation
 Primavera Systems Inc.
 Procter & Gamble Co.
 ProQuest Co.
 Protherm Corp.
 PublicAffairs
 R & K Excavation Inc.
 R.G. Brinkmann Construction Co.
 R.E. Moore & Associates LLC
 Race Data Engineering
 Reese Construction Co.
 Refractories Institute
 Reitz & Jens Inc.
 Rhodes Equipment Co.
 Rhodia Inc.
 Rinker Companies Foundation
 Robert E. Lee & Sons
 Rohm & Haas Co.
 Rolla Books & Toys
 Rolla Lions Club
 Rolla Lodge #587
 Rolla Monument Co.
 Rolla Ophthalmology Assoc. Inc.
 SAE International
 Sam Shippy Plumbing Inc.
 SBC Management Services Inc. (A)
 Schweiss Motor Co.
 Schweitzer Engineering Lab
 SCI Engineering Inc.
 Sears Brand Central Dealer Store
 Sears, Roebuck & Co.
 Sellers-Sexton Inc.
 Shannon & Wilson Inc.
 Sinan Corp.
 Smith & Edwards Inc. (A)
 Smith Sand and Gravel LLC

Norman W. Jeffries
 Russell J. Judah
 Kenneth G. Kasten
 George H. Kelley (A)
 William D. Kessler †
 Carl M. Knowles
 Albert M. Krainess
 Llewelyn N. Lodwick
 Joseph C. Manetzke Jr.
 Ernie V. Mason (A)
 Harvey W. Meier †
 Howard E. Meier (A)
 John E. Muehring (A)
 Theodore J. Oldenburg (A)
 Robert I. Patten
 Robert E. Paulsell
 Harvey I. Phillips Jr. (A)
 William F. Ricketts Jr.
 Earl D. Sanderson Jr.
 Stanley R. Scales (A)
 Arthur A. Smith
 Everett W. Springer (A)
 Robert E. Starke
 Robert R. Steele
 Eugene F. Stifel (A)
 Harold B. Theerman (A)
 Edgar E. Thielker (A)
 John Trianda
 Clarence J. Tunnicliff (A)
 Donald A. Wunnenberg
 Arthur W. Yager

Class of 1951

\$100,000 to \$249,999
 William E. Horst ★ (A)

\$2,500 to \$4,999
 Donald J. Dowling Jr. ★ (A)
 Paul S. Pender (A)
 Mrs. Robert V. (Dorothea) Wolf ★ (A)

\$1,000 to \$2,499
 Richard H. Bauer ★ (A)
 Herman A. Fritschen Jr. ★ (A)
 Joseph H. Senne ★ (A)

\$500 to \$999
 Anthony P. Anderhub (A)
 Richard L. Bullock ★ (A)
 Audrey A. Huddleson ★ (A)
 Earl E. Jackson (A)
 Kenneth W. Voertman (A)

\$250 to \$499
 Gerald B. Bellis (A)
 James D. Cooper (A)
 William A. Givens (A)
 David E. Glenn (A)
 John B. Griffith (A)
 Eugene F. Hohlfelder (A)
 Lester W. Holcomb (A)
 Clark F. Houghton
 William A. Koederitz

Warren D. Roach (A)
 William M. Shepard
 Thomas E. Walsh (A)
 Donald E. Wiseman (A)

\$100 to \$249
 Roger C. Banghart (A)
 Robert B. Barrow (A)
 Joseph A. Beatty
 Charles L. Boyd (A)
 William E. Brakensiek
 John W. Brilllos (A)
 Melvin A. Buettner (A)
 Kenneth E. Burkhead Sr. (A)
 George W. Comanich (A)
 Arthur A. Dasenbrock (A)
 Mrs. Robert (Virginia) E. Dieckgrafe
 George R. Donaldson (A)
 Ervin E. Dunn (A)
 Joseph W. Durrenberger † (A)
 Jerome K. Elbaum (A)
 William W. Fairchild
 Joseph P. Fris (A)
 Robert J. Ganley
 David S. Gould
 Frank G. Guzy (A)
 Rufus W. Hamman
 Loren Hargus Jr.
 William S. Harper (A)
 Paul Harrawood
 John W. Iselin (A)
 Gerald A. Johnson (A)
 Gerald N. Keller (A)
 Harry E. Kennedy (A)
 Herbert E. Kent
 Andrew E. Knepper (A)
 Rollin H. Koontz
 Dale F. Lackey
 Richard W. Ladd
 William R. Oldham (A)
 Elmer D. Packheiser (A)
 Jerry D. Plunkett
 Joe R. Powell (A)
 Robert E. Schuchardt (A)
 Ervin H. Sieck (A)
 Thomas E. Smith (A)
 Clifford A. Statler (A)
 Dwight M. Teagarden (A)
 Mario R. Trieste (A)
 Jack H. Venarde (A)
 Lee M. Wehmeier
 Larson E. Wile (A)
 Robert Zinke (A)

Up to \$100
 Gerald H. Bender (A)
 Billy L. Burkhardt (A)
 John R. Chappell
 Donald A. Coben
 Gilbert L. Crowell
 Joseph L. Dryden (A)
 William H. Elwood

Joseph M. Fornari
 Walter B. Garyotis
 William R. Griffin
 John A. Hirner (A)
 Cyril M. Kinane (A)
 Donald G. Kingsborough (A)
 M. Dean Kleinkopf
 Charles R. Kline (A)
 Eugene F. Kolb
 Eugene P. Larson
 John E. May
 Hulon D. McDaniel
 Roy G. Miles (A)
 Donald Dean Montgomery (A)
 Marion John Norton
 Howard A. Olson
 Joseph E. Perryman Jr. (A)
 Don V. Roloff
 Milton M. Silver (A)
 Robert C. Slankard
 Wilbert K. Theerman (A)
 Richard A. Thurston (A)
 William G. Van Bramer
 Mrs. Donald (June) J. Witzl (A)
 Richard A. Yeakey

Class of 1952

\$10,000 to \$24,999
 Gene W. Edwards ★ (A)

\$2,500 to \$4,999
 Byron L. Keil ★ (A)

\$1,000 to \$2,499
 John G. Bartel ★ (A)
 Kenneth L. DeLap (A)
 Norbert F. Neumann ★
 Theodore A. Ruppert (A)
 Robert P. Schaffer ★ (A)
 George L. Stegemeier (A)
 James F. Vance †

\$500 to \$999
 Harold R. Crane (A)
 Vernon C. Potter (A)
 Samuel J. Schneider
 Dirck B. Stickle (A)

\$250 to \$499
 Thomas S. Abernathy ★
 Richard L. Burdick (A)
 Edward L. Calcaterra ★
 John E. Evans (A)
 Paul L. Hausmann (A)
 George MacZura ★ (A)
 David A. Meskan (A)
 John E. Mulholland Jr. (A)
 Waldemar D. Stopkey ★ (A)
 Robert F. Uthoff (A)

\$100 to \$249
 Richard M. Bosse (A)
 Lauren W. Choate
 Richard C. Cooper (A)

Donors listed by class year

Floyd M. Drummond (A)
 Joseph H. Geers (A)
 Gregory V. Menke (A)
 Charles L. Neiheiser (A)
 Robert J. Owens (A)
 William M. Penney Jr. (A)
 William M. Pulford
 Mehmet Keyhan Samimi (A)
 James H. Tankersley (A)
 Leroy K. Wheelock (A)
 Mrs. Kenneth (Joan)
 J. Whelan
 Dean N. Williams (A)
 John P. Zedalis (A)

Up to \$100

Francis S. Basler (A)
 James R. Borberg (A)
 James R. Boyle (A)
 Homer E. Counce
 Willard E. Cox
 Michael DeLucca (A)
 Warren V. DeMier
 John W. Finklang (A)
 George E. Fish
 William B. Guinn (A)
 Wayne D. Jackson (A)
 Eugene M. Laubach
 Roy E. Lee (A)
 Jack Licata
 Peter J. Lucido
 Rolla S. Lush
 Don D. Matson (A)
 George S. Morefield
 Earl E. Pape (A)
 Denver S. Patton Jr. (A)
 Clarence E. Richey
 Donald A. Rumsey
 Eugene F. Sanders (A)
 Everett George Stevens
 Russell R. Strite (A)
 Clarence M. Tarr Jr.
 James A. Van Bebber Jr. (A)
 Joseph P. Varanouskas
 Robert O. Wickey
 Leonard H. Wolfberg (A)
 William J. Zenik

Class of 1953

\$10,000 to \$24,999

Vernon T. Jones ♦ (A)

\$1,000 to \$2,499

William J. Barbier ♦
 William E. Bennett ♦
 William F. Oberschelp (A)
 Roland L. Pohlman Jr. ♦

\$500 to \$999

Robert D. Jenkins ♦
 Edward J. Keil (A)
 Howard J. Yorston

\$250 to \$499

Walker L. Flood (A)
 George J. Freebersyser (A)
 Peter G. Hansen
 Myron B. Haynes (A)
 Elwood L. Knobel (A)
 Andrew E. Leponis (A)
 Eugene W. Myers (A)
 William E. Patterson ♦ (A)
 Bob L. Paulsell (A)
 James F. Roberts
 Eugene E. Stroheck (A)

\$100 to \$249

Ernest R. Achterberg (A)
 James Edward Akers (A)
 William C. Blackwell (A)
 Marvin W. Boyd (A)
 Everett E. Bruer Jr. (A)
 Wayne C. Dannenbrink (A)
 Earl R. Dill (A)
 Albert A. Fosha Jr.
 William R. Gregoire
 Richard C. Hendrickson (A)
 Thomas L. Koederitz (A)
 William W. Kronmueller (A)
 Eugene A. Lang Sr. ♦ (A)
 James F. Ludewig
 John Robert McDonald (A)
 Fred Scharf (A)
 Frederick R. Wagner (A)

Up to \$100

Henry E. Andre
 James E. Cauthorn (A)
 Henry M. Cole
 Edward L. Creamer (A)
 Donald L. Gegel
 John P. Greiten Jr. (A)
 Ralph L. Kuster Jr. (A)
 William A. Lindgren (A)
 David B. McKee (A)
 Richard W. Meek
 William F. Meek
 Eugene J. Poschel (A)
 Raymond Reschetz (A)
 Joe B. Reynolds
 Michael C. Robel (A)
 Fred E. Roberts
 Norman A. Rosekrans
 Raymond J. Sacks
 James R. Stowe (A)
 John C. Young

Class of 1954

\$1,000 to \$2,499

Herbert P. Pillisch (A)

\$500 to \$999

Max A. Burgett (A)
 Robert A. Shoolbred

\$250 to \$499

Wilford Ashley
 Frank B. Conci (A)
 Jack B. Dowell (A)
 Gene H. Haertling
 James Kenneth Highfill ♦
 James R. Patterson (A)
 William H. Stewart
 Carlos H. Tiernon ♦

\$100 to \$249

Carroll P. Bennett (A)
 Mack A. Breazeale
 Mrs. Fredrick (JoeAnn)
 B. Burns (A)
 John L. Finley ♦
 Gordon B. French (A)
 William F. Geisler (A)
 Joe E. Gray (A)
 Daniel E. Groteke (A)
 James A. Hubeli
 Harold A. Koelling (A)
 Richard C. Kolb
 Robert G. O'Brien (A)
 Richard M. Pracht (A)
 Donald E. Puyear
 James O. Toutz (A)
 Eugene F. Trytko
 Vernon D. Volker (A)

Up to \$100

Martin W. Barylski
 Kenneth D. Cole (A)
 Jerry R. Custead (A)
 Dale H. Emling
 James A. Gerard
 Robert B. Hopley
 Judson A. Hughes Jr. (A)
 Richard M. Humphries (A)
 James C. Jones
 Arthur H. Kemp III (A)
 Herbert E. Lincoln III
 Ralph C. Perkins Jr.
 Charles C. Poe Jr.
 Robert B. Puyear
 Ray Rucker
 Milton E. Schmidt (A)
 Milton J. Smid

Class of 1955

\$50,000 to \$99,999

Chester H. Baker (A)

\$25,000 to \$49,999

Frederick S. Kummer Jr. ♦

\$10,000 to \$24,999

Robert G. Bening ♦
 Edward N. Sickafus

\$2,500 to \$4,999

Ellis Jean Smith ♦ (A)

\$1,000 to \$2,499

Virgil Lee Powell (A)

Donor Businesses, Corporations, Foundations or Organizations

Society of Flight Test Engineers
 Society of Petroleum Engineers Wives (A)
 Spatial Corp.
 Sport Rehab Inc.
 St. Louis Chapter SFTE
 St. Louis Members of AISC
 St. Louis Section AIAA
 St. Louis Section Alumni (A)
 St. James Winery
 Starr Management Corp. (A)
 Stevenson's Sheetmetal
 Stewart & Stewart, CPAS, PC
 Subsurface Constructors Inc.
 Sun Microsystems
 SX International Enterprises Inc.
 TL Prehn Properties Inc.
 TR Hughes Inc.
 Tasty Tates
 Tektronix Inc.
 The 270th Field Artillery (A)
 TMS
 Tnemec Co./Albert C. Bean Sr. Foundation
 Tolbert Lumber Co.
 TSI Engineering Inc.
 Union Pacific Corporation (A)
 University Book & Supply LLC
 University of British Columbia
 Urban Districts Alliance Inc.
 URS Corp.
 USG Corp.
 V.H. McNutt Memorial Foundation
 Vero Millwork Inc.
 Vessell Mineral Products Corp.
 Virginia Tech
 Vulcan Materials Co.
 Wal-Mart
 Wal-Mart Foundation
 Walnut Lady Art Gallery
 Weir International Mining Consultants
 Western Chapter of the MO SOPEA
 Western Inn
 Wharton Foundation
 Whitacre-Greer Fireproofing Co.
 Wildwood Springs Resort Inc.
 Williams, Robinson, White, Rigler & Buschjost
 Wilson Lumber Co.
 XL Sci-Tech Inc.
 Yoakum Dump Trucking
 Zane's Rolla Tire & Garage LLC
 Zemann Construction Co.
 Zeta Tau Alpha (A)

DONORS

\$500 to \$999

Donald L. Kummer (A)
David E. Nothstine (A)
Robert B. Oetting

\$250 to \$499

Arthur G. Baebler (A)
Edward L. Clark Jr.
Jerome P. Dorlac (A)
Garland C. Friederich (A)
Richard L. Jones (A)
John M. McCarthy (A)
C. Gene Penzel
Herman A. Ray (A)
Samuel Smart (A)

\$100 to \$249

Richard O. Berg (A)
John L. Best ♦
Thomas A. Corcoran Jr. (A)
James M. Franklin (A)
Dale D. Gilliam (A)

Charles A. Hahs
Robert E. Newcomer
William J. O'Neill (A)
John W. Padan (A)
Peter O. Redel (A)
Charles W. Schuman (A)
Benjamin K. Smith (A)
Arthur M. Soellner
James Warren Stump (A)
Paul B. Tucker (A)
Spyros G. Varsos (A)
Charlie F. Vaughn (A)

Up to \$100

Samuel U. Barco (A)
Campbell C. Barnds III (A)
Donald R. Bogue (A)
Everett J. Collier
Lawrence L. Gidley
Mrs. Russell Langston
James W. Marlow
Robert J. Martin

Miklos E. Nagy
Robert E. Owens
James W. Rethmeyer Jr.
M. Duane Sanner
Julius N. Scott (A)

Class of 1956

\$10,000 to \$24,999

LeRoy E. Thompson ♦ (A)

\$2,500 to \$4,999

George R. Baumgartner ♦ (A)
James M. Murphy

\$1,000 to \$2,499

Charles R. Altheide ♦ (A)
Bruce R. Doe
Ronald F. Gillham ♦
Kenneth G. Riley ♦ (A)
Dale J. Schillinger ♦ (A)
James A. Shieldmyer ♦
James A. Unnerstall ♦ (A)

\$500 to \$999

Willis G. Grinstead ♦ (A)

\$250 to \$499

Thomas D. Cochran
Norman E. Hart ♦ (A)
Gilbert G. Jurenka (A)
Harlan L. Kebel (A)
George L. Senior (A)
Jack D. Stewart (A)

\$100 to \$249

James D. Bess
Larry N. Fussell (A)
Dennis J. Gooding
Wendell L. Haubein (A)
James L. Hickernell (A)
H. Robert Horton
Richard A. Hughes (A)
Roy B. Johanboeke
Ralph H. Jones
James A. Martin
Robert M. Owen
Arthur Reetz Jr.
Harry J. Sauer Jr. (A)
Harold A. Schmidt (A)
Raymond H. Tauser (A)
David E. Thompson
Mrs. Norman (Charlene)
L. Walker
August C. Weisler Jr. (A)

Up to \$100

Joseph B. Dillon (A)
David G. Edmonds
Robert M. Gruver
John R. Hammond †
Harry D. Hays
Richard S. Herndon
Ray L. Kollmeyer (A)
Warren Lieberman
Edward L. Mills (A)
Robert E. Moore † (A)
E. Paul Remmers (A)
Allen H. Rudolph (A)
Clay J. Schmittou (A)
William W. Schramm (A)
Kennyn D. Statler (A)
Kenneth F. Steffan (A)
Maurice E. Suhre Jr. (A)
Donald R. Walter
Nicholas M. Weiss

Class of 1957

\$5,000 to \$9,999

Lloyd E. Reuss ♦ (A)
William S. Soper ♦ (A)

\$1,000 to \$2,499

David W. Bunch ♦
George O. Gratz (A)
Richard B. Heagler Sr. ♦ (A)

\$500 to \$999

Roger L. Feaster (A)
David G. McKinstry
Mrs. Robert B. (Ann) Webb ♦

\$250 to \$499

Charles R. Baker
Richard L. Humphrey (A)
Waymon L. Johnston (A)
Paul W. Leming (A)
Philip S. Roush (A)
Jerry J. Webb (A)

\$100 to \$249

William Alexander (A)
Robert F. Auld (A)
David W. Berg
Edward B. Campen
Joseph P. Chorzel Jr. (A)
William G. Demzik (A)
Salvatore J. DiBartolo (A)
Frederick J. Dietrich
Charless W. Fowlkes (A)
Billy W. Franklin (A)
Robert G. Fuller (A)
Joseph F. Louvar (A)
Charles L. Miller (A)
Herbert W. Miller (A)
Richard D. Mueller (A)
Larry D. Oppliger (A)
Donald J. Roth (A)
Wallace R. Saunders (A)
Ardell J. Schelich (A)
John R. Scoggins
Joseph M. Seibold (A)
Clifford C. Tanquary (A)
Jack E. Toliver (A)
Richard C. Tucker (A)
Charles A. Wentz Jr. ♦ (A)
Carl F. Wiemken (A)

Up to \$100

John R. Anderson
Robert W. Anderson
August R. Bardelmeier
David W. Bates (A)
Warren D. Berger
Donald R. Bowers
Samuel S. Bowman III
Gale E. Butterfield
James D. Carl
Fred J. Coleman Jr.
Jack L. Conlee
Robert D. Eberle
Charles L. Edwards
Walter H. Ellis Jr. † (A)
Robert J. Fahrig
Donald J. Ferguson II
Charles A. Frey
Paul D. Gerlach
Ronald R. Guyer (A)
David L. Harbaugh (A)
Raymond L. Hussey (A)
Robert A. Jackson (A)

TOP 15 EMPLOYERS

Company	Total UMR Alumni Employed	Total Donors	Total Gifts Matched
Boeing	1,772	227	126
Ameren	413	71	34
GM	328	49	4
Honeywell	316	43	20
Caterpillar	286	57	32
Ford	255	27	17
Anheuser-Busch	225	32	15
SBC	205	35	20
Emerson	200	28	15
ExxonMobil	121	30	23
Burns & McDonnell	116	12	0
Olin	103	27	9
Texas Instruments	85	6	5
Sprint	76	10	3
Alcoa	71	28	21
TOTALS	4,572	682	334

Donors listed by class year

David D. Kick (A)
 Robert C. Lange (A)
 James B. Lorenz (A)
 Robert E. Mason (A)
 Alexander H. Matz Jr.
 William T. McClane
 John H. Rother
 Alfred E. Segelhorst (A)
 Kenneth W. Shriver
 Harold A. Steinbruegge
 D'Jeanne (Welden) Stevens
 Carl J. Thye Jr.
 James W. Trautwein
 Clarence J. Vetter Jr.
 James E. Watwood Jr.
 Russell E. Wege (A)
 John L. Weiler (A)
 Charles R. Weldy
 Ann P. Wethington

Class of 1958

\$10,000 to \$24,999

William D. Walker ♦

\$5,000 to \$9,999

Richard K. Vitek ♦ (A)

\$2,500 to \$4,999

Delbert E. Day ♦ (A)
 Donald R. McGovern ♦ (A)

\$1,000 to \$2,499

Ed McPherson (A)
 Paul R. Munger ♦ (A)
 Thomas J. O'Keefe ♦ (A)

\$500 to \$999

Robert L. Bono
 William R. Montgomery ♦

\$250 to \$499

Wayne T. Andreas ♦ (A)
 Richard E. Boyett (A)
 Donald W. Capone ♦ (A)
 Paul O. Herrmann III (A)
 Arthur D. Kiehne
 Richard H. Okenfuss (A)
 Donald G. Pfanstiel (A)
 Orville L. Schaefer (A)
 Marion C. Skouby (A)
 Mack J. Stanton (A)
 David A. Sutton (A)
 Charles A. Watts (A)
 Kerry R. Withrow (A)

\$100 to \$249

Ronald G. Alberter (A)
 Rolland W. Behnken
 Robert J. Boschert (A)
 John R. Burrows (A)
 Frank J. Coffey
 Walter H. Davis
 Richard C. Dendler
 Jerry R. Ennis (A)
 Donald B. Gregory (A)

Harry E. Hardebeck (A)
 Jack B. Haydon ♦ (A)
 Eldon W. Head
 Dennis R. Hunnicutt
 Jack L. Jost (A)
 Ronald D. Jurenka
 John F. Kirse Jr.
 Eva B. Kisvarsanyi
 Richard J. Konrad ♦ (A)
 Joseph C. Kroutil (A)
 William J. Luebbert (A)
 Dennis E. Mason
 William D. McCulley (A)
 Joseph A. Mickes
 Donald E. Modesitt (A)
 Charles C. Myers
 John F. Rasche
 William E. Schluemer
 E. Robert Schmidt Jr. (A)
 R. Thomas Smith
 Robert E. Spratt
 Gilbert Starkweather (A)
 George D. Tomazi ♦
 Lester A. Unnerstall (A)
 Sadegh M. Vakil (A)
 John W. Waters (A)

Up to \$100

Earl E. Anspach (A)
 Herbert G. Burbaw
 L. Fred Cox
 Bradford C. Cummings (A)
 Edward C. Duderstadt (A)
 William R. Field
 George E. Franke
 Donald G. Guetersloh
 Harvey C. Guinn
 Bobby Van Harris (A)
 James F. Hofstetter (A)
 Philip W. Jackson
 Eugene O. Mantovani
 Thomas C. Metcalf Jr. (A)
 Larry B. Meyer
 Donald C. Micka
 R. Lary Miller
 Jerome J. Orbals
 Raymond E. Phillips (A)
 Louis A. Pisacane
 Roy R. Rapisardo (A)
 Phillip W. Roper (A)
 Eugene R. Russell Sr.
 Alex S. Sakonyi
 Albert L. Schrenk (A)
 Richard A. Schwegel
 Royce M. Scott Jr.
 Bob Sfredo (A)
 Charles O. Stanford III
 James E. Twyman
 Charles R. Welch
 Billy B. West (A)
 Ralph O. Young

Class of 1959

\$100,000 to \$249,999

William Kruger †

\$1,000 to \$2,499

Jerry R. Bayless ♦ (A)
 A. James Berkel ♦

\$500 to \$999

Donald K. Bellchamber ♦ (A)
 Leo L. Bowlin Jr.
 Don E. Henderson ♦
 Marvin Ernest Hudwalker ♦ (A)
 Robert T. Pfisterer
 Joseph F. Reichert (A)
 Charles S. Schneider (A)
 George E. Uding
 Louis H. Whitehair (A)

\$250 to \$499

Perry R. Allison (A)
 Lucien M. Bolon Jr. ♦ (A)
 James E. Bradley ♦ (A)
 James H. Hahn (A)
 Robert G. Hughes (A)
 Eugene H. Koederitz (A)
 H. John Lutz (A)
 James M. Patterson (A)
 R. David Plank (A)
 Charles E. Pollard (A)
 Joel S. Scharf (A)
 James L. Shoemaker (A)
 Ronald E. Volker (A)
 Charles A. Washburn (A)
 Hugh W. Wilson (A)

\$100 to \$249

Robert J. Ahlert (A)
 William W. Beydler (A)
 Carl D. Bohl (A)
 Warren J. Carroll (A)
 Albert E. Cawns (A)
 Wilbert L. Falke
 Meril B. Fritchey
 William E. Hanneman
 J. Gerald Hofer (A)
 William E. Hord
 Frank E. Janes (A)
 Glenn Willard Jenkins
 Gordon E. Johnson
 Richard W. Jones
 Leland L. Long
 Harold D. Meisenheimer (A)
 Joseph P. Mengwasser
 Henry J. Mingo (A)
 William J. Moses (A)
 Ronald D. Mouser (A)
 Ronald L. Mueller (A)
 James O. Pitlyk (A)
 James E. Pugh (A)
 John L. Ratliff (A)
 Richard G. Ross ♦
 Carmen E. Ruggeri (A)

Matching Gift Companies

3M
 3M Foundation
 Abbott Laboratories Fund
 Accenture
 ACF Industries Inc.
 Agilent Technologies
 Air Liquide America Corp.
 Albemarle Corp. (A)
 Alcan Aluminum Corp.
 ALCOA Foundation
 Alliant Energy Foundation
 Alliant TechSystems Inc.
 Altria Group Inc.
 Amdahl Corp.
 Amerada Hess Corp.
 Ameren Charitable Trust
 AmerenUE
 American Electric Power
 American International Group Inc.
 American Standard Foundation
 Amersham Biosciences Corp.
 Amgen Foundation
 Amsted Industries Foundation
 Anadarko Petroleum Corp.
 Analog Devices
 AngloGold (Colorado) Corp.
 Anheuser-Busch Companies Inc.
 Anheuser-Busch Foundation
 Aon Foundation
 Aquila
 Arch Chemicals Inc.
 Arch Coal Inc.
 Archer-Daniels-Midland Co.
 Archer-Daniels-Midland Foundation
 Arkansas Best Corp.
 AT&T Foundation
 Atmos Energy Corp.
 ATOFINA Chemicals Inc.
 Avaya Communication
 BF Goodrich Co.
 Ball Corp.
 Bank of America Matching Gifts
 Barrick Goldstrike Mines Inc.
 Bartlett & West Engineers Inc.
 BASF Corp.
 Baxter International Foundation
 Bechtel Foundation
 Beckman Coulter Inc.
 Becton Dickinson Foundation
 The Boeing Co.
 Boeing/McDonnell Douglas Foundation
 Borg-Warner Foundation Inc.
 BP Foundation Inc.

DONORS

Matching Gift Companies

Bridgestone/Firestone Trust Fund
 Burlington Northern Foundation
 Butler Manufacturing Co.
 Cadence Design Systems Inc.
 Cargill Inc.
 Caterpillar Foundation
 Caterpillar Inc.
 Cessna Foundation
 Chevron Phillips Chemical Co. LP
 ChevronTexaco Corp.
 Chubb & Son Inc.
 CITGO Petroleum Corp.
 Citigroup Foundation
 CMS Energy Fund
 Colgate-Palmolive Co.
 Con-Edison
 Conexant Systems Inc.
 ConocoPhillips
 CONSOL Inc.
 Cooper Industries Foundation
 Corn Products International
 Crompton Corp.
 DaimlerChrysler Corp. Fund
 Dana Corp.
 Delphi Foundation
 Delta Airlines Foundation
 Deutsche Bank Americas Foundation
 Devon Energy Corp.
 Dow Chemical Co. Foundation
 Dow Corning Corp.
 Dresser-Rand
 DST Systems Inc.
 Duke Energy Corp.
 Eaton Charitable Trust
 Edison International
 Eli Lilly & Company Foundation
 Emerson
 Engelhard Corp.
 Entergy Operations Inc.
 Entergy Services Inc.
 EOG Resources Inc.
 Equistar Chemicals LP
 Equiva Services LLC
 Ericsson GE Mobile Communications
 Ethyl Corp.
 Exelon Corp.
 ExxonMobil Foundation
 Fluor Foundation
 FM Global Foundation
 Ford Motor Co.
 FPL Group Foundation Inc.
 General Electric
 General Mills Foundation

Eugene L. Rusert
 Royce G. Schierding
 Kenneth W. Shrum
 John H. Smith (A)
 Billy J. Thompson (A)
 James E. Weimholt (A)
 Newton L. Wells (A)
 Richard H. Wieker (A)

Up to \$100

William D. Auberry
 Frank L. Baum Jr.
 Fred Borgini
 John G. Borman
 Gerald A. Bramon Jr.
 William L. Buren
 Frank D. Cavalier
 Don W. Crapnell (A)
 Fred R. Dice Jr.
 Phillip R. Elam
 Donald R. Feaster
 John E. Fuller
 Rex A. Gilmore Jr.
 James David Godsy
 Glenn W. Hoffman
 James D. Jackson
 Jon T. Langstaff
 David C. Law (A)
 James E. Linn Jr.
 Harry K. W. Lum (A)
 Gerald T. McHaffie (A)
 Alan H. McHugh
 Robert C. McIntyre (A)
 Gerald L. Metcalf (A)
 Paul E. Minton
 John F. Mitchell (A)
 Hugh G. Moore
 Leander A. Neumeier (A)
 Harold A. Olsen
 John T. Ruester
 Edmund W. Rusche Jr.
 Carl R. Schumacher
 Gerald O. Selle
 Lee Shell Jr.
 Gaylon G. Smith (A)
 Victor F. Spruill (A)
 Robert T. Stelloh (A)
 Richard N. Thompson
 Thomas L. Tucker
 Edward O. Wakefield (A)
 Paul D. Wilson
 Robert R. Wright

Class of 1960

\$10,000 to \$24,999

Bill R. Engelhardt ♦ (A)
 Risdon W. Hankinson ♦ (A)

\$5,000 to \$9,999

John W. Claypool ♦ (A)
 Kent Weisenstein ♦

\$2,500 to \$4,999

James K. Berthold ♦ (A)

\$1,000 to \$2,499

Jerrold M. Alyea ♦ (A)
 William A. Anderson ♦ (A)
 Mrs. William (Connie)
 M. Byrne Jr. ♦
 James L. Eckhoff ♦
 Robert D. Freeland ♦
 Orville Hunter Jr. ♦
 Wilbur L. McBay
 Gary K. Patterson ♦
 Kenneth W. Wood ♦ (A)

\$500 to \$999

Anthony P. Andreatta
 Glenn E. Cordes
 Don J. Gunther ♦
 Richard D. Waddell (A)

\$250 to \$499

Donald G. Cooper
 Michael C. Kearney (A)
 Donald L. Logsdon (A)
 James T. Lovelace

\$100 to \$249

Charles Akmakjian (A)
 Lewis K. Cappellari (A)
 James A. Colwell
 Thomas W. Cooper
 Henry I. Douglas
 Lee A. Flanigan
 Richard S. Groner
 John P. Hager
 John W. Harty
 Harry C. Hershey (A)
 Kenneth D. Jobe (A)
 Paul R. Jordan (A)
 Jimmie J. Justus (A)
 Lawrence P. Keeley (A)
 Hossein R. Keshari (A)
 Robert C. Kieffer (A)
 Mario A. Padilla (A)
 James H. Painter (A)
 Ray A. Parker Jr. (A)
 Kenneth I. Pendleton
 Weldon L. Phelps
 Donald J. Popp (A)
 Louis C. Rephlo (A)
 Robert K. Schuler
 Robert E. Siron (A)
 Richard E. Slusher (A)
 George E. Stourton (A)

Leo F. Tayloe (A)
 F.J. Taylor
 Millard K. Underwood Jr. (A)
 Robert J. Urban Jr. (A)
 Herman L. Vacca (A)
 Dale A. Vassalli Sr. (A)

Up to \$100

Hubert L. Adams (A)
 Ralph G. Angle (A)
 Carl D. Armstrong
 Robert R. Belew (A)
 Harold L. Bennett (A)
 Carol L. Blackwell (A)
 Howard L. Blevins (A)
 Lawrence A. Boston (A)
 Bruce L. Bramfitt
 Arthur W. Brauer
 James D. Coffman
 Marvin D. Cook
 Lloyd E. Cooper (A)
 Kenneth D. Corbin (A)
 Karl J. Daubel (A)
 Robert N. Davidson (A)
 Anthony Del Prete Jr. (A)
 William J. Denk (A)
 Walter H. Dickens (A)
 Michael P. Duvall (A)
 Virgil J. Flanigan (A)
 Thomas R. Halbrook
 Oliver E. Harris
 Victor J. Hoffmann ♦ (A)
 Kenneth F. Horenkamp
 Gordon R. Hyatt
 George H. Jordan (A)
 Joel J. Jurgens
 John H. Kern (A)
 Donald C. Knobloch
 Ronald A. Laffler
 Hugh T. Logue
 Frederick W. Lynch
 Henry T. Martin
 Ralph C. Maxton (A)
 John L. McDaniels (A)
 Thomas L. Mulherin
 B. Douglas Munsell (A)
 James L. Nagy
 Jon R. Nance
 Doyle F. Owens
 David E. Price (A)
 William F. Priesmeyer Jr.
 Clyde M. Rea
 Maurice M. Reynolds (A)
 Gene C. Rizer (A)
 Lee B. Robinson
 Joseph G. Sargent
 Ronald F. Schulz
 Gene L. Scofield (A)
 Buddie R. Smith (A)
 Walter D. Steinmann (A)
 Glenn I. Swartz
 Milton M. Tilman
 Lamar S. Todd

Donors listed by class year

Carl A. Vansant
 Neal T. Wagenheim (A)
 James J. Walther
 Frank Watson
 Harry J. Wilson

Class of 1961

\$25,000 to \$49,999

John C. Latzer ✦ (A)

\$10,000 to \$24,999

John L. Hodges ✦ (A)

\$5,000 to \$9,999

John W. Ricketts ✦

\$2,500 to \$4,999

Robert A. Garvey ✦
 Robert Meredith Saxer ✦

\$1,000 to \$2,499

Robert L. Benner (A)
 James R. DeSpain (A)
 Dale W. Leidy ✦
 Earl Glenn Pietsch
 Robert Wayne Whitehead ✦ (A)

\$500 to \$999

Jerry D. Edison (A)
 Bill L. Gerhart (A)
 Donald D. Myers (A)
 Jay A. Peterson (A)
 William F. Roth (A)

\$250 to \$499

Richard J. Agricola (A)
 James H. Besleme (A)
 Larry L. Dix (A)
 Andrew P. Elias (A)
 H. Neal Grannemann
 Robert W. Randolph (A)

\$100 to \$249

Leroy H. Alt
 Donald J. Annis (A)
 Richard I. Boe
 Lloyd E. Brunkhorst
 Thomas Canale
 Louis J. Chiodini Jr.
 Farouk E.S. El-Baz (A)
 William L. Frangel
 Jack C. Gates (A)
 James G. Harvey
 Russell S. Heglin (A)
 Robert E. Henderson (A)
 William A. Henning (A)
 Terry F. Lehnhoff
 Floyd E. Loftin
 Charles F. Marosek (A)
 Roger T. Martin
 Virendra K. Mathur
 Nelson H. Noell
 James T. Odom (A)
 Barbara R. Patterson ✦
 Ernest B. Perry Jr.

Robert C. Pickett
 Vinton L. Rathburn (A)
 Richard H. Redline (A)
 W. Wayne Siesennop (A)
 Metz K. Skelton (A)
 Merle E. Southern (A)
 Richard B. Spieldoch (A)
 James G. Staley (A)
 James R. Sutherland (A)
 Thomas A. Theobald
 Louis E. Toepfer (A)
 Roger C. Weber (A)
 Morris T. Worley

Up to \$100

Charles D. Akey
 Larry C. Amsler (A)
 Raymond E. Bohlmann
 William R. Bosse (A)
 Samuel Mitchell Bowers
 Richard L. Brake
 Eugene D. Brenning
 Gerald E. Brunkhart (A)
 Gregory A. Bruns
 William N. Curson (A)
 Glen F. Dear
 Charles R. Featherston (A)
 Martha S. (Shultz) Fowler (A)
 Fred L. Grismore Jr.
 Gerry G. Grommet (A)
 Jimmy D. Hahs
 George S. Hall (A)
 Richard A. Hampe
 Robert A. Harris
 George C. Heilig
 Kenneth W. Henry
 Fred V. Huff (A)
 John E. Hustad
 Melvin A. Ingram
 Jeremiah W. Jamieson (A)
 Richard R. Kapfer
 Charles A. Kiefer
 John B. Kincaid
 William A. Koenig
 Herman L. Koesterer
 Robert M. Laurenson (A)
 George W. Leck III
 Robert M. Logan
 James B. Marble (A)
 Donald S. Marler (A)
 William E. Mathews (A)
 David F. Maune
 William L. May (A)
 Jesse E. McNabb (A)
 John F. Merritt (A)
 John M. Miles (A)
 Thomas G. Noggle (A)
 Ronald R. Pfeuffer (A)
 Don L. Rueh
 Ramesh C. Shah (A)
 Paul N. Shy
 Peter G. Stern
 Curtis W. Stevenson

James A. Stidham (A)
 Bruce L. Stinchcomb
 Tony C. Stone (A)
 Larry G. Strobel
 Edward R. Tegland (A)
 Daniel W. True
 Mrs. Joseph (Verlene)
 F. Urekar (A)
 Harvey J. Walker Jr.
 Paul R. Whetsell

Class of 1962

\$50,000 to \$99,999

Gary W. Havener ✦

\$10,000 to \$24,999

Thomas P. Van Doren ✦

\$1,000 to \$2,499

Charles Copeland ✦ (A)
 Henry Pat Duvall ✦ (A)
 Gary A. Trippensee ✦
 Gerald C. Uhe ✦ (A)

\$500 to \$999

Ratan F. Daboo
 Bipin N. Doshi ✦

\$250 to \$499

Denny N. Bearce
 Floyd H. Hahn (A)
 Roger P. Hoffman (A)
 Arthur J. Jacobsmeyer
 Russell A. Kamper (A)
 John J. Komo (A)
 Gilbert R. McKean
 Donald R. Pogue (A)
 Aaron Michael Reuck
 Michael K. Reyburn (A)
 Paul D. Stigall
 Larry D. Webb (A)
 Daniel R. White
 Walter A. Zimmermann

\$100 to \$249

Allen L. Affolter (A)
 David B. Bartholic
 Kenneth D. Baxter (A)
 Jerald L. Bishop (A)
 Morris G. Boren (A)
 William F. Breig
 Robert H. Brockhaus (A)
 Karl L. Brown (A)
 Gary J. Buckrod (A)
 Larry D. Cline (A)
 Jan W. Coester
 Arthur Daoulas
 Bhalchandra T. Dave
 Lindell H. Elfrink (A)
 Arthur H. Farnham (A)
 Howard L. Fields
 Joe F. Fouraker
 Daniel S. Gnanamuthu (A)
 Michael N. Greeley (A)

Matching Gift Companies

General Motors Corp.
 General Motors Foundation
 Georgia-Pacific Co.
 Global SantaFe
 GMAC Insurance Personal Lines
 Halliburton Education Foundation
 Hallmark Corporate Foundation
 Harrahs Entertainment Inc.
 Harris Foundation
 HBE Corp.
 Henkel Corp.
 Hershey Foods Corp.
 Hewlett-Packard Co.
 Hickory Tech Corp. Foundation
 Home Depot
 Honeywell Foundation
 IBM
 Imo Industries Inc.
 Intel Foundation
 Interco Charitable Trust
 International Paper Foundation
 Invensys Systems Inc.
 J.M. Smucker Co.
 J.P. Morgan Chase & Co.
 Johns Manville Fund
 Johnson & Johnson
 Johnson Controls Foundation
 Kennecott Corp.
 Kern River Gas Transmission Co.
 Kerr-McGee Foundation
 Kimberly-Clark Foundation
 Kinder Morgan, Inc. Foundation
 L'Oreal USA Inc.
 Laclede Gas Co.
 Lexmark International Inc.
 Link-Belt Construction Equipment
 Lockheed Martin Corp.
 Lyondell Petrochemical Co.
 Mallinckrodt Inc.
 Marathon Ashland Petroleum LLC
 Maritz Inc.
 Marsh & McLennan Companies Inc.
 MasterCard International Inc.
 May Department Stores Co.
 Maytag Corp. Foundation
 McKesson Foundation Inc.
 Mead Corp. Foundation
 Merck Co. Foundation
 Michael C. Kearney & Assoc. Inc.
 Microsoft Corp.
 MidAmerican Energy Foundation
 Monsanto Fund
 Motiva Enterprises LLC

DONORS

Matching Gift Companies

Motorola Foundation
 National Gypsum Foundation
 National Starch & Chemical Foundation Inc.
 Newfield Exploration Co.
 Nike
 Northrop Grumman Foundation
 NSK Corp.
 Occidental Oil & Gas Charitable Foundation
 Occidental Petroleum Charitable Foundation
 Oklahoma Gas & Electric
 Olin Corp.
 Olin Corp. Charitable Trust
 ONDEO Nalco
 Oneok Foundation Inc.
 Parker Hannifin Foundation
 Penn Virginia Corp.
 Pentair Inc.
 Pepsi-Cola Bottling Co.
 PepsiCo Foundation
 Pfizer Inc.
 Pharmacia Foundation Inc.
 Philips Electronics North America Corp.
 Plum Creek Foundation
 PPG Industries Foundation
 PPL Electric Utilities Corp.
 Praxair Foundation Inc.
 Procter & Gamble Co.
 PSEG
 RadioShack
 Raytheon Co.
 Reilly Foundation
 Reuters America Inc.
 Rhodia Inc.
 Rockwell Collins Inc.
 Rohm & Haas Co.
 Ryobi
 S.C. Johnson & Son Inc.
 Samuel Roberts Noble Foundation Inc.
 Sara Lee Foundation
 Sasol North American Inc.
 SBC Foundation
 SBC Management Services Inc. (A)
 SCI Engineering Inc.
 Science Applications International Corp.
 Sealed Air Corp.
 Shell Oil Co. Foundation
 Siemens Automotive LP
 Smith & Edwards Inc. (A)
 Smith International
 Southern Nuclear Operating Co.
 Southern Star Central Gas Pipeline
 Southwestern Bell Foundation
 Sprint Foundation

Myron E. Grizio (A)
 James O. Guest (A)
 Gerald N. Haas
 Richard D. Hagni
 Lawrence E. Harvey
 David C. Hatfield (A)
 Larry J. Hatfield (A)
 Michael S. Herzog (A)
 James R. Hesse Sr.
 Gerald E. Huck
 Jack H. Jones (A)
 Jayant S. Kadakia (A)
 Warren G. Lawrence (A)
 Jerome E. Luecke (A)
 Peter H. F. Malsch (A)
 Erwin J. Mantei
 Murray Michael McCrary
 Peter E. Otten
 P. Darrell Ownby
 Daniel N. Payton III
 Thomas E. Phillips (A)
 Alfred R. Powell
 David L. Redington
 Russell R. Richard
 Gerald W. Rullkoetter (A)
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"I give because I am grateful for the opportunity given to me for an education after serving in the military during World War II. Because of the assistance provided to war veterans, I was able to go to college and get my degree. By giving back, I hope that I can help someone else who otherwise wouldn't be able to go to school."

– Donald Marshall, CE'50



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"It may be difficult to contemplate giving right after you graduate. But at some point you start taking stock of your career and your life and you realize that an education from UMR plays a big factor in where you go in life and what you accomplish. That is why we donate — to help give opportunities to others so they have a chance to pursue their dreams in life."

— Perrin Roller, GeoE'80



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“Ann and I both feel very strongly about education. I got a good education from UMR and we want other people to have the same opportunity. We feel that athletics, either intramural or varsity intercollegiate athletics, play a very important role in education. A good athletic program helps recruit good students. People want to come to a school that has a good, solid athletic program.”

– Gene Edwards, CE'52

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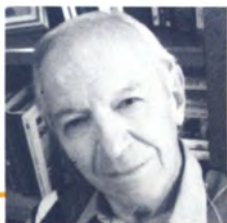
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"Even when I went to college it was expensive for a poor boy. It sure would have been nice to have received some financial assistance instead of leaving college significantly in debt. There must be somebody out there now with the capability and desire to go to school, who can't do so without some assistance."

– Mike Noggle, CE'69

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"UMR has become my home over the last few years and I feel an obligation to give back to the community that I have gained so much from. I know I will continue to give in the future and I figure I may as well start that giving now."

– **Julia Rosemann, senior in engineering management, OGS student member**



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"I want to pay back what I was given, and that was an opportunity. I was an out-of-state student with good grades, but no money! UMR and Dr. Al Spreng had faith in me and provided scholarships and work-study opportunities, which in turn allowed me to attend UMR. I attribute much of my staying power in the oil industry (even the bad ole days) to UMR's fine reputation and excellent academics."

– Torie Vandeven, GGph'77



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"I got a great education from UMR and that's what gave me a starting point in my career. Granted, I just graduated, but I got a really cool job and I love what I'm doing. That's all possible because of my education from UMR."

– Virginia Cleary, NucE'02, MS NucE'04



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"The skies above Wichita are filled with planes — big military ones, big commercial ones, and small ones bearing busy bees hastening to clinch deals."

An American Notebook
Philip Hamburger

Photo by Lacy Hansen Photography

The Air Capital city — Wichita, Kan. — is home to more than 250 MSM-UMR alumni and several major aircraft manufacturers, including The Boeing Co., Cessna Aircraft Co., Bombardier Aerospace Learjet Inc., Airbus Industries and Raytheon Aircraft Co. It's also home to one of the most active alumni sections in the MSM-UMR Alumni Association.

Wichita became a major draw for the aerospace industry during World War II, supplying planes for the war effort, says **Jennifer Marshall**, ME'96, a stress engineer at Boeing and co-founder of UMR's Air Capital alumni section. The section is so named because "We wanted a name that would identify us to this part of the country," she says.

Getting in touch with alumni in the area is essential to having a successful section, says **Laura (Bandy) McLaughlin**, EE'99, an engineer at Cessna Aircraft Co. and vice president of the section.

"When we know UMR alumni who are new to the area, we personally invite them to events," she says.

But the events keep them coming back. The Air Capital Section holds about five of them a year, ranging from minor league baseball and hockey games to laser tag. "It is a good chance for people to get together to meet with old friends, and make new friends who have had similar experiences," says **Sean Daly**, AE'96, a Cessna engineer who is the section's activities chair.

The Air Capital Section urges all MSM-UMR graduates to join an alumni section. "Not only is being part of an alumni section fun, but it helps keep me connected to UMR and remembering the great time I spent there," says **Rob Davis**, ME'01, a product engineer for AGCO Corp. and president of the section.

THE AIR CAPITAL OF ALUMNI

Pictured from left to right: Dan and Deborah Bandy (parents of Laura McLaughlin), Tony and Laura '99 (holding Annabella) McLaughlin, Karrie and Jeff '02 Meyers, Tracy Peterson, Jeff Bottler '04, Kirk Peterson '95 (holding Raelee), Elisabeth Maurer (guest of Jennifer Marshall), John Goethe '92, Kenny Swope '93 (holding sign), William Eno (guest of Cassandra Budde), Jennifer Marshall '96 (holding sign), Brent Cookson '04, Cassandra Budde '96, Randall Atkeisson '76, Sean Daly '96, Nancy Wilson, Rob Davis '01, Willis Wilson '73, Craig Goodloe '04 and Andrew Krisby '02.



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