



Missouri S&T Magazine, Fall 1998

Miner Alumni Association

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A PUBLICATION OF THE MSM-UMR ALUMNI ASSOCIATION FALL 1998 VOL. 72, NO. 3

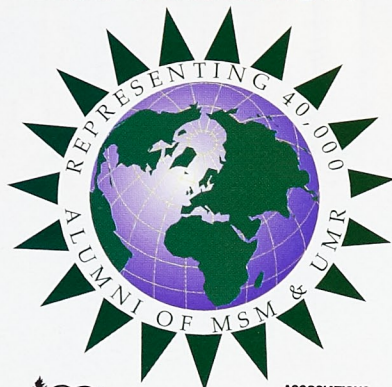
**MSM-
UMR**

ALUMNUS

**The circle two-thirds complete:
MSM-UMR Full Circle Campaign
surpasses \$43 million mark**



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

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MSM-UMR Alumnus (USPS 323-500) (ISSN 1084-6948)

Issued four times per year (March, June, September, December) in the interest of the graduates and former students of the Missouri School of Mines and Metallurgy and the University of Missouri-Rolla. The *MSM-UMR Alumnus* is published by the MSM-UMR Alumni Association, Castleman Hall, 1870 Miner Circle, Rolla, MO 65409-0650. Periodicals postage paid at Rolla, Mo. and additional mailing offices.

POSTMASTER: Send address changes to *MSM-UMR Alumnus*, Castleman Hall, P.O. Box 249, Rolla, MO 65402-0249.

We welcome your comments and suggestions for your *MSM-UMR Alumnus*.

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CAMPAIGN UPDATE

Campaign surpasses \$43 million mark 3-11

Since its public unveiling during Homecoming Weekend in the fall of 1997, the Full Circle Campaign has surpassed the \$43 million mark. The total goal for the campaign is \$60 million.

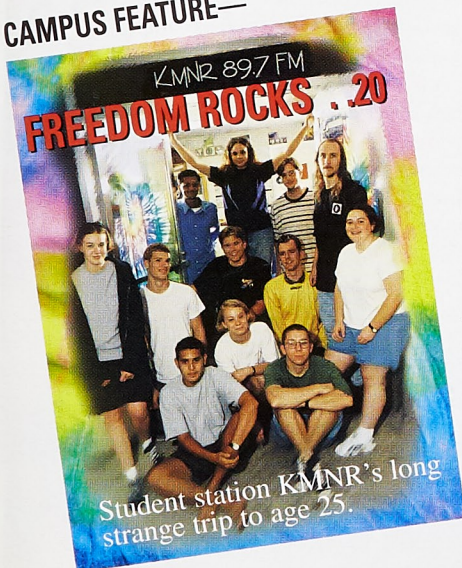


On the Cover: Norwood Hall

Built in 1903, Norwood Hall is the fourth oldest building on the UMR campus. The building was named for J.G. Norwood, a physicist and dean of the Medical School at the University of Missouri. Photo by Bob Phelan/Photomasters.



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From the Editors—

For a runner, the final miles of a marathon are the most grueling, but also the most gratifying. For a university, the final months of a capital campaign are much the same.

As we enter the final stretch of the *Full Circle Campaign* — with only three years before we cross the finish line — we are in good shape. In this issue, we celebrate passing a significant milestone in this race and take a look at the road ahead. We have now raised more than \$43 million of our \$60 million campaign goal. With the continued support of our loyal alumni and friends, we'll cross the finish line in 2001.

Plans are nothing. Planning is everything. So said Gen. Dwight D. Eisenhower, the architect of Operation Overlord, the successful Allied invasion of German-occupied France during World War II. Drawing from experience, Ike knew that a single turn of events could render his best-laid strategies obsolete, so he purposely kept the plans for D-Day flexible and responsive to potential changes on the battlefield, in the geopolitical arena, or in the Allied command.

That planning philosophy applies not only to wars, but also to universities. As we explain in our story (page 14) about UMR's recently completed master plan, titled "A New Vision," the document is a blueprint for campus growth, but it is by no means etched in stone. UMR will continue to plan for the future, but we will keep our plans flexible enough to take advantage of new opportunities as they arise.

One of the projects on the planning board has finally become a reality. Renovations of the Curtis Laws Wilson Library are now complete. The story (pages 12-14) details how the new renovations will better serve students.

Sometimes, universities are better off scrapping some of their plans, and UMR is no exception.

Twenty-five years ago, campus administrators were ready to eliminate student radio. But the student leaders of the old campus station, KMSM, rallied to save it. Thanks to their foresight, student-operated radio continues to thrive in KMSM's descendant, KMNR, which celebrates 25 years of free-format programming this fall. Also celebrating 25 years is UMR's public radio station, KUMR. The stories of these two radio stations — and a third that existed for a while in the '60s and '70s — begin on page 20.

Letters to the editor may be edited for length and content due to space limitations.

Correction: "Gifts honor memory of professor," page 3 of the Summer 1998 issue of the *Alumnus*, incorrectly listed Vernon Gevecker as working for the university from 1938-59. He actually worked for UMR until 1979.

Editor's note: The following letter was inadvertently omitted from the Summer 1998 issue of the *Alumnus*.

I recently received the spring issue of the *MSM-UMR Alumnus* and was appalled and disgusted by the way the Greek system was completely overlooked in your articles about leadership. I think you would have to look very



hard to find a better way to learn leadership skills than by joining a fraternity or sorority. Let's look at some facts:

Approximately 80 percent of the executives of the 500 largest corporations in America are fraternity men; more than three-fourths of our U.S. senators are fraternity men, as are a majority of the men listed in *Who's Who in America*; of the 16 U.S. presidents who had a chance to join a college fraternity, 13 took advantage of the opportunity.

When you live in a UMR dormitory, the university provides your food and shelter. At a UMR fraternity or sorority, all of this is taken care of by the organization's members. To make this happen requires leadership. Weekly chapter meetings are held. Budgets are made for food, utility costs, home improvements, etc. Committees are formed to carry out various tasks and individuals are elected to offices inside the fraternity and to be representatives in a host of other campus organizations.

A freshman coming into UMR has a much better chance of learning necessary leadership skills by going Greek than he or she will by not going Greek. I joined Alpha Epsilon Pi as a freshman at UMR and during my college career held several offices, including president. I was also a member of the Interfraternity Council where I chaired several committees. The old St. Pat's Board, whose members were mostly Greek, had more responsibility and handled more money than STUCO ever did or ever will. The next time you do a series of articles like this, try to do the whole story.

Darren C. Haverstick, AE'87

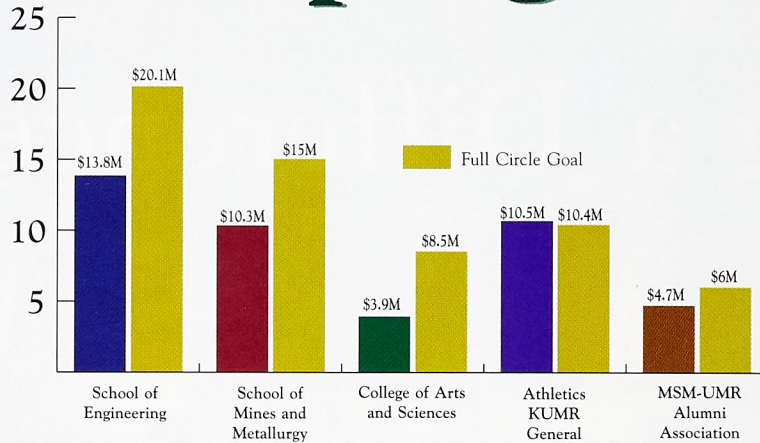


Making a Difference

ALPHA Campaign Gifts

Surpass \$43 Million Mark

Campaign surpasses

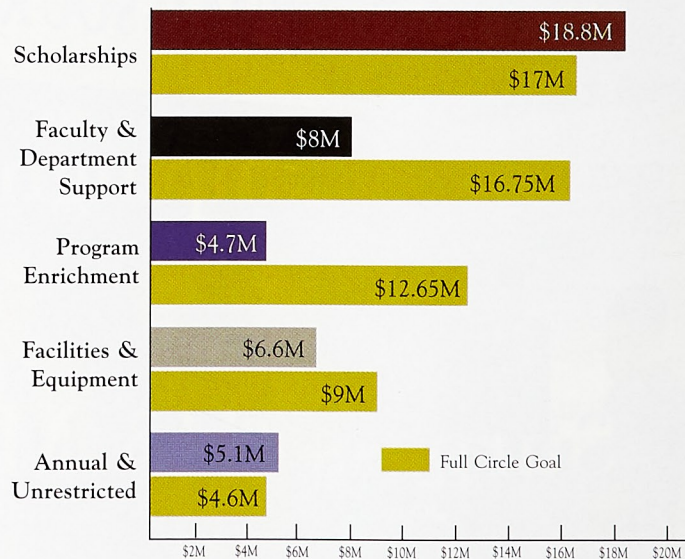
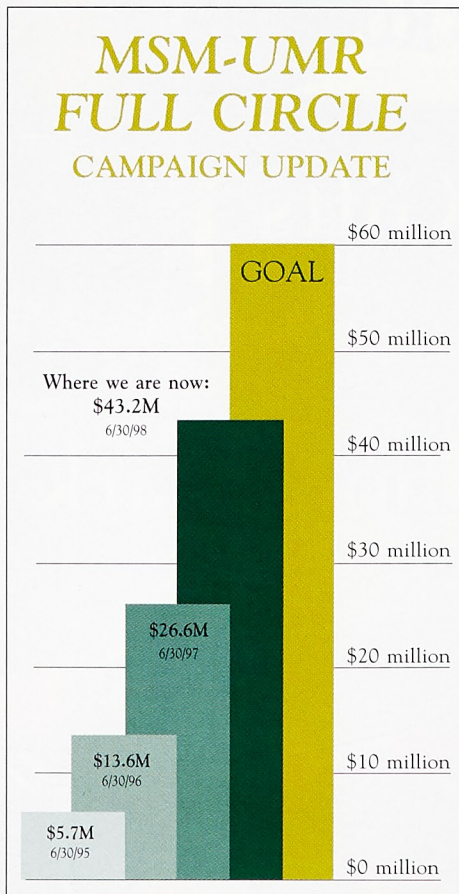


Actual funds raised by major academic and non-academic units:



The
*MSM-UMR
Full Circle
Campaign*

is two-thirds of
the way there!



Actual funds raised by major emphasis areas:



UMR ended its fiscal year at \$43.2 million toward its \$60 million campaign goal. At top, left: a breakdown of progress by major academic and non-academic units. Above: a breakdown of progress by emphasis area.

\$43 million mark



Since its public unveiling during Homecoming Weekend in the fall of 1997, the *Full Circle Campaign* has surpassed the \$43 million mark. The total goal for the campaign is \$60 million.

UMR Chancellor John T. Park attributes the *Full Circle Campaign's* success so far to "the generosity of UMR's alumni, parents, friends and trustees."

"Our campus is so fortunate to have such a generous group of people who really care about the future of UMR and its students," Park says. "Without their help we would not be able to provide our students with the education they'll need to be leaders in the 21st century."

Alumni are generous supporters of UMR's mission and vision. Over 26 percent of UMR's 42,000 alumni support the university annually — a proportion well above the national average of contributions of alumni from public universities (17 percent), and even above the average from alumni for private universities (25 percent). During the campaign, UMR hopes to increase alumni participation to 36 percent.

"Through this campaign, alumni and friends of MSM-UMR will ensure our legacy lives on — a legacy of excellence, innovation and achievement," Park says.

During the campaign, UMR hopes to increase alumni participation to 36 percent.

Three years remain in the *MSM-UMR Full Circle Campaign* effort. We ask you to consider making a multi-year pledge of support and to step up your financial commitment to the campus in the next three to five years. The giving of ourselves and our resources is how we express our interests, preferences and convictions. We ask you to reflect on the impact MSM-UMR has had in your life, and the impact your gift can make to your alma mater.

Please make UMR a priority today to ensure its future tomorrow.

NEW RESOURCES

By the time it is completed on June 30, 2001, the *Full Circle Campaign* will put new resources into these five areas:

STUDENT SCHOLARSHIPS AND SUPPORT (\$17 million), to ensure the best and the brightest students have the financial support they need.

PROGRAM ENRICHMENT (\$12.65 million), to strengthen UMR's teaching and research mission and to prepare students for the changing work force in the 21st century through expanded learning experiences.

FACULTY AND DEPARTMENTAL SUPPORT (\$16.75 million), to ensure that UMR's students are learning from world-class teachers and researchers.

FACILITIES AND EQUIPMENT (\$9 million), for innovative education and research programs, new construction, renovations and equipment — to keep UMR in step with today's technology.

ANNUAL AND UNRESTRICTED GIVING (\$4.6 million), to enhance and support a variety of projects, including student design competitions, seminars, undergraduate research, public radio KUMR and intercollegiate athletics.



The campaign continues a variety of gift methods are possible:

- Outright gifts of cash or securities.
- Income-producing gifts (contributions to a charitable remainder trust or pooled income fund) which provide you with a life income and UMR with the remainder interest.
- Estate gifts through bequests (by will or trust), retirement plan designations, or life insurance.



School of Engineering



Photo by Edmund T. Gaffney

UMR's Formula SAE car (above) raced to fourth place in this year's annual Formula SAE competition - the Formula SAE Team's best showing ever. And much of the success is due to the sponsorship of several corporations and individuals.

The Formula SAE Team isn't the only thing on a winning track in UMR's School of Engineering, however. The *Full Circle Campaign* is the catalyst for many other developments in the school, including:

NEW & EXPANDED DEGREE PROGRAMS

UMR's department of electrical and computer engineering this fall began offering B.S., M.S. and Ph.D. degrees in computer engineering, the fastest-growing job market in the nation. Critical to the success of this new program are two new professorships, one established by **Cynthia Tang**, Econ'85, and the other by **Fred**, EE'41, and **Mary Kay "Jimmie" Finley**.

The campus push to strengthen its environmental engineering program has been bolstered by the **John**, CE'67, MS CE'68, and **Susan Mathes** Professorship in Environmental Engineering, established in 1995, and recent corporate sponsorships of research being conducted through the Center for

Environmental Research and Technology and the Environmental Trace Substances Research Laboratory.

The **Keith**, ME'64, & **Pat Bailey** Professorship in Mechanical and Aerospace Engineering was established to expand UMR's integrated manufacturing program. The interdisciplinary design course funded by McDonnell Douglas (now Boeing) also supports this field of "concurrent engineering," which merges the design, manufacturing, and product support processes into one seamless operation.

BUILDING ADDITIONS & RENOVATIONS

The completion of Emerson Electric Company Hall has provided new laboratories and expanded classrooms to facilitate new team and design projects integrated into the enhanced curriculum. The **Russell A. Gund**, EE'40, Equipment Fund serves as a challenge grant to faculty to secure additional gifts for equipment for the new laboratories from companies and research institutions requiring matching funds. The campus has raised \$3.5 million of the \$4.4 million in private gifts needed for the renovation and addition to the Butler-Carlton Civil Engineering Building. **Fred**, CE'55, and **June Kummer**, Don

CE'60, and **Rosemary Gunther**, and **John**, CE'67, MS CE'68, and **Susan Mathes** have led support for this project.

SCHOLARSHIP AND FELLOWSHIP SUPPORT

A trio of chemical engineering alumni have established prominent scholarships through the MSM-UMR Alumni Association: **James**, ChE'66, and **Donna**

Bertelsmeyer, **Gerald**, ChE'59, MS ChE'63, and **Jeannie Stevenson**, and **Zeb**, ChE'72, and **Harriet Nash**. **George**, ChE'50, and **Barbara Jamieson**, have also established a major scholarship in the department of chemical engineering. Major scholarship support has been established through gifts from

Keith, ME'64 and **Pat Bailey** (engineering), **Dale Irwin Hayes**, MinE'12, and **Edna Caswell Hayes** (engineering), **William W. Coghill**, ChemE'34, MetE'33 (engineering), **William Paul Hatfield**, (civil engineering), **Russell A. Gund**, EE'40, (electrical and computer engineering) and **John**, EE'67, and **Carol Wolf** (electrical and computer engineering).

(continued on the next page)

Photo by Dan Seifert/Stonehouse Photography

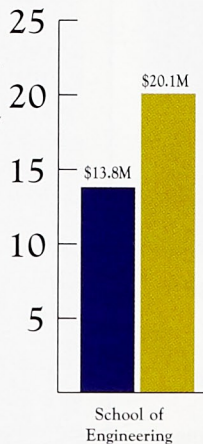


Photo by Dan Seifert/Stonehouse Photography





Photo by Dan Seiler/Stonehouse Photography

(School of Engineering continued)

Goals for the future...

CURRICULUM EXPANSION

The School of Engineering is working to establish a master's degree in the management of technology and a master's degree in manufacturing engineering. Support for faculty, facilities and scholarships will propel these academic areas. New technical directions also are being pursued in communications, telemetering, and media engineering, as well as micro-electrical mechanical systems. Plans for state-wide delivery of the master's degree in engineering management have prompted increased emphasis on multimedia and distance learning technologies.

LABORATORY FACILITIES

The department of mechanical and aerospace engineering and engineering mechanics is pressing on with plans to create a comprehensive computer-aided design laboratory to give today's students access to the tools they'll use in tomorrow's businesses. Plans call for a 20-PC lab outfitted with the latest CAD software. The facility will be designed to foster collaborative learning to better prepare students for their engineering careers.

School of Mines and Metallurgy

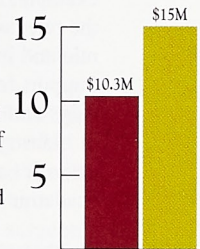
UMR's student mucking teams (right) are the envy of mining schools everywhere for their winning ways in the annual mining competition. And while our School of Mines and Metallurgy students showcase their skills at old-fashioned mining techniques, loyal alumni and friends of the school are working to make sure the education they get is anything but outdated.



Photo by Jill Michaels

FACULTY SUPPORT

The School of Mines and Metallurgy's first distinguished chair/professorship, The Robert H. Quenon Chair/Professorship in Mining Engineering, was established last year through the leadership of **Robert and Jean Quenon** of St. Louis and gifts from several alumni, friends, and corporations and foundations.



School of Mines and Metallurgy

NEW & EXPANDED LABORATORIES

A generous gift from **J. Richard Hunt, GGph'50**, and his wife, **Shirley**, will establish the J. Richard Hunt Three-Dimensional Seismic Interpretation Laboratory in UMR's geology and geophysics department. This new lab, scheduled to be operational this month, will allow students and faculty to

Photo by Bob Phelan/Photomasters



conduct three-dimensional seismic interpretation — a powerful new method that allows geophysicists and petroleum engineers to more accurately map faults, rocks, sand channels, cave faults, reefs, caves and other subsurface features.

Computer software designed specifically for the mining industry, contributed by **DATAMINE**, also ensures that graduating engineers are adept at using state-of-the-art tools.

- The Moeller Brothers Endowment, established by **Roger Moeller, MetE'44**,

provides for new equipment purchases and equipment maintenance in metallurgical engineering.

SCHOLARSHIP & FELLOWSHIP SUPPORT

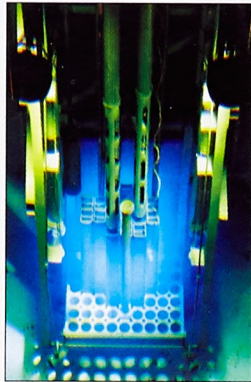
The **Catherine and Robert Brackbill, MinE'42**, Engineering Scholarship Fund established through the MSM-UMR Alumni Association, provides scholarships for petroleum, geological and mining engineering majors.

- A trust established by the late **Donald Hewson Radcliffe, Chem'13**, and his wife, **Dorothy Setnan Radcliffe**, has created a scholarship program in memory of Radcliffe's mother, Josephine Husbands Radcliffe, and provides scholarships to students studying geology and geophysics.

(continued on the next page)

School of Mines and Metallurgy continued...

Photo by Bob Phelan/Photomasters



- The invention of an underground mining machine by **Dale Irwin Hayes**, MinE '12, and **Edna Caswell Hayes**, provides over two dozen scholarships annually for UMR engineering students. The Hayes' niece and trustee of the estate, **Shirley Pearl**, chose to direct the proceeds of the Hayes estate to UMR.

- A scholarship provided by **Thomas A.**, '49 MinE, and **Joan M. Holmes** encourages out-of-state students to attend UMR, extending the university's reach to areas across the country. And the legacy of **V. H. and Amy Shelton McNutt** lives on in the ongoing scholarship support of the McNutt Foundation.

Goals for the future...

The school's purpose is to be a national leader in instruction and research in the subjects that provide for extraction and use of the earth's crustal resources. The seven degree programs seek to recruit to UMR the best undergraduate and graduate students. Alumni and corporate support of the Jackling Institute, the Master Student Fellows Program (a five-year master's degree track) and the Senior Undergraduate Research Experience program will

encourage this recruitment. The School also strives to establish endowed professorships in several areas to attain national recognition for at least one subdiscipline in each program.

The program also seeks to secure and maintain the best research and teaching equipment for its laboratories. By securing funds to acquire and operate electron microscopes for the Metallurgical Engineering program and acquire and maintain a global positioning system in the Mining Engineering program, for example, the School will ensure the relevance between the academic and industrial experiences. Support for graduate assistantships and for student participation in industry conferences and field activities as a complement to academic studies is also desired.

Photo by Dan Seifert/Stonehouse Photography



College of Arts and Sciences

Full Circle Campaign contributors have enabled UMR's College of Arts and Sciences to accomplish the following:

FACULTY SUPPORT

Two newly endowed professorships in the College of Arts and Sciences, will have a profound effect on UMR's ability to attract outstanding students, scholars and researchers to the college.

- The Donald L.

Castleman/Foundation for Chemical Research Endowed Professorship of Discovery in Chemistry will be used to attract a researcher to provide leadership in the discovery of scientific breakthroughs in chemistry.

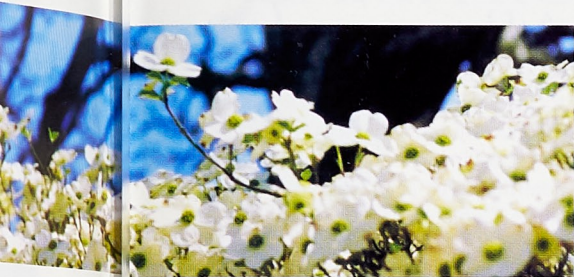
- A bequest pledged by **Norman**, Phys'59, and **Natalie Pond** will create an endowed professorship or chair in physics.

ENDOWED PROFESSORSHIPS

It is vital to the future success of UMR to increase the number of endowed faculty positions. These endowments serve to support the ongoing research and education programs established by the distinguished faculty members attracted to UMR by these positions. Under the current Missouri Endowed Professorship Program, the state of Missouri will match a minimum gift of \$550,000 from a private donor to create proceeds equivalent to a \$1.1 million endowment. Seven new distinguished faculty position have been established during the Full Circle Campaign.

- Keith and Pat Bailey Missouri Professorship in Integrated Product Design and Manufacturing
- Donald L. Castleman/FCR Missouri Endowed Professorship of Discovery in Chemistry
- Mary K. "Jimmie" Finley Missouri Professorship in Computer Engineering
- Vernon and Maralee Jones Missouri Professorship in Civil Engineering
- John and Susan Mathes Missouri Professorship in Civil Engineering
- Cynthia Tang Missouri Professorship in Computer Engineering
- Robert H. Quenon Missouri Professorship in Mining Engineering

Arts and Sciences

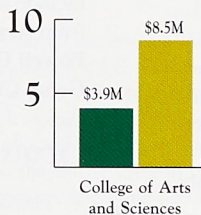


Pond also donated a scanning electron microscope that is being used to study aircraft and rocket exhaust particles, and an ultra-high vacuum pumping and chamber system that is being used to study magnetic alloy films.

SCHOLARSHIP SUPPORT

- **Lois**, Psyc'86, and **Jim**, CE'54, **Highfill** have established an endowed scholarship for psychology and engineering management students, in addition to one Lois established earlier for psychology students. Also in the psychology department, **Catherine Jenks** recently added to the Catherine G. and William S. Jenks Scholarship.

- **Gary Havener**, Math'62, continues to add to his mathemat-



ics scholarship, making it one of the largest in the college.

- An endowed scholarship was established for history students by Judge **John Wiggins**, Hist'70.

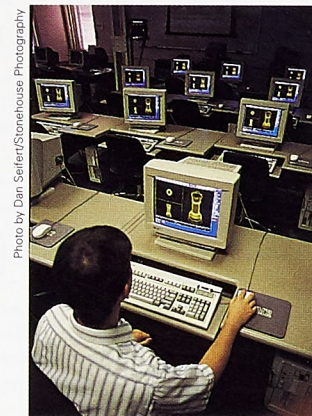
- Two scholarships were established through the MSM-UMR Alumni Association for computer science students, one by **Aaron Cook**, CSci'77, and the other by **Rex Widmer**, CSci'72.

- **Ellen Woodman Doll**, Phys'33, added to the physics scholarship named for her father, L.E. Woodman, the chair of physics from 1920-49. Also in the physics department, **Charles Rice**, Phys'50, plans to fund physics scholarships and fellowships for the next five years.

- The Washington School Reunion has established the F.W. Cooke Grants for Math and Science Scholars with support of family and friends of Dr. F.W. Cooke, the fourth African American flight surgeon in U.S. Air force history. Heartland's Alliance for Minority Participation (HAMP) will match the scholarship money.

LABORATORY FACILITIES

The McDonnell Douglas Software Automation Laboratory has made the latest software design tools available to UMR students. Software packages donated by Informix and Texas Instruments run on hardware donated by McDonnell Douglas (now Boeing), to ensure that computer science, electrical and computer engineering, and management systems students have hands-on experience using relational and object-oriented databases. In addition, **Paul Grayson**, CSci'74, provided graphics software for laboratories throughout the computer science department.



Goals for the future...

Each department in the College of Arts and Sciences hopes to fund more scholarships so that all students who have the desire and the ability will be able to attend UMR.

Computer science and management systems seek to endow distinguished professorships in software engineering and in systems integration. An endowed professorship in human-computer interaction will assist the psychology department.

UMR will expand its biological sciences department (formerly life sciences) to offer course work crucial to biotechnology, biochemistry, environmental science, civil engineering, and the pharmacological and medical fields.

The Writing Across the Curriculum program offers peer tutoring for UMR students and workshops for students and faculty for collaborative learning and writing opportunities. More satellite tutoring stations, funds for tutors, and funds for additional software and training will make its offerings even more effective in its goal to reach all students on campus.





Alumni Association

The MSM-UMR Alumni Association's goals for the *Full Circle Campaign* are to increase support for student financial aid, program enrichment, facilities/equipment/campus beautification, and operations, as well as unrestricted funds.

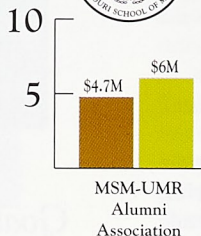
Excellent progress has been made in each of these areas toward increasing support to the campus. The association's directors are very grateful for the support shown by those individuals who have chosen to make their gifts to the *Full Circle Campaign* through the association and its Annual Fund.

Major gifts to the MSM-UMR Alumni Association during the *Full Circle Campaign* include a prominent gift to the Annual Fund from **Lloyd Reuss**, ME'57, an estate gift from **Wayne**, MetE'37, and **Helen Frame**, a major planned gift from **Kent**, CerE'60, and **Joan Weisenstein**, and a pledge from **Zeb Nash**, ChE'72, establishing the Georgia M. Nash Endowed Scholarship Fund.

ALUMNI ASSOCIATION SCHOLARSHIP FUNDS endowed by gifts from **Gerry**, ChE'59, MS ChE'63, and **Jeannie Stevenson**, for chemical engineering students; **James**, ChE'66, and **Donna Bertelsmeyer** for members of Lambda Chi Alpha fraternity; **Robert**, MinE'42, and **Catherine Brackbill**, for petroleum, geological or mining engineering students; **Russell Gund**, EE'40, for electrical and computer engineering students; **Charles Copeland**, ME'62, for mechanical engineering; **John**, EE'67, MS EE'68, and **Carol Wolf**, EE'67, for electrical engineering students; and **Herman Fritschen**, CE'51, for civil engineering students.

IMPROVEMENTS IN CAMPUS FACILITIES

include renovation of Bullman Multipurpose Building provided by the Class of '49; basketball coaches' offices provided by **Armin and Norman Tucker**, both MinE'40; and signs for Castleman Hall and campus directory signs provided by numerous gifts to the Annual Fund.



PROGRAM ENRICHMENT ENDOWMENTS

created by **Robert**, ME'51, MS ME'52, and **Dotty Wolf** for metallurgical engineering; the Miner Music Section for performing arts programs; Golden Alumni for the Golden Alumni Reunion; the Class of '42 for outstanding teacher recognition; **George Baumgartner** for mechanical engineering; and **Beverly Moeller**, wife of **Roger Moeller**, MetE'44, MS MetE'47, for the international speakers program.

Athletics

The athletic department has focused its fund-raising efforts on endowing new grants-in-aid and scholarships to attract qualified, high-achieving student-athletes, as well as expanding current grants-in-aid and scholarships.

The recent \$1 million gift from **Keith**, ME'64, and **Pat Bailey** will go a long way toward helping student-athletes at UMR. Recent gifts established through the MSM-UMR Alumni Association for athletics at UMR include scholarship fund gifts from **Armin Tucker**, MinE'40; **Powell Dennie**, PetE'40; and **Gene**, CE'53, and **Ann Edwards**.

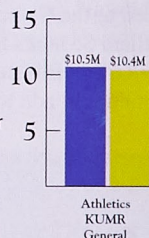
Goals for the future...

The department is seeking support to improve the facilities and equipment for intercollegiate athletics, intramurals and recreation. These include gymnasium bleachers, an all-weather track, outdoor lighting, and public-address systems.



GENERAL PROGRAM SUPPORT

- The UMR Multicultural Center became a reality through a gift of a building from Southwestern Bell. The center houses offices for several student groups and the Multicultural Education Support Program, and is open to all UMR students.
- The new Recreation and Intramural Center provides facilities for intramural basketball, racquetball, badminton, tennis, indoor track, volleyball and squash. The Parents Association assisted in fund-raising efforts by selling individual bricks inscribed with the donors' names to form the entrance walkway.
- The Campus Performing Arts Program has continued to grow and flourish since an endowment established in 1991 provided funds to develop a seasonal series. A recent bequest of \$500,000 will ensure ongoing support for quality programming.
- Public radio station KUMR, recently awarded the prestigious Corporation for Public Broadcasting Award for Excellence, brings the voice of UMR to listeners around the region (and across the country through broadcast of UMR's own "We're Science").



Goals for the future...

- The University Center will be renovated in 2000 to incorporate all university center functions under a single roof. UMR students passed a \$12 million bond issue in 1998 to provide an expanded facility for meetings, meals and lounging for students, faculty, staff and alumni. The cost of the facility will add significantly to students' fees for the next 15 years, so alumni and friends are encouraged to contribute to the project.

CAMPAIGN LEADERSHIP GIFTS



Lester Birbeck, '50
Retired, Amoco Petroleum
Houston, Texas

Lester Birbeck's gift of \$230,000 has endowed the Lester Birbeck Endowed Scholarship to benefit students from small Missouri high schools. Birbeck also has left an estate gift to UMR with the intent to fund the Lester R. Birbeck Endowed Professorship in the

School of Mines and Metallurgy.



Fred, '55, and June Kummer
Founder, Chairman, President
and Treasurer HBE (Hospital
Building and Equipment) Corp.,
St. Louis

Former University of Missouri Curator Fred S. Kummer and his wife, June, have pledged \$1.25 million to help fund the renovation and new addition to the Butler-Carlton Civil Engineering Building. The Kummers issued the pledge of \$250,000 per year over the

next five years as a challenge to other UMR civil engineering graduates.



S. Allan, '30, and
Vivian Stone

William, '33, '34 and Viola Coghill
William and Gertrude Hatfield
S. Allan, '30, and Vivian Stone (at left)

The Coghills, Hatfields and Stones all remembered UMR in their estate planning, resulting in three new scholarship endowments. The William W. Coghill Endowed Scholarship in Engineering, established with \$550,000, will provide funds for students who are enrolled in an engineering program. With \$800,000, the William Paul Hatfield Scholarship in Civil Engineering was established by Gertrude Hatfield to perpetuate her late husband's love of the UMR campus and civil engineering. An alumnus of

Washington University, Mr. Hatfield taught at UMR in the 1940s. "Stoney," a past president of the MSM-UMR Alumni Association, and Vivian Stone established the Stone Scholarship Loan Fund with a bequest of \$700,000 to benefit mining or metallurgical engineering students of exceptional character and outstanding scholarship.



Norman, '59, and Natalie Pond
Founder, CEO and President
Intevac Inc., Santa Clara, Calif.

Norm and Natalie Pond recently pledged a deferred gift of approximately \$750,000 for the Norman and Natalie Pond Endowed Professorship in Physics. Pond also gave the physics department a scanning electron microscope through his company, Intevac Inc., to aid student and faculty research.



James, '66, and Donna Bertelsmeyer
Founder, Chairman and Chief Executive
Officer, Heritage Holdings Inc., Tulsa,
Okla.

Jim and Donna Bertelsmeyer have pledged \$400,000 toward the James E. & Donna C. Bertelsmeyer Endowed Scholarship Fund. The fund will provide approximately \$20,000 annually in scholarship support through the MSM-UMR Alumni Association. The scholarship will encourage outstanding

graduating high school students with significant financial need to attend UMR.



Keith, '64, and Pat Bailey
Chairman of the Board
The Williams Companies Inc.
Tulsa, Okla.

Keith and Pat Bailey have donated \$1 million to create a scholarship for first- and second-year students pursuing degrees in engineering and participating as members in good standing of vari-

ety intercollegiate athletic teams. The Baileys' gift is the largest single cash gift ever received from a living alumnus. Bailey participated in varsity football and basketball while a student at MSM-UMR. Previously, the Baileys established a Missouri Endowed Professorship in Integrated Design and Manufacturing. The Baileys also continue their support of a multitude of other campus programs through their annual gifts.



Donald Radcliffe,
'13, and Dorothy
Radcliffe Dee
Founder,
Radcliffe Oil Co.

UMR received a \$4 million trust established by the late Donald

Radcliffe to establish the Josephine Husbands Radcliffe Geology Scholarship in memory of his mother. Radcliffe, who died in 1959, set up the trust to benefit his wife, Dorothy, who later married John Dee. When Dorothy Dee died in 1996, interest from the trust came to UMR.

Previously highlighted leadership gifts:

- Robert, '42, and Catherine Brackbill
- Fred, '41, and "Jimmie" Finley
- Don, '60, and Rosemary Gunther
- Dr. Shirley Pearl, niece of Dale Irwin Hayes, '12, and Edna Caswell Hayes
- Vernon, '53, and Maralee Jones
- John, '67, '68, and Susan Mathes
- Gerry, '59, MS'63, and Jeannie Stevenson
- Cynthia Tang, '85



Booking good

'New chapter begins for library

By Marianne Ward mward@umr.edu

Photos by Bob Phelan/Photomasters

Jean Eisenman, director of library and learning resources: "Students see libraries as more than a place to sit and study."



S h h h ! Quiet, please.

For decades, these words echoed among the stacks of libraries, but they probably won't be heard much — if ever — around UMR's newly renovated Curtis Laws Wilson Library. The library sports not only a new look, but a new attitude as well. It's still the place where students can find solitude to study, but now it's also the place where they can study in groups, hold meetings or browse the Internet in the computer lab on the main floor.

Gone are the original bright orange and lime green, 1960s-style chairs arranged on cold, hard tiles. In their place are green, mauve and blue furnishings in a classy yet relaxed style, resting on carpeting that not only reduces noise but also serves as a welcome mat.

"Especially in the lounge areas, we wanted to create a club-type atmosphere where students can sit back, relax and read just for pleasure," says **Jean Eisenman**, director of library and learning resources. "We want the library to welcome students and feel warm, like a living room." It's a new trend in library design, but one that Eisenman believes it is here to stay.

"Students see libraries as more than a place to sit and study," she says. They want a library to be a cross between a traditional library, a computer lab and a big-city bookstore. That's the mix the architectural firm, Peckham, Guyton, Albers and Veits of Kansas City; the interior designers, Answers Inc. of St. Louis; and general contractors CSE Enterprises of Rolla, have helped create, minus the cappuccino, of course.

"I am delighted with it, and from the reactions of students, staff and faculty, we got the right mix," Eisenman says. "People wander until they find the spot that is most comfortable for them, and then tend to come back to that spot over and over again."

Major Changes

Of the \$2.9 million in upgrades, the new 58-foot-long comprehensive front service desk and lounge

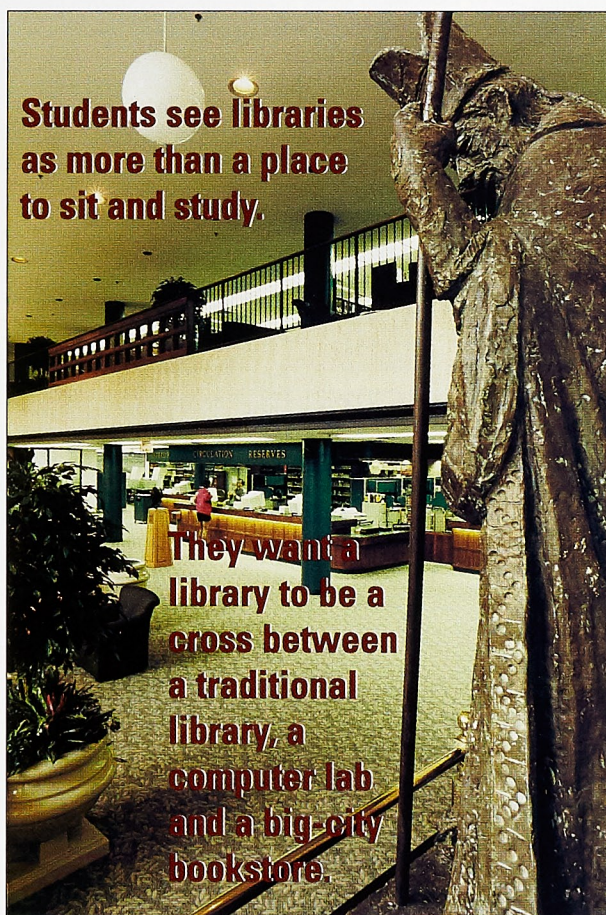
furnishings evoke the most "ooohs" and "aaaahs." But it is the lighting that catches Eisenman's eye.

"When we were planning the lighting, everyone kept telling me, 'The lighting is going to be too bright, it's going to knock your eyes out,' but it really has been wonderful," Eisenman says. "It has been a pleasant surprise."

Improved lighting and noise control, and a better heating and cooling system drove renovations on the 31-year-old, tan brick structure.

Other major changes include:

- more power and data capabilities
- new work stations for multiple-student use, including ones with data-ready cables and power outlets for laptops
- two large conference rooms for students, staff and faculty
- several small-group meeting spaces for students working on team projects
- enhanced study space
- upgraded facilities to meet Americans with Disabilities Act requirements
- added restrooms for women



Sacrifices

The renovation required a few sacrifices. The wider aisle widths specified by the American with Disabilities Act meant removal of a large number of volumes from the library's book and journal collection. The volumes

Booking good continued...



were relocated to the University of Missouri Library Depository, a four-campus storage facility located in Columbia.

"Even without the renovation, we were looking at 75,000 to 100,000 volumes being moved to the university's depository in Columbia because the stacks were overcrowded," Eisenman says. "An additional 50,000 to 75,000 were moved to accommodate the ADA guidelines."

The 150,000 volumes are not lost to UMR's patrons, however. They are just a "courier run" away.

"Our goal is to get a book returned here within 24 hours, but it may take as long as 48 hours because they only retrieve books at the depository twice a day," Eisenman says. "And, because the books are stored at a lower temperature and low humidity, they must go through a climatization process before being shipped."

Walking around the library today, Eisenman feels all the sacrifices have been worth it. Not so long ago, during the worst days of construction, staff members would have to grab a flashlight, trudge down the stairs, cross construction lines and search for books under protective plastic sheeting while jackhammers pounded away in the background.

"Despite the inconvenience, everyone was patient and understanding throughout the process," Eisenman says. "It was remarkable."

As construction on the main level reached completion this summer, a construction crew member stopped Eisenman. "Is everything to your specifications?" he said with a salute and a smile, knowing the answer.

"Yes, it is," Eisenman said.

Three months later she's still saying, "Yes!" And no one is telling her to be quiet.

MASTER PLANNING

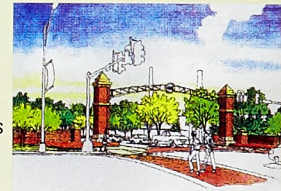
Zone offense and defense

Campus planners may be seeing circles before their eyes for the next 25 years. UMR's latest campus master plan calls for UMR to adopt a zoning approach, which relies on concentric circles, to guide future planning. Unveiled in November 1997, "A New Vision" was developed by Dickinson, Hussman Architects in St. Louis. The center ring focuses on academic buildings and the middle ring on parking. Housing, recreation and services occupy the outer ring.

During the next five years, major components of the plan include:

UMR to get its own arches

To encourage more pedestrian traffic, four major points of entry, including an arch over 14th Street at the Highway 63 intersection, will designate campus perimeters. Other key points of entry will be at 10th and Bishop, 11th and Pine and 16th and Pine. Pedestrian malls also will be added.



A civil facelift



Expanded curriculum is the driving force behind the Butler-Carlton Civil Engineering Building addition. UMR's environmental engineering focus will find room to expand and grow in a field that is doing the same.

Student union

University Center-East will expand and University Center-West will be razed. The \$12 million plan will double UCE's size and consolidate all student services into one building.

Back to the basics

Renovations are slated for the Basic Engineering Building, the Mechanical Engineering Building and the Mechanical Engineering Annex.

Paving the way

Additional parking will be added north of Emerson Electric Co. Hall, when the Electrical Engineering Annex and apartments are razed.

A glimpse into the crystal ball—

Plans for the next 25 years call for:

- creating a combination visitors center and basic engineering building
- expanding and uniting the Engineering Research Laboratory and Graduate Center for Materials Research
- renovating and expanding the Physics Building
- razing a portion of the Mechanical Engineering Annex

FACT
Today UMR has
83 buildings with
2 million gross
square feet and
1.3 million net
assignable
square feet.

FACULTY IN THE NEWS

Congratulations to these UMR faculty:

Nicholas Tsoulfanidis, associate dean of the School of Mines and Metallurgy and professor of nuclear engineering, who was named a Fellow of the American Nuclear Society.

Venkat Allada, assistant professor of engineering management, who received the Outstanding New Faculty Award from American Society for Engineering Education's Midwest Section. Allada also was one of 13 individuals selected by the Society of Manufacturing Engineers (SME) as a Dell K. Allen Outstanding Young Manufacturing Engineer of 1998.

Franklin Y. Cheng, Curators' Professor of civil engineering, who received the 1998 State-of-the-Art Civil Engineering Award from the American Society for Civil Engineers in July.

Don H. Madison, professor of physics, who was named a Curators' Professor of physics during May commencement ceremonies.

Roger A. LaBoube, professor of civil engineering, who was named Distinguished Teaching Professor of civil engineering during May commencement ceremonies.

Chancellor Medal honors Calvin Ochs' contributions to UMR

For quite a few years now, **Calvin M. Ochs**, ME'49, has been bending the ears of state lawmakers in his hometown of Jefferson City, Mo., on behalf of UMR. During May commencement, Ochs received the UMR Chancellor Medal for his efforts.



Ochs, the retired manager of engineering and maintenance at Chesebrough Ponds in Jefferson City, is also a vice president of the MSM-UMR Alumni Association.

A member of the alumni association board of directors since 1991, Ochs chairs the association's legislative committee. He has lobbied on behalf of several UMR projects, including state support for the recent addition to the electrical engineering building, Emerson Electric Hall Co., and for the Butler-Carlton Civil Engineering Building renovation and addition campaign.

The Chancellor Medal is awarded to individuals who have contributed to UMR's well being, growth and development.

Commencement: Professional degrees awarded to alumni

Software entrepreneur **Cynthia Tang**, Econ'85, spoke about the importance of giving back to the campus during May's commencement ceremony. And then UMR gave Tang, president of Insight Industries in Platteville, Wis., its highest honor, the honorary doctorate.

These 13 other alumni were honored during commencement, receiving professional degrees:

- **John D. Baumgardner**, Phys'63, of Holland, Mich., chairman and chief executive officer of Donnelly Corp.
- **Robert E. Benezette**, Econ'71, EMgt'72, MS EMgt'73, of Lansing, Mich., a program manager for General Motors.
- **Jerome T. (Jerry) Berry**, CE'49, of Rolla, a retired engineer and special assistant for mapping requirements for the U.S. Geological Survey.
- **Lucien M. Bolon Jr.**, CE'59, of Lee's Summit, Mo., retired from the Bureau of Public Roads/Federal Highway Administration.
- **Michael E. Bray**, ME'70, of Sudbury, Mass., senior vice president of the electric business unit of the Long Island Lighting Co. of Worcester, Mass.

- **Dan H. Case**, CSci'74, of Duluth, Ga., president and general manager of Glenayre Technologies' Integrated Network Group.
- **Sidney J. Green**, ME'59, of Salt Lake City, chairman and founder of TerraTek Inc., a geotechnical engineering company.
- **William A. Henning**, MetE'61, of Naperville, Ill., vice president of technology for Miller and Co. of Rosemont, Ill.
- **Robert B. Hopler**, MGeo'54, MS MinE'61, of Salt Lake City, retired as manager of corporate technical services for Dyno Nobel Inc..
- **G. H. "Nez" Mohajir**, PetE'67, of Overland Park, Kan., chairman and chief executive officer of Mohajir and Associates Inc.
- **Frederick L. Newton Jr.**, EE'69, of Watsonville, Calif., chairman and founder of Trinton Elics International Inc.
- **Kurt S. Priestler**, EE'73, of Greer, S.C., president of Computer Dynamics Inc. and CDI Sales and Applications Inc.
- **Roger F. Truitt**, ChE'71, of Dallas, Texas, president of ARCO Products Co. of Plano, Texas.

Academy Awards

Academies in four disciplines — chemical engineering, civil engineering, electrical engineering and the School of Mines and Metallurgy — inducted new members in April.

CIVIL ENGINEERS

Inducted into the UMR Academy of Civil Engineers were:

- **Richard J. Barr**, CE'61, of Kirkwood, Mo., chief executive officer of The Clayton Engineering Co. of St. Louis.
- **Henry E. Brown**, CE'68, of Cincinnati, Ohio, director of engineering global product supply for Procter & Gamble Co.
- **Albert L. Kerr**, CE'64, MS CE'72, of Overland Park, Kan., president and co-founder of Kerr Conrad Graham Associates of Overland Park.
- **James T. Lovelace**, CE'60, of Festus, Mo., chief of the hydrologic and hydraulics branch of the U.S. Army Corps of Engineers' St. Louis District in St. Louis.
- **William R. Montgomery**, CE'58, of St. Louis, president and founder of William R. Montgomery & Associates Inc. of Maryland Heights, Mo.
- **Bryan A. Stirrat**, CE'67, of Diamond Bar, Calif., president and co-founder of Bryan A. Stirrat & Associates of Diamond Bar.
- **David A. Visintainer**, CE'71, MS CE'75, of St. Louis, director of public utilities and water commissioner for the City of St. Louis Water Division.

MINES AND METALLURGY

Inducted into the UMR Academy of Mines and Metallurgy were:

- **Melvin E. Nickel**, MetE'38, of Chicago, Ill., president and founder of Melvin E. Nickel and Associates Inc.
- **Clinton A. Clark**, MetE'63, of Morristown, N.J., president of Ironwood Equity Inc.
- **Donald H. Falkingham**, PetE'41, of Tulsa, Okla., managing director of Hydrocarbon Development for Russia, Central Asia and Eastern Europe for McDermott International Inc.'s Engineering and Industrial Group.
- **Robert L. Keiser**, EE'65, of Dallas, Texas, chief executive officer, chairman and president of Oryx Energy Co.
- **Nancy C. Scofield** of Rapid City, S.D., retired in 1991 from South Dakota State School of Mines and Technology.
- **Thomas J. O'Keefe**, MetE'58, PhD MetE'65, Curators' Professor of metallurgical engineering and senior

research investigator in UMR's Graduate Center for Materials Research.

- **Richard Elwin Cole**, MetE'47, of Richmond, Va., retired vice president and general manager of the Primary Metals Division of Reynolds Metals Co.
- **Robert E. Peppers**, MetE'50, of Clermont, Fla., retired vice president of smelting for Fluor Corp.
- **Roy R. Shourd Jr.**, PetE'50, of Houston, Texas, retired executive vice president of Drilling and Production for Schlumberger Oil Well Surveying Co.
- **Robert P. Schafer**, PetE'52, MS PetE'53, of Clifton, Texas, retired executive vice president of LaRue, Moore and Schafer.
- **Rex Alford**, PetE'40, of Houston, Texas, retired as manager of Corporate Engineering for Conoco Inc.

CHEMICAL ENGINEERS

Inducted into the UMR Academy of Chemical Engineers were:

- **Harvey Barnett Jr.**, ChE'43, MS ChE'50, of New York, retired research associate for Corning Inc. of Corning, N.Y.
- **Glenn Eldon Brand**, ChE'39, MS ChE'48, of Steelville, Mo., retired engineering group leader of Rockwell International of Los Angeles.
- **Bipin N. Doshi**, ChE'62, MS ChE'63, of Mishawaka, Ind., president, chief executive officer and chairman of Schafer Gear Works Inc. of South Bend, Ind.
- **Veo Peoples Jr.**, ChE'70, of St. Louis, founder of Peoples L.L.C. of St. Louis.
- **Jorge M. Rodriguez**, ChE'65, MS ChE'66, PhD ChE'70, of San Juan, Puerto Rico, vice president of operations for Bacardi Corp. of San Juan.
- **Walter T. Schrenk**, UMR professor emeritus of chemical engineering (posthumous award).

ELECTRICAL ENGINEERING

Inducted into the UMR Academy of Electrical Engineering were:

- **William L. Krieg**, EE'69, of North Ogden, Utah, founder of several Mexican manufacturing operations.
- **Paul A. Ray**, EE'63, MS EE'65, of Edmond, Okla., recently retired director of aircraft and support with Boeing Aerospace Operations at Midwest City, Okla.
- **Donald W. Shaw**, MS EE'71, MS EM'78, of Jefferson City, Mo., general manager of Central Electric Power Cooperative in Jefferson City.
- **John F. Koepfer**, EE'66, of St. Louis, executive director of the Metropolitan Sewer District of St. Louis.
- **Anthony H. Derhake**, EE'69, of Brighton, Mich., the Century brand manager for Buick Motor Division of General Motors Corp.

- **Walter Philip Leber**, MinE'40, of Palm City, Fla., retired vice president of Harza Engineering Co. International of Chicago.
- **Dale I. Hayes**, MinE'12, former senior vice president and general manager of the Hidden Splendor Mining Co. of Salt Lake City (posthumous).
- **Spencer Allan Stone**, MinE'30, former chief executive officer and chairman emeritus for Deister Concentrator Co. (posthumous).
- **Lawrence Worth Casteel**, MinE'38, former manager of St. Joe Mineral Corp.'s Southern Missouri Mining and Milling Division (posthumous).
- **Amy Shelton McNutt**, the widow of Vachel H. McNutt, for whom UMR's mineral engineering building is named (posthumous).



Shaping the Future

Changing the World

Making a Difference

MSM-University of Missouri-Rolla

Educating Leaders

engineering," was awarded on March 5 to Paradyne Corp. Gnanramani is listed on the patent as the inventor.

Although the method relates primarily to engineering, ergonomics, reliability and information systems, practically any business or organization can use it to determine the feasibility of a product or service, Ghahramani says. AT&T and its spin-off firms have incorporated the process into a software program and now use it in all of their engineering processes.

Dale E. Stone, the chief information officer and chief technical officer for architecture for AT&T's CCS business unit, notes that Ghahramani's method was one of the top inventions within CCS and Bell Laboratories.

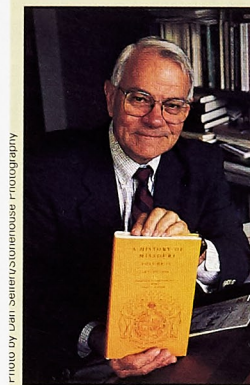


Photo by Jeff Sellen/Sturtevant Photography

Professor's book wins statewide writing award

Historian **Lawrence O. Christensen's** knack for telling the story of Missouri's common folk has earned him a share of Missouri Conference on History's annual book award. This year's award went to "A History of Missouri Volume IV, 1763 to 1919," co-written by Christensen, a Distinguished Teaching Professor of history at MUR, and Gary R. Kremer, a professor of history at William Woods University in Fulton. The two received the award April 17 in Columbia.

The 296-page hardback, published in June 1997, is the last in a five-volume "A History of Missouri" series to be published by the University of Missouri Press. Christensen and Kremer's volume focuses not only on prominent individuals, but also typical Missourians.

"We tried to capture the fullness of life as it was lived by

real Missourians, without neglecting the economic and political changes of the period," Christensen says. To achieve that goal, Christensen and Kremer studied the personal papers of politicians, collections of private letters, diaries, newspapers from the period and documents in the State Archives in Jefferson City.

Campus News

Academies in four disciplines
and the School of

CIVIL ENGINEERS

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- **Henry E. Brown**, CE'68, of Cincinnati director of engineering global product Procter & Gamble Co.
- **Albert L. Kerr**, CE'64, MS CE'72, of Park, Kan., president and co-founder Conrad Graham Associates of Overland Park, Kan.
- **James T. Lovelace**, CE'60, of Festus director of the hydrologic and hydraulics branch U.S. Army Corps of Engineers' St. Louis District.
- **William R. Montgomery**, CE'58, of St. Louis president and founder of William R. Montgomery & Associates Inc. of Maryland Heights.
- **Bryan A. Stirrat**, CE'67, of Diamond Springs president and co-founder of Bryan A. Stirrat Associates of Diamond Bar.
- **David A. Visintainer**, CE'71, MS CE'72, of St. Louis director of public utilities and environmental engineering missioner for the City of St. Louis.

MINES AND METALLURGY

Inducted into the UMR Academy of Mines and Metallurgy were:

- **Melvin E. Nickel**, MetE'38, of Chicago, Ill., president and founder Melvin E. Nickel and Associates Inc.
- **Clinton A. Clark**, MetE'63, of Morristown, N.J., president of Ironwood Equity Inc.
- **Donald H. Falkingham**, PetE'41, of Tulsa, Okla., managing director of Hydrocarbon Development for Russia, Central Asia and Eastern Europe for McDermott International Inc.'s Engineering and Industrial Group.
- **Robert L. Keiser**, EE'65, of Dallas, Texas, chief executive officer, chairman and president of Oryx Energy Co.
- **Nancy C. Scofield** of Rapid City, S.D., retired in 1991 from South Dakota State School of Mines and Technology.
- **Thomas J. O'Keefe**, MetE'58, PhD MetE'65, Curators' Professor of metallurgical engineering and senior

MSM-University of Missouri-Rolla

Educating Leaders

For the past 127 years, MSM-UMR has helped shape the lives of tens of thousands of men and women.

It has made a lasting difference in our world. Through your generosity, our alumni and friends will, in turn, make a lasting difference to this university. You have the opportunity to make a profound and lasting contribution to our community, our world and our future. Our vision and vitality have always been and continue to be tied to our alumni and friends.



smelting for Fluor Corp.

- **Roy R. Shourd Jr.**, PetE'50, of Houston, Texas, retired executive vice president of Drilling and Production for Schlumberger Oil Well Surveying Co.
- **Robert P. Schafer**, PetE'52, MS PetE'53, of Clifton, Texas, retired executive vice president of LaRue, Moore and Schafer.
- **Rex Alford**, PetE'40, of Houston, Texas, retired as manager of Corporate Engineering for Conoco Inc.

chairman emeritus for Deister Concentrator Co. (posthumous).

- **Lawrence Worth Casteel**, MinE'38, former manager of St. Joe Mineral Corp.'s Southern Missouri Mining and Milling Division (posthumous).
- **Amy Shelton McNutt**, the widow of Vachel H. McNutt, for whom UMR's mineral engineering building is named (posthumous).

A patented plan for business success

Photo by Bob Phelan/Photomasters

Too bad Bahador Ghahramani's patented formula for business success wasn't around when Ford decided to build the Edsel. And Coke certainly could have benefitted from the formula before launching its "New Coke."

Those companies learned the hard way that traditional product planning and research methods don't always pan out in the marketplace. But now, AT&T and its spin-off companies Paradyne, Lucent Technologies and NCR won't have to learn that hard lesson, thanks to Ghahramani's efforts.

Ghahramani (pictured at right), an associate professor of engineering management, invented a process, now patented, on how to evaluate every phase of a product's development — from conception to marketing.

The process incorporates some 40 complex formulas to assess the system for developing a product or service. It is, Ghahramani says, the first "objective and quantifiable way of measuring quality" at every stage. The process also could cut the cost of getting a product or service to market by as much as 60 percent, he adds.

Ghahramani developed the process while a distinguished member of the technical staff at Bell Laboratories. A patent for the process, titled "A Method for Measuring Usability of a System and for Task Analysis and Re-engineering," was awarded on March 3 to Paradyne Corp. Ghahramani is listed on the patent as the inventor.

Although the method relates primarily to engineering, ergonomics, reliability and information systems, practically any business or organization can use it to determine the feasibility of a product or service, Ghahramani says. AT&T and its spin-off firms have incorporated the process into a software program and now use it in all of their engineering processes.

Dale E. Stone, the chief information officer and chief technical officer for architecture for AT&T's CCS business unit, notes that Ghahramani's method was one of the top inventions within CCS and Bell Laboratories.

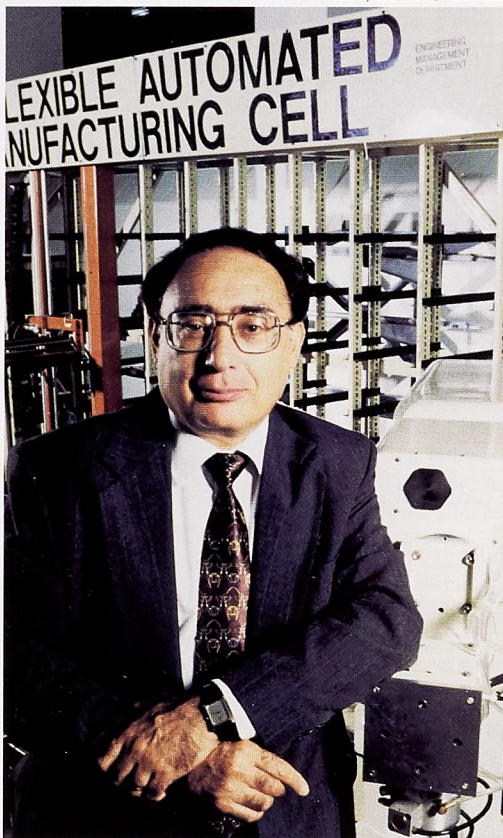
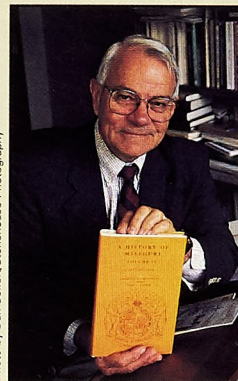


Photo by Dan Seifert/Stonehouse Photography



Professor's book wins statewide writing award

Historian **Lawrence O. Christensen's** knack for telling the story of Missouri's common folk has earned him a share of the Missouri Conference on History's annual book award.

This year's award went to "A History of Missouri Volume IV, 1875 to 1919," co-written by Christensen, a Distinguished Teaching Professor of history at UMR, and Gary R. Kremer, a professor of history at William Woods University in Fulton. The two received the award April 17 in Columbia.

The 296-page hardback, published in June 1997, is the last in the five-volume "A History of Missouri" series to be published by the University of Missouri Press. Christensen and Kremer's volume focuses not only on prominent individuals, but also on typical Missourians.

"We tried to capture the fullness of life as it was lived by real Missourians, without neglecting the economic and political changes of the period," Christensen says. To achieve that goal, Christensen and Kremer studied the personal papers of politicians, collections of private letters, diaries, newspapers from the period and documents in the State Archives in Jefferson City.

Buddies today, students tomorrow

UMR is buddy-ing up to cyber-savvy high school students who'd rather chat over the Internet than over the phone. It's part of UMR's new Internet marketing strategy designed to build stronger relationships with on-line prospects.

Last spring, **Martina S. Hahn** and her colleagues in UMR's office of admission and student financial assistance started using instant messaging technology to tout the campus to prospective students via the Internet.

Instant messaging (IM) programs are similar to one of cyberspace's oldest communication tools, Internet Relay Chat (IRC). Like IRC, IM allows Internet users to engage in real-time communication. Unlike IRC, however, IM lets you communicate one-on-one, rather than in bustling chat rooms. An added feature of IMs is the "buddy list," which lets users build lists of on-line acquaintances. When those Net buddies log on to the Internet, the IM user sees their nicknames flash up on his or her computer monitor.

This may sound Big Brother-ish to you, but IM is all the rage among today's connected teens. "More and more of our prospective students prefer to communicate online," says Hahn, director of admission and student financial assistance at UMR. "The least we can do is learn their language and communicate with them in a style they feel comfortable with."

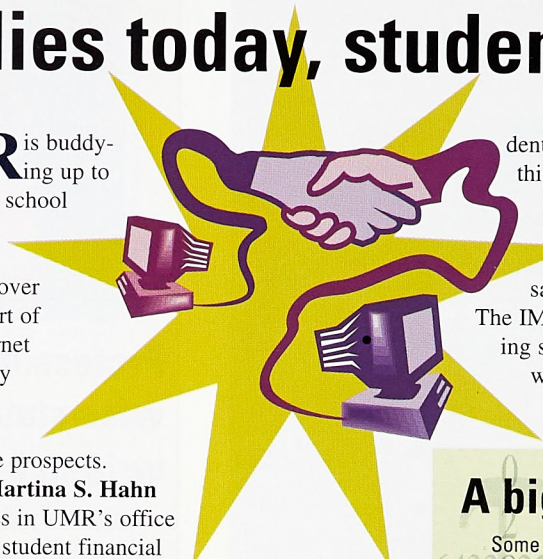
Hahn and her staff use America Online's Instant Messenger, one of dozens of free IM programs available over the Internet, to stay in touch with UMR prospects who have America Online accounts. They've compiled buddy lists of more than 800 AOL prospects and divvied the list among admissions staff members. Now, any time a prospective UMR student on the list logs on to AOL or the Internet, that person's name will pop up immediately on UMR recruiters' computer screens, providing an opportunity for a quick chat.

The UMR admissions staff began this experiment in early March, soon after Hahn came on board as director. Over one weekend, Hahn added 95 prospects to her IM buddy list, and contacted 23 in one afternoon.

"The responses were great," Hahn says. "One prospect wrote, 'I'm flattered that you would take the time for me,' and the brother of another prospective stu-

dent wrote, 'Thank you for taking the time to do this.'"

Hahn expects this recruiting approach to not only meet the needs of the new generation of techno-savvy students, but also to save the campus on long-distance telephone calls. The IM campaign is part of a broader Internet marketing strategy at UMR to make the techno-connection with the country's best and brightest college prospects.



A big slice of Pi

Some people find it tough to memorize telephone numbers. For **Adam Nolte** of Godfrey, Ill., it's as easy as pie. Um, better make that "Pi."

Nolte invents phone numbers to help him remember the digits of Pi — all the way to 215 decimal places. The UMR sophomore's prestidigitation with digits made him the winner of a Pi memorization contest held on campus last spring as part of Mathematics Awareness Week. The contest was sponsored by UMR's student chapter of the Mathematical Association of America.

To win the Pi repeating contest, Nolte wrote from memory the first 215 of digits of the world's most famous irrational number. For his efforts, he won — what else? — a pie from A Slice of Pie, a local pie shop.

Pi, as all MSM-UMR grads know, is the ratio of the circumference of a circle to its diameter. Although $\text{Pi} \approx 3.14$ is used in mathematics classes, it is only an approximation to Pi's true value. In 1767, Johann Lambert showed that Pi is an irrational number — that is, its decimal expansion never ends and never repeats itself. Modern computers have calculated decimal expansions for Pi out to millions of places, but few humans can recall many of the digits beyond 3.14.

Various attempts have been made to develop mnemonic devices to help people remember the digits of Pi. Some remember sentences where each word has the same number of letters as the corresponding digit of Pi. One commonly used sentence is, "How I want a drink, alcoholic of course, after the heavy lectures involving quantum mechanics."

But Nolte's phone-number mnemonic seemed to do the trick. "I try to memorize as many digits of Pi as possible as a mental exercise," he says. "Much of the expansion I remember by stringing together appropriate phone numbers."

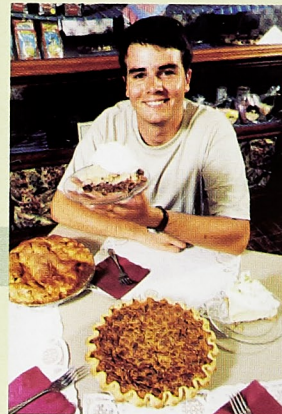


Photo by Bob Phelan/Photomasters

STUDENT TEAMS: RACING, MUCKING, FIGHTING FIRES



Photo by Edmund (Tim) F. Gaffney

• **Racing to a fourth-place finish**, UMR's Formula SAE team (*above*) blew past much of the competition in this year's Formula SAE competition. UMR took fourth-place honors in the national competition of formula-style race cars held May 27-31 at the Pontiac Silverdome in Pontiac, Mich. It was the team's highest finish ever in the event, which involved 75 colleges and universities.

Other top teams:

• **UMR's mucking teams** (*at right*) continued their winning ways this year, with the women's team taking

first place in their division, the men's team taking second, and the coed team finishing first in the first year of the coed event. The UMR muckers hosted the 20th International Intercollegiate Mining Competition in April at UMR's Experimental Mine Facility. The "mucking" competition involves the use of old-fashioned mining methods and hand-held tools to compete in timed events.

• **UMR's Institute of Electrical and Electronics Engineers (IEEE) student branch** won the Fire Fighting Home Robot Contest during the IEEE Region 5 (Southern

Midwest) annual meeting in Fort Worth, Texas, April 17-19. UMR competed against six other colleges and universities from Region 5.

Photo by Jill Michaels



Photos by Bob Phelan/Photomasters

SPACE CAMP

Sixty children ages 10 to 13 launched rockets, designed images on a computer and took a virtual tour of NASA's Johnson Space Center during a three-day Aero-Space Camp at UMR July 14-16.

The camp focused on aeronautics and space flight, and students participated in computer simulations, interactive teamwork projects and hands-on experiences. Activities included star-gazing from the UMR Observatory, an Internet scavenger hunt, student projects, paper airplane and rocket launching contests, and an interactive tour via two-way television with astronaut **Janet Kavandi**, MS Chem '82, at NASA's Johnson Space Center in Houston, Texas.

The camp was sponsored by UMR along with University Outreach and Extension; Extension offices in Crawford, Dent, Gasconade, Maries, Phelps and Pulaski counties; Missouri 4-H; the Children, Youth and Families at Risk Initiative at the University of Missouri-Columbia; and the Missouri Children, Youth and Families project site in Salem, Mo.



KMNR 89.7 FM

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ROCK 89.7 FM

STUDENT STATION KMNR'S LONG, STRANGE TRIP TO AGE 25

By Andrew Careaga (acareaga@umr.edu)

All this machinery making modern music

Can still be open-hearted.

Not so coldly charted, it's really just a question
Of your honesty, yeah, your honesty.

*Rush, "The Spirit of Radio"
From Permanent Waves, 1980*

When he packed up his bags and he took off down the road for UMR in 1972, **David A. Heile** must have thought he was leaving a rock 'n' roll Mecca for a musical wasteland.

After all, Heile was from Chicago, the home of WLS, the Midwest's most influential rock station at the time. Teens throughout Illinois and surrounding states tuned in to WLS legends like John Records Landecker, as he and other deejays played their favorite songs.

The last thing Heile, EE'77, expected to find in Rolla was a halfway decent rock radio station. But the first time he turned his FM dial to the far left and discovered UMR's raucous, low-watt monophonic student station, "I was fascinated with the openness and, frankly, the very coarseness of it."

So he signed up to become a deejay, spent a semester in training, and hit the air with his first show in the spring of 1973.

"I took to it like a duck to water," Heile says, "and probably spent more time at the station than I should

have." Now president of ADI Group, a Milwaukee-based software systems integration firm he co-founded, Heile says his UMR radio days taught him more than how to

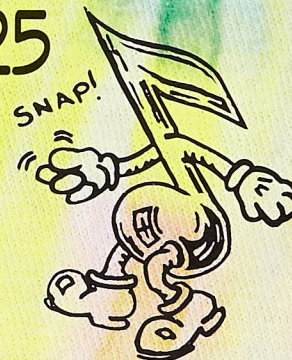
spin discs and segue from song to song. The experience taught him a lot about diversity — the station "was a real melting pot," he says — as well as "tolerance for other people's ideas and viewpoints, their personalities and musical styles."

It's been 25 years since Heile first ventured into the control booth. Since then, musical genres from disco to techno have cavorted across the American pop music scene, and through it all, KMNR has been there to record and reflect these trends (with the possible exception of disco) as they basked in their moments in the spotlight. Today, the station continues to reflect not only the popular interests, but also the diverse musical tastes of a multicultural student body.

"I think the station and the music always reflected the times," says **Bill Ahal**, CE'76, who was a KMNR deejay at the same time as Heile. "It was just this microcosm of the world. It was something the average student could become involved in if he or she chose to ... but it also was the students' station."

(continued on the next page)

◀ *Current KMNR staffers pose outside the station's new studios on 12th Street. Seated from left: Will Vizuete, April Schmidt and Mike Quinn. Second row, from left: Gretchen Schmeling, Patrick Schroeder, C. J. Hammond, Rich Macy and Amy Pousson. Back row, from left: Shira Viswanathan, Leah Ellis, Sean Woods and Ben Bryan. Photo by Bob Phelan/Photomasters*



What's the frequency, Kenneth?

Truckin', got my chips cashed in
Keep truckin', like the do-dah man
Together, more or less in line,
just keep truckin' on



The Grateful Dead, "Truckin'"
From American Beauty, 1970

It's been a long, strange trip for a station that almost wasn't.

As the university began to bring a new 100,000-watt public radio station, KUMR, online in the early '70s, it also took steps to phase out student radio. But the students who ran KMNR's predecessor, KMSM, fought to keep the station on the air.

"The administration was not very much in favor of student radio," recalls **Nick Stanley**, EE'73, MS EMgt'75, one of the student leaders at KMSM at the time.

The station faced several obstacles:

- KMSM's frequency, 88.5 FM, was owned by the university, and had been assigned to KUMR. When the new station went on the air, KMSM would be homeless.
- KMSM also faced an identity crisis as its call letters went west, to Montana Tech.
- To gain the backing of campus administrators, station leaders needed to show student support for the station. "We were told that if we could show that there was truly student support for that station, then they would do everything they could to make sure we got a second station," says **James W. "Jay" Walker**, EMgt'72, KMSM's director of public relations at the time.

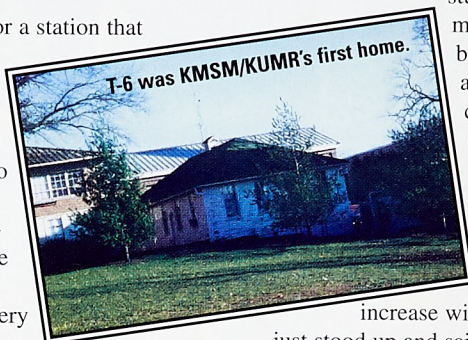
• Technologically, KMSM was sorely out of date. **Bill Tietze**, CerE'73, notes that the students who built the station "scrounged up a 50-watt transmitter" to get it going, then later got their hands on an old Army surplus transmitter. Tietze, Stanley, Walker and other station leaders wanted to get new equipment and switch the station from mono to stereo.

The students took charge to make sure their university had a station that was of the students, by the students and for the students.

"Initially we were told that we couldn't do it," Walker says. "But we set a plan in motion to make it happen, and we went about it in a very positive way.

They contacted the Federal Communications Commission and got FCC approval to use another FM frequency. So the station moved up the dial, from 88.5 to 89.7, and became KMNR.

The students also conducted surveys to demonstrate student support, collecting ballots in the University Center in a discarded wine cask donated



by a St. James vintner. "At one point, we even had a bit of a protest going," says Tietze, who now is vice president of Heater Specialists in Houston, Texas.

The student body rallied around the cause, Tietze says. Armed with their surveys and data from an Arbitron listenership survey — which ranked the student station as the second-most-listened-to station in Rolla, behind AM station KTTR but ahead of another local commercial station, KCLU — Tietze and company asked the university's Board of Curators to increase student fee support for the station from 50 cents to \$1.50 per student. According to Tietze, the curators approved the increase with no discussion. "The president just stood up and said, 'I think this is a good idea,' and they all went along with it," Tietze says.

We don't need no thought control

It's only inches on the reel-to-reel.

And the radio is in the hands of such a lot of fools
tryin' to anesthetize the way that you feel.

Elvis Costello, "Radio Radio"
From This Year's Model, 1978



It's another muggy, quiet summer afternoon in Rolla, and with about 70 percent of the student body gone until fall, chances are not many people are tuned in to **Rich Macy's** "Warm Bathroom Floor" program. The abstract, staccato cadence of techno seems out of place — more appropriate for an all-night rave than a low-key Rolla summer afternoon. But this is KMNR at its free-format best. This is Macy's show, and Macy plays techno, industrial.

He's wearing the black KMNR T-shirt, the front of which features KMNR's familiar "Snap Man" logo, frozen in crosshairs, and the back of which displays a downsized Public Enemy slogan: "It takes a campus of thousands to hold us back."

Like the T-shirts, KMNR has always exhibited a defiant, anti-establishment attitude, staunchly refusing to veer from its free-format philosophy. Today it's one of the few college radio stations in the nation to continue with free-format programming. Such programming was once the norm in college radio. Today, however, even student-run stations are set-



Photo by Bob Phelan/Photomasters

CD Ease

Leah Ellis adds another CD to the playing list. KMNR has over 50,000 titles in their CD collection



Photo by Bob Pheilan/Photomasters

ting into market niches.

Most student stations today play alternative, classic or mainstream rock — the stuff of commercial playlists everywhere. “Radio has become more and more homogeneous across the country,” says a recent KMNR alumna, **Chuck Renner**, GeoE’95, MS GeoE’97. “Since people get most of their exposure to music through the radio, radio playlists determine what artists people hear, and therefore determine what artists become popular and sell records. If you want a chance to hear something different, and don’t want to hear it 40 times a day, stations like KMNR are your only choice.”

With KMNR, you might hear the smooth boogie guitar of John Lee Hooker one day and the belligerent bellowing of Johnny Rotten the next.

“Chances are good that when you tune in to KMNR you’ll hear a musical genre you don’t like,” says Renner. “But chances are also very good that at some point in KMNR’s weekly schedule, there is a deejay playing the music you do like.”

Today, with a record and CD collection of about 50,000 titles, KMNR is more diverse than ever.

Moving in stereo

It’s so easy to fool with the sound

*The Cars, “Moving in Stereo”
From The Cars, 1979.*



The much-awaited transition to stereo happened in a matter of hours in November 1972.

KMNR was still KMSM then. The station’s chief engineer, **Mark G. Fehlig**, EE’73, and Walker and Stanley borrowed a plane owned by Aaron Miles, UMR’s legendary mechanical engineering professor, and flew to Quincy, Ill., to pick up a TE-1 stereo exciter that Gates Radio Co. had donated to the station. While the three were making their flight back to the Vichy airport north of Rolla, KMSM deejays announced the great arrival on the air. According to Walker, the three were greeted by an enthusiastic crowd of students.

The crew and exciter arrived at 8:25 p.m. Monday, Nov. 20, and had the station running in stereo by 12:35 a.m. Tuesday, Nov. 21.

But the transition was not completely flawless. According to Tietze and Walker, Stanley and

(continued on the next page)

RESIDENCE HALL RADIO

Even before KMNR went stereo in 1973, students living in the Quadrangle could listen to a college station in stereo for a time.

Well, it was sort of stereo, if you had two radios, tuned to two different frequencies.

A 10-watt radio station called KMFA broadcast out of the basement of Altman Hall in the late ‘60s through the ‘70s. It could be found at 750 AM. But during **Dave Polakowski’s** days at UMR, the station also broadcast at 600 AM. “So you could tune to the two frequencies and get stereo,” Polakowski says.

But KMFA — stereo or mono — could only be heard within the confines of the Quad. It didn’t have the power to broadcast very far beyond the dormitories.



“Theoretically you could pick it up inside the buildings and a little bit outside,” says Polakowski, ME’74, now a materials engineer in Hewlett-Packard’s home imaging division in Greeley, Colo.

A station with a name like KMFA might be expected to specialize in farm reports. But the station, organized under the aegis of the Men’s Residence Hall Association, was supported by a portion of the MRHA’s student fees and derived its call letters from the initials of the Quad’s four residence halls: Kelly, McAnerney, Farrar and Altman. Polakowski was the station’s program director during the 1971-72 year, and station manager in 1972-73.

“It was pretty much free-format,” he says. KMFA deejays played classical music and show tunes as well as rock’n’roll and pop music. They also broadcast public service announcements. The station was “like an electronic bulletin board, an information link for the dorms,” Polakowski says.

Although KMFA existed alongside KMSM and KMNR, there was no rivalry between the two, Polakowski says. “They were broadcasting to the whole town, and we were broadcasting to 500 people in the dorms, so it wasn’t like we were going to put them out of business or anything.” The two stations often swapped equipment, he adds, and several KMFA deejays, including Polakowski, also worked for KMSM-KMNR.

The station’s deejays were all male, until the university converted McAnerney Hall to a women’s dorm. One of that dorm’s residents, **Dawn E. (Gant) Schuessler**, EngI’74, wanted to get on the air, but technically she wasn’t allowed into the KMFA studios in Altman Hall.

“The room was officially classified as a dorm room, and rules at the time said women couldn’t be in a men’s dorm room,” Polakowski says. So to get around the regulation, “we strung up a microphone out of the hallway and to the stairwell,” where Schuessler was able to stand. She became the first woman to broadcast on KMFA.

Today, a portion of KMFA lives on. Last spring, the Residence Hall Association donated KMFA’s record collection to KMNR.

— Andrew Careaga

Mike Quinn and Patrick Schroeder look through KMFA’s record collection, which was donated to KMNR last spring.



Photo by Bob Pheilan/Photomasters

"IT TAKES A CAMPUS OF THOUSANDS TO HOLD US BACK"

Fehlig had pulled the plug on the old mono board that had been in service since the station's sign-on in 1964, and installed the new equipment. Someone flipped the switch, and nothing happened.

The engineers were all checking wires and scratching their heads when one of the few non-engineering deejays took a look and suggested the obvious non-techie solution: unplug the thing, then plug it back in, and see what happens.

It worked. And the station has been moving in stereo ever since.

Just take them old records off the shelf

I am the morning deejay at WOLD
Playing all the hits for you wherever you may be



Harry Chapin, "WOLD"
From *Short Stories*, 1974

When Heile began his KMNR deejay duties in the fall of 1973, he wanted to try his hand at a "morning zoo" program, a la WLS. Later joined by Ahal, Heile played upbeat pop and rock, music to wake up to. The programs were "a little more yakky" than the later-in-the-day fare — and definitely different from the late-night party music.

Heile and Ahal were influenced by a couple of their KMSM predecessors, **Darrell R. Elven**, ME'73, and **Glenn R. Anderson**, CSci'73, who hosted a chatty program that was popular with the students.

Ahal started out with an evening program, playing from 9 p.m. to midnight, or later on weekends. Now a vice president with McGrath and Associates, a general contracting and construction firm in St. Louis, he describes the morning programming of that era as "something to get people up and going." The night music, however, had more of an edge to it.

"We just put on a show that we thought people would like," he says. "There was never really any consistency to it. I guess that was one of the unique things about the station. There were people who liked it, and there were people who hated it."

KMNR set out to distinguish itself from its forerunner, KMSM.

The station became a focal part of student life in the 1970s. "This was the time of the energy crisis," Ahal says. "Gas prices just skyrocketed, and people

started hanging around campus a lot more on weekends."

"It was a social thing for me," says **Barbara (Whites) Stanley**, Engl'73, who met her husband, **Nick**, at the station. A Rolla native who lived at home while attending college, she hung out at KMNR to get a feel for campus life. "I even took one or two classes a year after graduation just so I could continue to work" at KMNR, she says.

Two American kids growing up in the heartland

The radio is playing some forgotten song

Golden Earring, "Radar Love"
From *Moontan*, 1974



Nick and Barbara Stanley have fond memories of their days at KMNR, and not just because of the music.

Before Barbara met her future husband, she knew him as the voice of a show called "Breakaway." He played the kind of light rock that Barbara liked, and she listened faithfully to his program. One day, she met him, and put the voice with the face. "I realized that guy with the long greasy hair is the voice on the radio," she says.

Barbara was working at the station on her 19th birthday when he showed up with a Sara Lee birthday cake. Thus began a relationship that continues to this day.

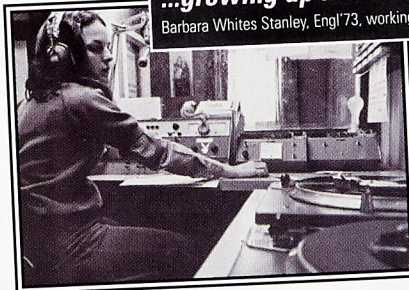
Now president of his own business management consulting firm, Lecom International Limited

(named for the rural Missouri community where the Stanleys lived while in college), Nick joined the radio station's staff in 1970. He started out as a reporter for the KMSM news staff. (Yes, the station had a news staff in those days.) "I enjoyed the reporting, getting out and talking to people," he says.

Even though the station no longer has a news staff, it still provides public service announcements for the campus community. The station also broadcasts special forums of student interest and notices of student and campus events, and other student-oriented programming. And student announcers continue to read wire service stories, as they did in the Stanleys' day. ("No one really listened to us to get the news," Barbara notes, and the same probably holds true today.) After a stint at news, Nick switched over to music, often joining Barbara with her request show. As one of the few female voices on

...growing up in the heartland

Barbara Whites Stanley, Engl'73, working her request show.





radio in those days, Barbara got plenty of calls for requests. Nick would search out the records while she played the songs and took the phone calls.

Working the request show alone was more of a challenge, because of KMNR's funky filing system. But it didn't take long for Barbara to learn how to deal with requests for obscure tunes. "If you'd get a call for some song that wasn't played very much, you'd just put on 'Roundabout,' by Yes. That song was 11 or 12 minutes long, which gave you time to search for the record," she says.

Today, KMNR deejays need only punch a few buttons on a computer to find the location of a CD or album in the station's vast collection.

It's only rock'n'roll, but I like it...

Ch-ch-ch-changes
Turn and face the strange



David Bowie, "Changes"
From Hunky Dory, 1971

Free-format fever hit KMNR hard in the late '70s. "KMNR just loosened up to the max," writes **Dave Obermann**, AMth '78, MS AMth '80, in his personal history of the era, now posted on KMNR's Web site. "No bad feelings, just good tunes and times. Twenty-four hour programming becomes the average, not an exception."

A backlash to the loose format occurred in the early 1980s, when some members of the KMNR executive board pushed for a tighter programming ship. Leaders of that movement claimed the station wasn't reflecting students' tastes for newer music, including top 40 singles.

KMNR deejays rarely played a hit record. They still don't. As current KMNR deejay **Amy Pousson**, a mining engineering major from Houston, Texas, explains: "Rolla is already served by KUMR, KDAY (a top 40 station) and KZNN (a country station). We want to provide something different for our listeners."

The move to format KMNR was short-lived. The leaders of that movement graduated and moved on,

and things returned to normal. Recently, KMNR's leaders rewrote their constitution, inserting language to keep the station free-format.

This ain't no party, this ain't no disco

Check it out
What are you saying
What are you playing
Who are you obeying
day out day in?



R.E.M., "Radio Song"
from Out of Time, 1991

Working at KMNR meant more than just spinning discs (or, these days, CDs). For many former and current deejays, the experience taught them important life lessons.

The experience of getting behind a microphone proved invaluable for Tietze's sales and marketing career. "Just the public speaking aspect of working at the station was an education in itself," he says. "But more than that, it was working with a small group of dedicated people to do great things that made working there so rewarding."

Former chief engineer Renner, who coordinated the station's move in 1995 from the old Army barracks on State Street to its current home, considers KMNR to be a terrific learning environment.

"Simply being a deejay can help a person's communication skills," he says. "I used to have a difficult time speaking in front of an audience, but after spending time talking to an invisible audience and hearing my voice on productions I had made,

(continued on the next page)

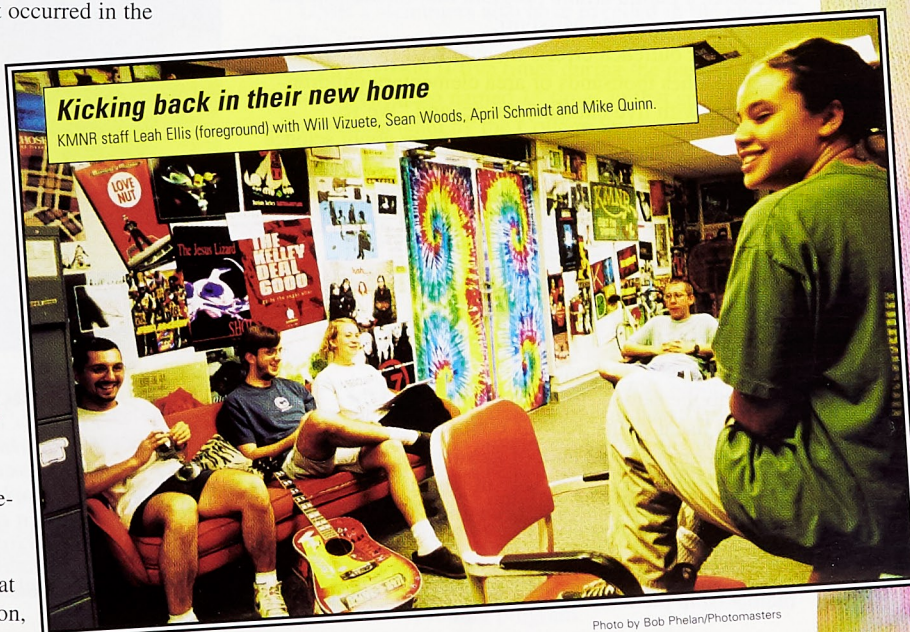


Photo by Bob Phelan/Photomasters

I gained the confidence I needed to speak to a 'real' audience." The experience is also a creative outlet for students. For Pousson, playing the Dave Matthews Band in the KMNR control room is "something different on a campus that is work, work, work. It's a nice release. It is something you can do that has nothing to do with your major."

After a quarter century on the air, the KMNR band plays on. Alumni like Walker occasionally tune in to the station on RealAudio via the World Wide

Tune in, turn on, Web out

Now you can listen to both of UMR's FM stations on the Internet. Just go to these World Wide Web sites, download the free RealAudio software from them, and tune in. **KMNR, 89.7 FM**, <http://www.umar.edu/~kmnr>
KUMR, 88.5 FM, <http://www.umar.edu/~kumr>



Web. "It's a heck of a lot different than it was when I was there," he says. But that's the beauty of student radio, UMR-style. Eclectic, diverse programming is the norm.

And it's probably not nearly as different as today's WLS is from the station of Heile's youth. That WLS is dead; long live "Newstalk 89 WLS," featuring syndicated programs like Dr. Laura Schlessinger and Rush Limbaugh.

As for KMNR, the song, more or less, remains the same.

What a long, strange trip it's been.



Putting the "public" into public radio

Photo by Bob Phelan/Photomasters

kumr is not your average public radio station. For 25 years, the 100,000-watt, non-commercial station has been broadcasting diverse programming throughout south-central Missouri. And it involves its listeners more than most public radio stations.

Founded in 1973, KUMR, like student station KMNR, is celebrating its 25-year anniversary this fall. The station has always been faithful to its public affairs mission, but in recent years it has expanded that role significantly. In recent years the station has added a repeater station in Lebanon, Mo. (at 96.3 FM), expanded to 24-hour-a-day broadcasting, and added Civic Solutions, a public affairs program that focuses on concerns in south-central Missouri.

Its other outreach efforts include KUMR for Kids, which reaches thousands of area elementary children each year with live classical music, and "We're Science," a nationally broadcast program about science and technology. The amazing thing is that KUMR has added these services after campuswide budget reallocations in 1991 reduced the amount of funding the station would get from UMR.

So KUMR went to its supporters — the listeners — and they responded. Listener support for the station has grown significantly in recent years, and KUMR's Charter Society, an organization for major donors to the station, has also strengthened the station's fiscal status. KUMR continues to rely on its listeners for the bulk of its support, and the Charter Society is one way in which KUMR is working with listeners to strengthen the station.

KUMR commemorated its 25 years on the air at its membership picnic held Aug. 28 at Lions Club Park in Rolla.



The faces behind the music

Front row, left to right: Norm Movitz, producer; Janet Turkovic, general manager; Jim Sigler, production manager; PJ Cala, news director. Back row, left to right: Charles Knapp, chief broadcast engineer; Theresa Humphrey, receptionist; Lisa Middleton, administrative assistant; John Francis, "We're Science" producer; and Wayne Bledsoe, host of Bluegrass.

Mullin takes AD post on full-time basis, Grooms tabbed as new swim coach

By John Kean
(jkean@umr.edu)

Mark Mullin, the head swimming coach at UMR since 1985 and the campus' director of athletics since 1992, has stepped down from the swimming position to concentrate full time on the duties as athletics director.

Doug Grooms, who has been an assistant coach in the swimming program since 1992, will take over for Mullin as the head swimming coach. These moves became effective July 1.

"For the past six years, Mark has handled what amounts to two full-time jobs remarkably well," says Wendell R. Ogrofsky, vice chancellor for student and international affairs at UMR. "But with the recent addition of the Recreation and Intramural Center to the Gale Bullman Multi-Purpose Building, and with the launching of our campuswide \$60 million *Full Circle Campaign* last fall, the athletic department needs someone who can devote all of his energies to directing the programs. I'm looking forward to having Mark focus on directing the overall activities of the department."

As part of this administrative reorganization, the department of intercollegiate and intramural athletics and recreation also will oversee the UMR Golf Course, which had been part of the university's division of administrative services, and the campus' cheerleaders and dance corps. Athletics is part of UMR's division of student and international affairs.

Mullin coached the Miner swimming program for 12 seasons, leading it to a record of 89-26 in dual meets and eight regional championships. Last year was the best season in the program's history on the national level, as the Miners followed up their fifth regional title in six years with a third-place finish at the NCAA Division II Championships — the highest finish ever for a UMR athletic team at an NCAA championship event.



Photo by Bob Phelan/Photomasters



Mark Mullin, left,
Doug Grooms, above.

The Miners also placed eighth at the 1997 NCAA Championships and have had 59 All-America performances during Mullin's tenure as coach.

UMR's swimmers also have excelled in the classroom. The team has been named as the top academic team in Division II five times during the past 12 seasons and has been named 13 times in that span to the all-academic team by the College Swimming Coaches Association of America.

Prior to coming to UMR, Mullin was the head swimming coach at Northeast Missouri State University (now Truman State University) for four years.

Grooms, who also has served as an assistant football coach since joining the UMR staff in 1992, will take over a program that returns nine of the 10 individuals who won All-America honors at last year's national meet and also will have six solid recruits joining them.

Grooms is a 1988 graduate of Northeast/Truman and was a member of the swimming team while at the university. He has been a head coach at the high school level as he headed the program at Hastings High School in Nebraska, the position he held before coming to Rolla.

He will relinquish the football duties as part of taking over the swimming program.

Hall of Fame inductees have ties to greatness

Ties with greatness symbolize the newest class of inductees to the MSM-UMR Athletic Hall of Fame, which enshrined three new members and its first team in September. The new members are:



Richard Erickson, MinE'80, a member of the Miners' successful swimming teams of the late 1970s. Erickson won All-America honors on seven occasions during his career. He also won 10 conference championships and set three conference records in helping the Miners win three Missouri Intercollegiate Athletic Association titles. He was the MIAA's "Swimmer of the Year" in 1978.



Terry Ryan, the leading rusher in the history of the UMR football program. Ryan finished his All-America football career with a total of 3,432 yards rushing. He had two 1,000-yard seasons, including a school record 1,314 in 1977, and is also the leading scorer in Miner history who is not a placekicker. He was selected three times to the All-MIAA first team and won second-team All-America honors following the 1978 season. Ryan also was named to the MSM-UMR Centennial Football team in 1993 and still holds 11 school records.



Jeff Walters, CE'81, a two-sport standout and a member of the Miners' undefeated 1980 football team. Walters also was one of the top baseball pitchers in school history as he was named to three all-conference teams. In baseball, he set career records for starts, wins,

strikeouts, complete games and innings pitched for the Miners — all records he still holds today. As a football player, he was a wide receiver who caught 15 passes for 239 yards and three touchdowns during the Miners' undefeated season in 1980, a year in which they finished as the 10th-ranked team in NCAA Division II. He also played at quarterback and punted for the Miners during his playing career, when the Miners went 32-9-2 and won two MIAA titles.

The 1914 football team. The first team ever to be inducted into the Hall of Fame, the 1914 squad posted one of the most outstanding seasons in football history. The Miners won all eight



of their games that season by shutout that year, outscoring their opponents by a margin of 540-0. It is the only Miner football team to defeat the University of Missouri-Columbia and was considered to be the best team in the state that season. No national ranking systems were available at the time, but this could have been one of the top teams in the nation in 1914 as well. The honorees were inducted at a brunch prior to UMR's Sept. 12 football game.

Driscoll selected to head soccer programs



Dawson Driscoll, a former professional soccer player and most recently an assistant coach with the highly successful men's program at Ithaca College in New York, has been named as the new head coach of the men's and women's soccer programs at UMR.

Driscoll is taking over for Mark Salisbury, who resigned from the post in February to accept the women's head coaching position at Central Michigan University.

Driscoll, a 1990 graduate of Kenyon College in Ohio, worked with the program at Ithaca for the past two years. During that time, it had a combined record of 28-8-2 and was ranked among the top six teams at the end of the season in NCAA Division III.

He has been involved in coaching at many levels, including high school and college, since his latter years at Kenyon.

Driscoll completed work on his bachelor's degree in political science in 1990 from Kenyon, then earned his master's degree in exercise and sport science from Ithaca last year.

"He will bring good experience to the program," said UMR director of athletics Mark Mullin. "He has been involved with institutions which are strong academically and that experience will allow for a smooth transition."

Last season, the UMR men's team won a share of the Mid-America Intercollegiate Athletics Association title and posted an overall record of 9-8; the women's team had its best season in school history as it finished 15-3-1 and with a No. 24 national ranking in the final Umbro/Division II poll.

Basketball Miners head to Las Vegas in pre-season trip

Alumni: join the Miner basketball team for a pre-holiday weekend in Las Vegas, Dec. 19-20.

The Miners are taking part in the High Desert Classic on the University of Nevada-Las Vegas campus the weekend prior to Christmas. UMR will face Tarleton State University on Saturday, Dec. 19 (1 p.m. Pacific time), and Division II power the University of Central Oklahoma on Sunday, Dec. 20 (10:30 a.m. Pacific).

Travel packages are available for the weekend excursion. Prices are \$350 for a travel package, including transportation to and from Rolla, ground transportation in Las Vegas, the flight, and the weekend stay at Treasure Island on the Las Vegas Strip.

The team is scheduled to depart from Rolla and fly from Kansas City on the evening of Dec. 18. The team will return home Monday, Dec. 21. For more information, please contact head men's basketball coach Dale Martin at (573) 341-4101 or the UMR athletics office at (573) 341-4175. Other travel plans

The Miners will also travel to Houston this season to take on Rice University, a game scheduled for Monday, Nov. 23. The Lady Miners, meanwhile, have a trip to Florida as part of their 1998-99 schedule. The women's team will face Rollins College on Nov. 21 and Webber College two nights later.

Academic honors abound for UMR student-athletes

UMR was represented by six student-athletes District VII academic all-district teams for the 1998 spring season. The awards, sponsored by GTE and chosen by the College Sports Information Directors of America, included two members each from the baseball and women's track teams and one each from the softball and men's track programs.

The baseball representatives were **Kevin Hill**, a senior first baseman-pitcher and first team selection, and **Vince Como**, a senior shortstop named to the second team. Two other seniors, **Jennifer Frazer** and **Tracy Jones**, represented the women's track team on the spring at-large team as second team choices.

Ben Mulvaney, a senior on the track team who won All-America honors in cross country, was named to the first team in the men's spring at-large category, while **Gina Daugherty**, a sophomore and shortstop on the softball team, was a second team selection.

A total of eight UMR student-athletes were named to the various all-district teams during the 1997-98 academic year, with one, women's basketball player **Jamie Martens**, making the academic All-America team.

On the conference level, 15 student-athletes from UMR were named to the Mid-America Intercollegiate Athletics Association's all-academic team for the 1997-98 school year, while five were chosen as presidential scholars for the past year.

The UMR student-athletes honored on the all-academic team were: **John Almeida** (men's soccer), **Bruno Amizic** (swimming), **Tom Beccue** (swimming), **Eddie Brown** (men's track), **Sergio Esteban** (tennis), **Frazer** (women's track), **Matt Hagen** (men's track), **Scott Holly** (men's basketball), **Jones** (women's track), **Jackie Kelble** (women's track), **Matt Long** (men's soccer), **Mulvaney** (men's track/cross country), **Mark Pearce** (swimming) and **Natalie Sanders** (women's soccer).

Amizic and **Beccue** were also among the presidential scholars along with teammate **Brian Cunningham**, **Martens** (women's basketball) and **Scott Vogelsang** (men's soccer).

Alt, Collins named to all-region softball team

Two members of the UMR softball team were selected to the NCAA Division II South Central all-region team for the past season.

Senior designated player **Becca Alt** and senior pitcher **Erin Collins** were named to the all-region second team. For Alt, this was her third selection to the all-region squad as she was named to the first team in 1997 and the second team the previous year.

Alt made the team after leading UMR in hitting for the third straight season, batting .421 with 47 stolen bases. She finished her career as the fifth-leading base-stealer in NCAA Division II history and with the fourth-highest hit total in the history of the Mid-America Intercollegiate Athletics Association with 211.

Collins, a first-time selection to the all-region team, tied the Lady Miners' single-season record for wins in a season with 18 during the past year as she went 18-12 with a 1.91 earned run average. Collins also ended her career with career records for wins (55), games pitched, innings pitched and completed games. This year, Collins also struck out a career-high 132 batters in earning honorable mention all-conference laurels.

The Lady Miners finished the 1998 season with a record of 21-18.

FOOTBALL

Sept. 5	QUINCY, 1 p.m.
Sept. 12	MISSOURI VALLEY, 1 p.m. (MSM-UMR Hall of Fame Day)
Sept. 19	at Central Missouri State, 1 p.m.
Sept. 26	WASHBURN, 1 p.m.
Oct. 3	PITTSBURG STATE, 1 p.m. (Homecoming)
Oct. 10	at Northwest Missouri State, 2 p.m.
Oct. 17	TRUMAN STATE, 1 p.m.
Oct. 24	at Missouri Western, 1:30 p.m.
Oct. 31	MISSOURI SOUTHERN, 1 p.m. (Parents Day/Senior Day)
Nov. 7	at Emporia State, 1 p.m.
Nov. 14	at Southwest Baptist, 1 p.m.

MEN'S SOCCER

Aug. 29	ALUMNI GAME, 8 p.m.
Sept. 5	at Southern Indiana, 8:15 p.m.
Sept. 6	vs. Indianapolis, at Evansville, Ind., 6 p.m.
Sept. 11	COLUMBIA COLLEGE, 7:30 p.m.
Sept. 16	at Missouri-St. Louis, 7:30 p.m.
Sept. 20	MISSOURI SOUTHERN, 1 p.m.
Sept. 26	at Southwest Baptist, 3 p.m.
Sept. 27	LINDENWOOD, 3 p.m.
Oct. 2	LINCOLN, 7 p.m.
Oct. 4	ST. JOSEPH'S, IND., 3 p.m.
Oct. 7	at SIU-Edwardsville, 7 p.m.
Oct. 11	at Truman State, 2 p.m.
Oct. 17	at Rockhurst, 3 p.m.
Oct. 18	at Baker, 2 p.m.
Oct. 23	MISSOURI BAPTIST, 7 p.m.
Oct. 25	WILLIAM WOODS, 3 p.m.
Oct. 28	McKENDREE, 7 p.m.
Oct. 31	at Quincy, 7 p.m.

WOMEN'S SOCCER

Aug. 29	ALUMNI GAME, 6 p.m.
Sept. 5	MIDWESTERN STATE, 10 a.m.
Sept. 12	vs. Indianapolis, at Evansville, Ind., 11 a.m.
Sept. 13	at Southern Indiana, 1 p.m.
Sept. 16	at Missouri-St. Louis, 5:30 p.m.
Sept. 19	CENTRAL METHODIST, 1 p.m.
Sept. 20	MISSOURI SOUTHERN, 3 p.m.
Sept. 26	at Southwest Baptist, 1 p.m.
Sept. 27	LINDENWOOD, 1 p.m.
Oct. 2	CENTRAL MISSOURI, 5 p.m.
Oct. 4	ST. JOSEPH'S, IND., 1 p.m.
Oct. 7	at SIU-Edwardsville, 5 p.m.
Oct. 11	at Truman State, 12 p.m.
Oct. 17	at Rockhurst, 1 p.m.
Oct. 18	at Baker, 12 p.m.
Oct. 23	MISSOURI BAPTIST, 5 p.m.
Oct. 25	WILLIAM WOODS, 1 p.m.
Oct. 31	at Quincy, 4:30 p.m.
Nov. 7	MANKATO STATE, 1 p.m.

CROSS COUNTRY

Sept. 5	at SIU-Edwardsville
Sept. 12	at Kansas
Sept. 19	at Missouri Southern
Oct. 3	MINER INVITATIONAL, 9:30 a.m.
Oct. 10	at Washington University
Oct. 24	at MIAA Championships (Pittsburg State)
Nov. 7	at NCAA Great Lakes Regional (Hillsdale College)
Nov. 21	at NCAA Division II Championships (University of Kansas)

MEN'S BASKETBALL

Nov. 7	PHILIPPINE NATIONAL TEAM (Exhibition), 7 p.m.
Nov. 17	HANNIBAL-LaGRANGE, 7:45 p.m.
Nov. 23	at Rice, 7 p.m.
Nov. 27	ARKANSAS BAPTIST, 6 p.m.
Nov. 28	McKENDREE, 6 p.m.
Dec. 2	at Maryville University, 7 p.m.
Dec. 4	MONTEVALLO, 7:45 p.m.
Dec. 5	ROCKHURST or ECKERD, 5:45 p.m.
Dec. 12	WESTMINSTER, 7 p.m.
Dec. 19	Tarleton State (Las Vegas), 1 p.m.
Dec. 20	Central Oklahoma (Las Vegas), 10:30 a.m.
Dec. 31	DREAM BUILDERS (Exhibition), 1:30 p.m.
Jan. 2	at Emporia State, 7:30 p.m.
Jan. 4	at Northwest Missouri, 7:30 p.m.
Jan. 9	MISSOURI WESTERN, 7:45 p.m.
Jan. 11	TRUMAN STATE, 7:45 p.m.
Jan. 13	at Washburn, 7:30 p.m.
Jan. 16	at Central Missouri, 7:30 p.m.
Jan. 20	MISSOURI SOUTHERN, 7:45 p.m.
Jan. 23	NORTHWEST MISSOURI STATE, 3:30 p.m.
Jan. 25	PITTSBURG STATE, 7:45 p.m.
Jan. 28	at Southwest Baptist, 7:30 p.m.
Feb. 3	at Pittsburg State, 7:45 p.m.
Feb. 6	at Truman State, 7:45 p.m.
Feb. 10	LINCOLN, 7:45 p.m.
Feb. 13	WASHBURN, 7:45 p.m.
Feb. 17	at Missouri Southern, 7:30 p.m.
Feb. 20	SOUTHWEST BAPTIST, 7:45 p.m.
Feb. 22-26	MIAA Tournament

WOMEN'S BASKETBALL

Nov. 3	ST. LOUIS GOLDSTAR GYM (Exhibition), 7 p.m.
Nov. 17	SIU-EDWARDSVILLE, 5:45 p.m.
Nov. 21	at Rollins, 5:30 p.m.
Nov. 23	at Webber, 5 p.m.
Nov. 27	ARKANSAS BAPTIST, 3:30 p.m.
Nov. 28	ROCKHURST, 3:30 p.m.
Dec. 3	TUSKEGEE, 7 p.m.
Dec. 5	at Lincoln, 2 p.m.
Dec. 11	vs. St. Francis, Ill. (at Romeoville, Ill.), 7 p.m.
Dec. 12	at Minnesota-Duluth (at Joliet, Ill.), 5 p.m.
Dec. 21	at Missouri, 7 p.m.
Jan. 2	at Emporia State, 5:30 p.m.
Jan. 4	at Northwest Missouri, 5:30 p.m.
Jan. 9	MISSOURI WESTERN, 5:45 p.m.
Jan. 11	TRUMAN STATE, 5:45 p.m.
Jan. 13	at Washburn, 5:30 p.m.
Jan. 16	at Central Missouri, 5:30 p.m.
Jan. 20	MISSOURI SOUTHERN, 5:45 p.m.
Jan. 23	NORTHWEST MISSOURI STATE, 1:30 p.m.
Jan. 25	PITTSBURG STATE, 5:45 p.m.
Jan. 28	at Southwest Baptist, 5:30 p.m.
Feb. 3	at Pittsburg State, 5:45 p.m.
Feb. 6	at Truman State, 5:45 p.m.
Feb. 10	LINCOLN, 5:45 p.m.
Feb. 13	WASHBURN, 5:45 p.m.
Feb. 17	at Missouri Southern, 5:30 p.m.
Feb. 20	SOUTHWEST BAPTIST, 5:45 p.m.
Feb. 23-27	MIAA Tournament



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 and appropriate projects.

GOALS

- Increase involvement of young alumni in the association
- Improve section programming
- Increase financial resources of the association and university
- Improve communication with alumni
- Increase 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.

1930s

1932

Joseph E. Stevens, CerE: "I'm 89 years old, in good health and taking it easy in retirement. I'm one of a few still alive from the class of 1932. I'm also a survivor of the Battle of the Bulge in Europe and four campaigns during World War II."

1940s

1942

Charles E. Zanzie, EE: "Life is great in Florida. We play bridge often and I grow quite a few ornamentals around the house. There's no snow!"

1943

Clarence Wright, ME: "On Nov. 28, 1998, I married the former Patrice Fugua. We're currently living in California half time and in Missouri the other half."

1944

Arthur K. Cook, CE: "Retired."

1949

Delbert R. Cox, EE, MSEE'51: "My wife Doris and I moved to Lubbock, Texas. We are enjoying being near grandchildren." • **Robert C. Hansen**, EE: "I have a new book, 'Phased Array Antennas,' published by Wiley." • **W. R. "Bob" Hughes**, CerE: "I'd be interested in hearing from former Miners in classes of '48, '49 or '50. I am now retired and living part of the year in suburban Kansas City and part of the year in Florida — not difficult to guess which parts." • **Oliver W. Jones**, PetE: "I went to a St. Pat's alumni get-together a few days ago. I got a prize for bringing my 1949 class book. I liked the sweatshirts that we ordered from the bookstore — just in time for the meeting." • **Robert A. Perko**, EE: "I have happily moved into a new home at 7552 Pierside Dr., O'Fallon, MO 63366, with my new wife Deane (Kulp) Perko. My first wife passed away in April 1996." • **William E. Smith**, ChE: "I have been retired since 1991. For the last 20 years of my career I worked for ELF-ATOCEM in the plastics group selling plastic resins, mainly nylons. I now live in Chagrin Falls, Ohio. Have a 3-year-old grandson who keeps me busy. Next week we are leaving for Norway for two weeks. Going up the coast seeing the fjords and winding up above the Arctic Circle."

1950s

1950

Richard J. Frautschi, ME: "Now have grandchildren graduating from college. Retired in 1988 and now fly remote control airplanes. Would like to hear from Gene Gregg, Don Kelly, V.A. Leverett and Pete Southwick." • **Edgar J. Hellriegel**, CerE: "Married 53 years and shooting eight strokes over my age and getting better with age, like cheese." • **Anibal Jose da Silva**, Phys: "Retirees don't have vacations."

1951

C. Dudley Blancke, GGph: "Still pursuing my hobby of restoring an antique body: two new hips, two new knees, two plastic arteries, rebushed stomach valve and fiberglass diaphragm. Doing great and looking forward to the '50s football reunion in 2000." • **George R. Donaldson**, PetE: "Retired nine years, but working part-time. Need time to enjoy seven grandchildren." • **Harry F. Dreste**, Phys: "Enjoying retirement for several years! Keep busy working around home and with several hobbies, including model railroads and old Studebaker cars. Member of two old-car clubs and American Legion, and serve as a volunteer worker at veterans hospital. Cancer treatment past few years going OK!"

1954

Mack A. Breazeale, MSPhys, was scheduled to "give an invited paper on optoacoustics in Poland in May and two papers on non-linear acoustics in Seattle at the International Congress on Acoustics in June 1998."

1955

Edward N. Sickafus, Phys, MSPhys'56: "I have a web page (ic.net/~ntleack) describing a textbook on a new problem-solving methodology called 'Unified Structured Inventive Thinking.' Ford Motor Co. is the first U.S. corporation to train its engineers and scientists in USIT."

1957

Frederick J. Dietrich, EE: "Wife Pat and I continue to thrive with eight grandkids. Trip to New Zealand scheduled for May, maybe New England this fall, maybe Ireland/Austria next year. We love to travel! Consulting business continues well."

1958

Earl E. Anspach, EE: "Retired from Sverdrup in 1995. Enjoying the golf course and the other outdoors." • **Paul O. Herrmann, III**: "On June 2, 1998, completed 40 years of service in components engineering at Systems & Electronics Inc., formerly Emerson

Life on the other side

An Engineer and Proud of it

by Laurie (Wilman) Alberswerth

A beam walks into a bar. The bartender asks him what he'll have. The beam answers, "Give me a moment."

If you are now rolling on the ground in a fit of laughter, you are definitely an engineer. If you've reread the joke four times and are ready to start flipping through the rest of the magazine to find something that actually makes sense, you're not. And herein lies the problem.

We, as engineers, have to cope in what is most assuredly a non-engineering world, and one that can be somewhat hostile for us from time to time. Just because our profession is not an easy one to understand, we end up with a bad reputation, which in turn translates into a stereotypical image: a bunch of nerds who are impersonal, calculating, dull, anti-social, introverted and prefer the company of their NT Workstation to that of an actual human being.

It's easy to see how this image was created. To the average Joe, intelligent people are nerds and geeks, but I sure as heck wouldn't want the engineer who designed my car's braking system to be a few fries short of a Happy Meal. As for calculating and analytical, well, if we

weren't, large pieces of metal with wings would fall from the sky and more than likely land on something of consequence. Introverted? Yes, maybe some of us are. But most folks don't go into engineering to have stimulating, boisterous conversations with their co-workers, mostly because half of their co-workers are big chunks of silicon that have more of Bill Gates in them than they do actual

...we engineers must suffer in our fate as misunderstood geniuses

personality. (And just to clarify something, occasionally I do prefer the company of my NT Workstation to that of an actual human being. My machine tends to be less cranky first thing in the morning. And, come on: Who do you know who comes with mesmerizing screen savers that magically appear when you've zoned out of the conversation for more than five minutes?)

As for being dull, may I refer you again to the joke at the beginning of this column. It's funny. It's riotous. Unfortunately, anyone who has not had at least two years of engineering school wouldn't get it. And they call us boring!

As I've said, we live in a non-engineer world, so anytime we are in the majority outside of the workplace,

it's a rarity. I did have one moment of triumph recently, though. My husband and I just bought our first house. On the day of the house inspection, there was my husband, myself, the seller, her fiancé, the inspector, and a stand-in real-estate agent. I'm a mechanical engineer. My husband is a civil engineer. The seller was a mechanical engineer. Her fiancé was a civil engineer. The house inspector was a structural engineer. The real-estate agent was... lost. Highly, highly lost. While he was a very nice guy for substituting for our regular agent that day, the poor fellow just couldn't quite keep up with the conversation. Suffice it to say, I laughed. And laughed. And laughed.

Unfortunately, other than these rare moments, we engineers must suffer in our fate as misunderstood geniuses. In the meantime, though, have you heard the one about the programmer who said that computers would take over the world? The engineer replied, "Not until they learn to wire their own plugs." *Ha ha ha.*

Laurie (Wilman) Alberswerth, ME'96, is a stress engineer at Systems and Electronics Inc. in St. Louis.

Drive in Style-Now you can get up to six characters on your UMR license plate!



License plate courtesy of Dick Elgin, CE'74, MSCE'76

If you currently display the UMR plate, you can change your lettering by visiting your local license office and picking up a new request form. And if you've been holding off on getting a UMR plate because you couldn't express your true self in only five characters, wait no longer!

Make your gift of \$25 or more to the MSM-UMR Alumni Association's License Plate Scholarship Fund and we'll send you the forms you need to get started!

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 Ralph E. McKelvey

Harold G. Moe
 Eugene Moniak
 John L. Mundy
 Ken Niewoehner
 Lawrence F. O'Neill
 David P. Petersen
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Be an Admissions Ambassador for UMR

Would you like to help the students in your area get interested in UMR? Then join the alumni admissions ambassador program.

The goal of this program is to involve alumni, parents of currently enrolled students and other friends of the university in the recruiting process.

Opportunities for participating include attending college fairs in your area as a representative from UMR, calling local students to answer questions about our school, talking to the pre-engineering classes at your local community college and referring students to us for entry into our database, which allows us to reach them with a comprehensive recruitment program. You may participate in as many or as few of the activities as you wish. The typical ambassador spends between two and 10 hours on the program per year.

If you wish to join or would like more information, please call Jennifer Bayless '89 in the admission office at 1-800-522-0938 or (573) 341-4372 or send her an e-mail message at jbayless@umr.edu.

WE HOPE TO HEAR FROM YOU SOON!

We would love to hear what's new with you!

Send your *Alumni Notes* via:

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Association, (573) 341-6091

OR WRITE US:

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

Electric Co. Plan to retire at end of 1998 to visit four children and seven grandchildren." • **Donald C. Micka**, PetE: "Retired and living in New Orleans. Always looking for new golfing and fishing buddies." • **Paul W. Taylor**, ME, is the new chief engineer of the Missouri Highway and Transportation Department. He previously served as deputy director of the New York State Department of Transportation. • **George D. Tomazi**, EE, "Am just concluding my term as president of the St. Louis chapter of the Missouri Society of Professional Engineers, and also received an award from the Humane Society of Missouri." • **Charles R. Welch**, ME: "Retired and enjoying the freedom." • **Thomas E. Welsh**, ME: "Doris and I moved to Bella Vista, Ark., four years ago after a 33-year career with General Motors in Indiana."

1960s

1960

Lewis K. Cappellari, Phys: "I am still with Hughes Aircraft Co., working as an IR systems engineer on the AST Aircraft flying out of Seattle, Wash." • **David C. McNeely**, PetE: "My family and I still live in Spring, Texas, just north of Houston. I am an engineer with International Gas Consultants. I still enjoy working after 38 years."

1961

S. Allen Wolf, CE: "Retired from Alcoa, sales/marketing management, November 1993. Currently director of group sales for Purdue University athletic department and also commissioner of the Heartland League Inc., an independent professional baseball league. Wife Betty is a real estate agent for Coldwell-Banker. Current and new address: 122 Westview Circle, West Lafayette, IN 47906. Winter address at Pelican Strand, North Naples, FL (under construction)."

1963

Paul F. Becher, MetE, MSMetE'65, of the Department of Energy's Oak Ridge National Laboratory, has been named president-elect of the American Ceramic Society (ACerS). He currently serves as treasurer of ACerS, whose 10,000 members are engaged in research and development, manufacturing and applications of ceramics, glasses and composites.

John G. Bartel

John Bartel receives the University of Missouri System Presidential Award for Outstanding Alumni Service to the University of Missouri-Rolla.

**CerE'52, Professional Ceramic Engineer '85
President of Cercon Inc. in Hermann, Mo.
Worked for United States Steel Company
General Refractories Co. and H.K. Porter Co.
Served as mayor of the City of Hermann
and director of the Hermann Chamber of Commerce
MSM-UMR Alumni Association board of directors, 1987-1993
Member of the Academy of Mines & Metallurgy since 1995
Served as president of the Order of the Golden Shillelagh
Member of the UMR Board of Trustees
Alumni Achievement Award, 1995
Honorary Knight of St. Patrick, 1997**

Photo by Dan Seifert/Stone House Photography

1964



Ralph M. Cassell petroleum consultant working out of home."

Ralph M. Cassell, MetE, has been appointed vice president and general manager-wire products at Laclede Steel Co. • **Tommie C. Wilson**, PetE, MSPetE'65, PhDPetE'70: "Now a

1965

Arthur L. Nickless, Phys: "Joan and I became proud grandparents for the first time, Aug. 4, 1997, with the birth of Elizabeth A. Haraburda." • **M. W. "Bill" Vance**, CerE, MSCerE'67: "I am now retired from Alcoa. I am operating a castable/refractory product development lab in the Mon Valley."

1966

James Beavers, CE, became the new deputy director of the NSF-sponsored Mid-America Earthquake Center on April 27, 1998. He is responsible for supervising coordinated research programs of the MAE Center, and stimulating new collaborative relations with industry and government. • **Robert Heider**, EE: "I miss seeing 'Joe Miner.' I know this is a rough semester, but let's see him more often." • **Robert L. Johnson**, MetE: "After 32 years with Boeing, I am retiring. I plan to go full-time into building a new home on Whidbey Island." • **Franklin D. Schowengerdt**, Phys, MSPhys'67, PhDPhys'69: "I am currently professor of physics (at the Colorado School of Mines) and director of the NASA-funded Center for Commercial Applications of Combustion in Space."



First row left to right: Engelhardt, Boren, Allgood, Brose, Parker, Hill, Helm. Second row: Deranja, Boyett, Feaster. Third row: Allison, Herschbach, Murphy, McPherson, Ware, Wheeler, Beydler, Wilson, Herrick. Fourth row: Klohr, Hillmeyer, Kruger, Jurenka, Kalinowsky, Wells, Gribble, Jobe.

Jackling Jocks Reunion

A reunion of former Jackling Jocks and wives was held at the Arlington Hotel in Hot Springs, Ark., June 12-14. Twenty-five former Miners met along with special guests Coach Dewey Allgood, Athletic Director Mark Mullin, and Herman Pfeifer '36. A great time was had reliving past glory days in ol' Jackling Gym.

Another reunion is planned for the fall of '99 in Kansas City.

Those attending included: Dick Boyett '58, Bill Engelhardt '60, Morris "Chick" Boren '62, Dewey Allgood, John W. Brose '58, Ray Parker '60, Bill Hill '58, Robert Helm '57, Ted Deranja '65, Richard Boyett '58, Roger Feaster '57, Perry Allison '59, Arthur Herschbach '61, Jim Murphy '56, Ed McPherson '59, Jim Ware '56, William Wheeler '60, William Beydler '59, Hugh W. Wilson '59, Tom Herrick '58, Dale L. Klohr '58, Michael Hillmeyer '61, William Kruger '59, Ron Jurenka '58, Joe Kalinowsky '57, Newton Wells '59, Val Gribble '56, Kenneth Jobe '60, Herman Pfeifer '36, and Mark Mullin.

(Submitted by Dick Boyett '58)

1967

J. Michael Evans, ME, has been elected president and chief operating officer of Consolidated Edison, the power company which serves the New York area. • **James D. Robertson**, MSCSci: "I am the chairman of the computer information systems department at Bentley College, Waltham, Maine. I am living with my wife Celia and daughters in Chelmsford, Maine."

1968

Alan F. Karberg, CE, has been promoted to vice president of project operations-standards and support by Paric Corp. • **Eugene A. Robl**, MSPhys: "Teach meteorology at University of Utah. I teach physics and chemistry part time at Westminster College of Salt Lake City." • **Mandira Simental (Jane Bennett)**, MSChem: "I was named president of Talk Plus Service, a California telecommunications company. It seems like a long way from chemistry to telecommunications, but

telecommunications is the lifeblood of our future. It's important to me to be doing something exciting and at the leading edge of technology."

1969

Stanley E. Cary, EE: "My wife Priscilla and I are proud of our first grandchild, Alex, born on March 27, 1998. His parents are David A., ME'92, and D.J. Cary of Rogersville, Mo." • **John W. "Jack" McGuire**, Phys, is no longer with Sacred Heart Academy. He teaches mathematics at Indiana University Southeast and at Bellarmine College. • **Raymond J. Posch**, CSci: "recently accepted a position as manager of Program Management Office for Time Zero Group of Perot Systems Corp. Time Zero specializes in electronic commerce systems integration."

1970s

1970

Herman R. Hirner, AE, became president and CEO of Diemakers on April 1, 1998. • **Robert J. Webb**, EE: "I passed the written professional electrical engineering eight-hour test. I am an electrical engineer with Fluor Daniel Inc. My wife Susan and I are doing well." • **William K. "Keith" Wedge**, GGph, MSGGph'71, PhDDGGph'73, will become the commanding general of the 420th Engineer Brigade (USAR) in Bryan, Texas, effective February 1999. The brigade has more than 3,200 soldiers in 17 units located within seven states.

1971

Vincent J. Budd, EE, is the manager of electric resources for Orange and Rockland Utilities in Spring Valley, N.Y. • **Steven C. Hanger**, CSci: "I married Terry L. Reeves on March 21, 1998, in Augusta, Ga. I work for Choicepoint Inc. in Alpharetta, Ga., and Terry works for Northwest Airlines." • **Lindell G. Rutherford**, CerE: is the commanding officer for the USS George Washington.

1972



Steven A. Biederman, CE, has been promoted to operations manager for Fru-Con Construction Corp. in St. Louis. • **Paul E. Schlett**, CerE: "Am bivocational, serving as pastor of Hamilton

Steven A. Biederman Hill Fellowship and working as refractories consultant with Carmagen Engineering Inc."

1973

John Baz-Dresch, MinE: "I left Venezuela in January and am now chief mining engineer with Greenstone Resources at Bonanza in northeastern Nicaragua. We are trying to get the mine back in a stable position and make the operation profitable. The Sandinista government didn't leave anything in good condition." • **Peggy S. Lorge**, Math: "After 11 years of teaching math and science and writing grants at Pyramid Lake High School, I took the plunge. I was a grad assistant at University of Nevada-Reno, and will receive my master's in educational leadership in May." • **Wesley S. Watkins**, CE: "Assigned as vice president and project manager for two Russian joint venture pipeline engineering firms. Working on developmental design for oil and gas pipelines on Sakhalin Island in Russia for Sakhalin Energy." • **Kenneth W. Werner**, EE, retired from the U.S. Air Force with 25 years of service July 1, 1998. "I have accepted a position as general manager of the Utility

Commission, Fort Valley, Ga.” • **Scott B. Winfield**, CSci: “Just implemented a TMN-compliant SONET backbone network management application system. Waiting to see what MCI Worldcom will be like.”

1974



James J. Barbarito, ChE, is director of product management and planning at Eastman Chemical Co., Kingsport, Tenn. • **William P. Clarke**, CE, MSCE'79, was nominated president

for the 1998-99 administrative year by MSPE's 1998 nominating committee. He is vice president of design operations for Horner and Shifrin Inc. in St. Louis. • **Phillip W. Inman**, Hist: “I became a great-grandpa last fall, when the Lord blessed my grandson Daniel Reece and his wife Sharon with a fine baby boy, Wesley Paul. They live there in Rolla. Daniel works at Wal-Mart.” • **Joseph K. Russell**, GeoE, was nominated president-elect for the 1998-99 administrative year by MSPE's 1998 nominating committee. He is office manager of the Chillicothe, Mo., location of Shafer, Kline and Warren, P.A.

1975

Michael J. Garnett, EE, MSEE'77: “After 25 years with General Motors as staff electrical engineer responsible for leading development of new vehicle electrical system architectures, I am beginning a new career as a tutor teaching individuals with dyslexia to successfully read, write and spell.” • **Stanley G. Harris**, CE, MSCE'76, became city engineer for the Kansas City (Mo.) Public Works Department on March 2, 1998. •



Christopher J. Lotz, CE, is a senior project manager in the industrial, environmental and energy business unit at Paric Corp. He has completed engineering-in-training certification in Missouri and is pursuing studies to attain professional engineer certification in the state. • **David K. Muckerman**, CE, MSCE'79: “I have transferred from the Boise, Idaho, office to the Atlanta office of Brown and Caldwell. My new address is 450 Arbor Creek Overlook, Roswell, GA 30076.” • **William Nickoley**, MinE: “Since 1996 have been senior project manager at Bergmann Associates, Hoboken, N.J. Wendy and I are enjoying our new town of Rockaway in scenic northwest New Jersey, near the Delaware River and Pocono Mountains. God continues to bless!” • **Kevin C. Skibiski**, CE, MSCE'76, was nominated treasurer for the 1998-99 administrative year by MSPE's 1998 nominating committee. He is the director of

engineering for Scott Consulting Engineers, P.C., in Springfield, Mo. • **John L. Wegman**, CSci: “I am now a senior client representative on IBM's four-person team that markets to the state of Missouri in Jefferson City. My wife Connie and I have two sons, Jacob, a sophomore at Truman State, and Nicholas, a sophomore at Helias High School.”

1976

Jennifer Wang Posda, CerE, is now a business manager for Radiac Abrasives of Salem, Ill. • **Richard A. Scarr**, EE: “I am currently living near the beautiful white sands of Fort Walton Beach, Fla., working for Boeing after the merger of Boeing and McDonnell Douglas.”

1977



Timothy Daher, CE, has been promoted to vice president of construction services at The DESCO Group. He is responsible for all construction activities by DESCO, a St. Louis-based commercial real estate brokerage, management and

development firm. • **Richard G. Post**, EE: “Post Properties and Realty Inc. is now trading paper (mortgages) nationwide. E-mail me for more information, rpost@stlnet.com.”

1978

Elaine C. Balliew, EE: “I work for Hewlett-Packard as a product marketing engineer. I have marketing responsibility for XDSL test solutions for manufacturing. Barb and I have three children, Nate, 13; Kathy, 11; and Becky, 3.” • **Douglas K. Cothorn**, CSci: “Doug, Diane, Jeremy, Andrea and Bethany Cothorn, 2533 River Road, Murfreesboro, TN 37129. Home phone is (615) 895-4929. Work phone at Ingram Book Co., (615) 793-5000, ext. 2313.” • **Michael D. Winnett**, ME, joined the ICC Inc. Engineers-Architects, located near the Metro Link station at Laclede's Landing in St. Louis, as director of packaging projects. ICC Inc. offers complete master planning, process and packaging design, electrical engineering, architectural design, and project management and installation services.

GIVING BACK TO HELP OTHERS

“I hope to return the generosity upon my graduation in order to help others excel.” Many students who receive MSM-UMR Alumni Association scholarships say this, or something similar, in their notes of thanks. But what really happens when they graduate?

The good news is that many of them do “return the favor.” Last year, over 60 former scholarship recipients gave over \$17,500 back to the Alumni Association. Some of them made \$25 gifts and sent notes saying, “I'll send more when I get a job,” or “This is just the start...I want to pay back everything I was given, and more.” Others sent checks for anything from \$100 to \$1,500.

When they receive scholarships from the MSM-UMR Alumni Association, students are asked to consider a quarter of the total amount received as a “loan,” and they are encouraged to “repay” what is considered a moral obligation to the association, to help students in the future. Most who decide to give back donate much more than just a quarter of what they received...Most become regular Annual Fund donors, because they remember how much these scholarships meant to them when they were in school.

Laura (Vrabel) Lowe '93 says, “I give back so that students see that those who have received scholarships in the past have an interest in seeing the program continue. It's important that students realize that people in industry are concerned about them, because of our continual need for a fresh crop of engineers from our alma mater.” **Scott Palmtag '93** echoes this thought in saying, “I paid my own way through school with scholarships and other financial aid, and I feel it's important to give other people the same opportunity.”

The MSM-UMR Alumni Association Scholarship Program is just one of the programs provided through your generous support of the association's Annual Fund.

**Last year,
over 60
former
scholarship
recipients
gave over
\$17,500
back to the
Alumni
Association**

Alumni Notes



1979

Janice J. Gilliam, Econ: "I am currently employed as deli manager at Country Mart of Rolla. I live outside of town with my three gorgeous children."



David A. Kemper, CE, MSEMgt'84, is an officer of Dames and Moore, a global professional services company, where he serves as a civil engineer in the company's Tampa office.

• **David A. Kemper**, CE, MSEMgt'84, is an officer of Dames and Moore, a global professional services company, where he serves as a civil engineer in the company's Tampa office.

1980s

1980

Bradley A. Brown, EE, Phys: "Still running my consulting business analyzing commercial and industrial utility bills. Soon will have web site and software available over the web." • **Wayne A. Hamilton**, MSGeoE: "Still married to the same wonder woman for 16 years. Dealing with my mid-life crisis by playing guitar and taking piano lessons. Also we are raising three great kids who are 11, 8, and 3 years old." • **Janet (Jones) Horton**, ND: "After leaving UMR in 1978, I transferred to Southeast Missouri State University and changed my degree from civil engineering to business management. Currently I am getting ready to open a new travel agency in Maryland. Have been married for 20 years to my high school sweetheart and have two great kids and a cat." • **Pamela J. Staley**, MSGeoE: "I am currently working as a regulatory affairs representative for Amoco Production Co. in Denver."

1981

Rusby G. Adams, EMgt: "Just moved to upstate New York, as the training

manager at our Baldwinsville, N.Y., brewery with Anheuser-Busch. Tammy and our kids, Zane and Maddie, are doing great." • **Amy S. Cothorn**, EE: "I've left IBM and formed my own company to do wide area network communications planning and installation services in Colorado Springs, Colo." • **Marjorie (Andler) Green**, MetE: "Malcom, Greg and I are living in Kansas City. A former colleague and I have started our own consulting business called Six Sigma Systems Inc. We lead Six Sigma integration in companies." • **Reuben C. Heim**, GeoE: "PC/LAN manager for Tricon Global Restaurants." • **Barbara A. McPherson**, CE: "Philip, CerE'83, and I are doing great and both boys are growing up quickly."

1982

Randall M. Perkinson, CE: "I joined TranSystems Corp. Consultants and am the transportation team leader in the firm's new Tulsa, Okla., office." • **Eric G. Politte**, ME: "My wife Sue and I still live in the Houston, Texas, area with our three children. I am president of my environmental and regulatory compliance engineering company. We acquired a small engineering firm last year and are in the process of merging that company with yet another. Business is going good." • **Charles Richey**, EE: "Still keeping the blue side up here at Delta Airlines, with my wife Susan and daughter Jessica, 3."

1983

Kenneth L., CerE, and **Susan M. Knittel**, CerE: "Ken and I are out in Tucson, Ariz., working for a company called Tucsonix, making ceramic capacitors. Our son Lenny starts kindergarten in the fall. We also have a daughter Kendra, 3." • **Philip D. McPherson**, CerE: "Barb, CE'81, and I are doing great and both boys are growing up quickly." • **Ralph L.**

Merry, GeoE, MSGeoE'86: "After almost 13 years in the south (Houston and New Orleans), finally made my way out West! Working as a petrophysicist for Burlington Resources in Farmington, N.M. My wife Cherie and I have two daughters, Rachel, 3 and Katy, 11/2." • **Philip B. Musser**, EE: "Moved to Sioux City, Iowa. My new position is manager of energy consultants with MidAmerican Energy Co." • **Cathy (Mueller) Zajchowski**, CE: "1997 was a very busy year for me. I started off the year by getting married to Richard Zajchowski. Richard is a commodity manager with Emerson Electric. He must be excused, as he is an alumni of UMass. In the fall, I completed my MBA at Webster University. Just in time, Aleksander joined us in December. After a brief leave of absence, I am continuing employment at the U.S. Army Corps of Engineers." • **Jeffrey Zieger**, PetE, is production and allocations manager for Prime Tanning Corp. He and his family moved from Houston to St. Joseph, Mo., in October 1997.

1984

Karl E. Burgher, Econ, PhDMinE'85: "Appointed vice chair Haskell Environmental Research Studies Center Board/Haskell Indian Nations University in Lawrence, Kan. Recent work effort involves municipal planning and mine waste cleanup." • **Jill A. Cameron**, CSci: "I am working part time for IBM in Rochester, Minn. We now have two children, ages 1 and 4." • **Christine (Waeckerle) Dodson**, CSci: "Still working for IBM in Lexington, Ky., now in the enterprise automation area. When

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FUTURE MINERS

not at work, I enjoy spending time with my children ... especially on the soccer field." • **Jeffery W. Germer**, PetE, MSEMgt'90: "Left Petrolite and I'm now working for Betz Dearborn at Shell's Woodriver Refinery. Jenna is 5 and Jordan is 3." • **Steven R.**, PetE, MSPetE'85, and **Claire E. Homoky**, PetE'85: "We have moved again! We started in Alaska, moved to Texas, moved back to Alaska, and now back to Texas. We have three children, ages 6, 4 and 3. Claire went back to school and completed her second degree in management information systems. She's been working as a DBA and systems engineer since graduation. I am a staff engineer for Arco El-Djazair. I have been working on international projects in Algeria." • **Robert J. Krueger**, PetE: "After a successful 10-year stint as a consulting environmental engineer, I've finally had to dust off my 'old' school books. Things are heating up in Utah with several coal bed methane plays, horizontal-line drives, and that good old Utah wax. Chew some Wrigley's gum, that's Utah yellow wax!" • **Stephen J. Poppe**, ME, recently completed the Reserve Officers National Security Decision Making Course. • **David Stanfield**, EE, MSEE'91: "**Heidi-Jo**, EE'85, and I are both working at Shafer, Kline and Warren in Kansas City. We have a son and daughter." • **James E. Studer**, GeoE, MSGeoE'85: "Last year I founded Funding Resource LLC, based in Albuquerque, N.M. FR helps its clients obtain capital and does so using a large and diverse network of funding sources. We specialize in engineering, technology, construction and manufacturing sectors."

1985

Anzell M. Atkins, PetE: "Working for Lockheed Martin as the Royal Australian Air Force air vehicle engineering manager for LM's RAAF C-130J-30 program." • **N. Byron Canady**, ME, has been promoted to manager, engineering projects, at AlliedSignal Federal Manufacturing and Technologies. • **Walter P. Glaeser**, ME: "Moved back to Colorado Springs after being gone for six years. Now working as a systems engineer for Lockheed Martin mission systems. Got out of the Air Force in January 1995. Spent almost three years in Arizona, and now back in the beautiful mountains of Colorado. Maureen, the kids, Colleen, Brendan and Megan, and I are doing fine. Hope to hear from some of the old gang from Kelly Hall, Houses A or C. (Or my old roommate, Mark Weber. Where are you, dude?)" • **Robert G. Henry**, EMgt: "Still with Waste Management at the Kettleman Hills facility, Calif." • **Claire E.**, PetE, and **Steven R. Homoky**, PetE'84, MSPetE'85: "We have moved again! We started in Alaska, moved to Texas, moved back to Alaska, and now back to Texas. We have three children, ages 6, 4 and 3. Claire went back to school and completed her second degree in management information systems. She's been working as a DBA and systems engineer since

Joseph R., ME'94, and **Julie L. Boley**, EE'94, had a boy, **Alexander J.**, on Oct. 2, 1997.

David A. Cary, ME'92, and **D.J.** had a boy, **Alex**, on March 27, 1998.

Kirk D., ME'92, and **Brooke Grantham**, ME'92, had a girl, **Taylor McKay**, on May 11, 1998.

Kathleen, EE'88, and **Stephen Hagen**, EE'89, had a girl, **Paige Louise**, on April 2, 1998.

Lawrence M. Hamilton, Hist'87, and **Jill** adopted a 1-year-old boy, **Zachary Aaron**, on Jan. 28, 1998. He joins **David**.

Robert G. Henry, EMgt, and **Patricia** had a girl, **Bobbie Elizabeth**, on Jan. 14, 1998. She joins sister, **Sarah**, 6, and brother, **Jacob**, 3.

Joseph G. Jones, CE'92, and **Valerie** had a girl, **Margaret May**, on Feb. 22, 1998. She joins **Nicholas** and **Nathaniel**.

Daniel S., CerE'94, and **Nicole "Nikki" Krueger**, CerE'94, had a boy, **Ritter Makenzie**, on Aug. 4, 1997.

Philip B. Musser, EE'83, and **Cathy** had a boy, **Philip Musser Jr.**, on Dec. 9, 1997. He joins his five older siblings.

Ryne P. Raffaele, PhDPhys'90, and **Celeste** had a boy, **William Otto**. He joins **Patrick** and **Ellen**.

Ronald E. Robbins, PetE, MSPetE'86, and **Teri** had a girl, **Mia Rose**.

Todd W. Rush, GeoE, MSGeoE'84, and **Sarah** had a boy, **Jonathan Samuel**, on May 6, 1998. He joins **Hannah Jane**, 2, and **Matthew**, 8.

Richard A., Phys'89, MSPPhys'95, and **Angelia M. Sparrow**, Engl'91, had a boy, **Jonathan Edward**, on Dec. 23, 1997. He joins **Victoria**, 6, and **Christopher**, 3.

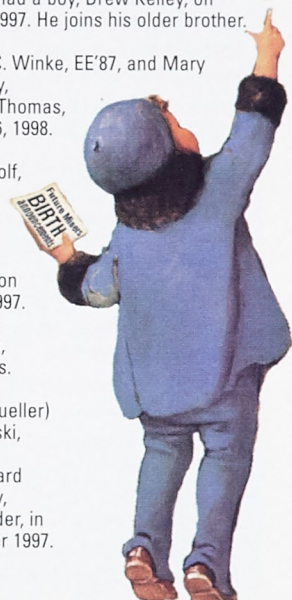
Randall L. Vogel, CE'88, and **Jerri** had a boy, **Tyler Robert**, on April 1, 1997.

Darrell K. Williams, MSEMgt'95, and **Monzita** had a boy, **Drew Kelley**, on Oct. 10, 1997. He joins his older brother.

Stanley C. Winke, EE'87, and **Mary** had a boy, **Zachary Thomas**, on April 6, 1998.

Carrie Wolf, EMgt'89, and **Luke** had a girl, **Jessica**, on Dec. 2, 1997. She joins **Benjamin**, 18 months.

Cathy (Mueller) Zajchowski, CE'83, and **Richard** had a boy, **Aleksander**, in December 1997.



YEARBOOKS!

If you've misplaced your yearbook or need another copy, now's the time to get yours. The Rollamo Office has the following yearbooks available: 1961, 1987, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996 and 1997. To get the book you want, contact **Carol Molchan**, Rollamo Adviser, University of Missouri-Rolla, 113 UC-W, 1870 Miner Circle, Rolla, MO 65409, or send in this form. There's no charge for the book, just a \$5 shipping/packaging fee to cover costs.

Please send me the following yearbook(s):

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City/State/ZIP _____

Daytime phone number _____

(Please enclose \$5 to cover shipping costs)

E-mail and World Wide Web ADDRESSES



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S. Allen Wolf, CE'61, SWolf8@aol.com

Cathy (Mueller) Zajchowski, CE'83, ZAJCHOWS@SMTP.MVS.USACE.ARMY.MIL

graduation. I am a staff engineer for Arco El-Djazair. I have been working on international projects in Algeria." • **Bradley S. Hutson**, ME: "On Dec. 12, 1997, I graduated as a member of Class 112 from the U.S. Naval Test Pilot School in Patuxent River, Md. I then returned to the Naval Air Warfare Center at Pt. Mugu, Calif., where I am presently working as a flight test engineer testing aircraft weapon systems." • **Mark A. Layne**, PetE, MSPetE'87, PhDPetE'96: "Hi all! Hope to be through there soon, but who knows with the schedule." • **Randall D.**, EE, and **Sheila M. Olmstead**, CSci: "Randy works at Boeing in Huntington Beach, Calif. He does mission analysis—trajectories for the Delta II launch vehicle. Sheila works as a financial analyst for the same program." • **Darren F. Rosenbaum**, MSCSci, received his Ph.D. in chemical engineering from the University of Illinois, Champaign-Urbana in May. Darren and his wife Mindy now live in Houston, Texas, where Darren works for the Exxon Production Research Co. • **Laura E. Sherry**, ME, joined the firm of Burns & McDonnell Engineers-Architects-Consultants, as a senior mechanical engineer with 13 years of experience in planning design, construction start-up and maintenance of mechanical systems for industry. • **Heidi-Jo Stanfield**, EE: "David, EE'84, MSEE'91, and I are both working at Shafer, Kline and Warren in Kansas City. We have a son and a daughter." • **Marvin L. Taylor**, EE: "Recently married Julie Wolf; moved to foothills just west of Boulder. Still teaching mountaineering and writing software."

1986

Frederick M. Booth, GeoE, MSGeoE'88: "I will celebrate my 10th year with Golder Associates as the St. Louis office manager." • **Kevin J. Knocke**, EE: "All's well up here in the country. Julie is starting college in the summer. Kids are growing up fast!" • **Richard S. Phillips**, EE: "Recently formed a competitive local exchange carrier (CLEC) in St. Louis known as Broad Span Communications. The company offers advanced voice and data communications services." • **Daniel P. Poertner**, CSci: "Looking forward to getting back to Missouri sometime. Hello from NYC area!" • **James G. Reinhardt**, EE: "Mary Jane, CSci, Kevin, Nicole, Steven and I are all doing well in Creve Coeur, Mo. My employer, Fletcher-Reinhardt Co., is moving to new building in summer 1998. E-mail me at jmr@fr-electric.com. E-mail Mary Jane at mjreinhardt@themillergroup.com." • **Joseph R. Tauser**, EE: "I am finally able to move to my 'country estate' (seven acres in glorious Jefferson County), thanks to the success of Joseph Tauser and Associates, founded in 1996. Formerly known as the Edward W. Mooney Co., Joseph Tauser and Associates specializes in counters and

GET CONNECTED

send your e-mail address to alumni@umr.edu

temperature control. On the web at www.jtauser.com."

1987

Patrick F. Emmett, Hist: "I am now a cartographer at USGS in Rolla. Had fourth child in November 1997. Wife **Rosanne**, ND'94, works locally with the developmentally disabled." • **Lawrence**

M. Hamilton, Hist: "The Hamiltons now live and work in the Kansas City area. I'm working as a customer support specialist as part of the financials team for Manatron Inc., a company that specializes in software for county and city governments. Jill is working as a preschool teacher. Larry and Jill are both helping start a new church in the Kansas City area." • **Jerome**

A. Hinson, MSMath: "In addition to serving as chaplain aboard USS Lake Erie, I am tutoring sailors in statistics and college algebra. Maybe UMR should have an afloat program!" • **Richard Russell**,

EE: "I am now project manager for industrial projects with RJP Electric in St. Louis. I'm living in Des Peres with my wife Paula and 3-year-old son Jack." •

Daryl R. Salomon, GeoE: "Enjoying the difficult task at hand, managing a beach replenishment project for Ocean City, Md." • **Michael D. Stokes**, EE: "I have gone to work for Rockwell Collins in Cedar Rapids, Iowa." • **Steven F.**

Wasleski, CSci: "Promoted to advisory programmer at IBM."

1988

James C. Blessing, EE, married Katharine Miklos, Oct. 18, 1997, in Washington, Mo. Katharine is employed by G.E. Capital Mortgage Services, St. Louis, as a pool certified document recovery specialist. James is an electrical engineer at Ameren UE, St. Louis. They live in Ballwin, Mo. •

John R. Dalton, ME, MSME'91: "I am doing great at Hunt Refining Co. Moved from Conoco in 1996." • **Kathleen T. Hagen**, EE: "Steve, EE'89, and I are living in Austin, Texas, with our daughter, Paige Louise." • **Carolyn S. Hathaway**

Duchars, LSci: "I will finish my hematopathology fellowship in June and then move to Mesa, Ariz., to join a private pathology group based in Tempe, Ariz. Our new address is 3564 N. Eagle Canyon, Mesa, AZ 85207." • **Douglas R. Eden**,

PetE: "Earned an MBA in December 1997." • **Richard W. Hoffman**, ME: "I started Hoffman Packaging Systems LLC in October 1997 as an independent agent for manufacturers of packaging equipment and machinery. Based in Wildwood, Mo., I am truly enjoying my new entrepreneurship and the freedom to make all of the business decisions." • **Steven W.**

Miller, PetE: "Amy and I have two girls, Katy, 4, and Jessica, 1. I work for an environmental firm and Amy teaches elementary education in Paducah, Ky." • **Leisa Stevens**, Hist: "Just received a promotion to litigation paralegal coordinator for four Stinson, Mag and Fizzell locations. Still no kids, but four great cats!"

From the Mercy Ship • Part II

JUNE 1998

The sea was like a mirror and the stars seemed to cover the whole sky. The evangelism team members, part of the M/V Island Mercy's crew, all strained their eyes to catch the first glimpse of any kind of light on the darkened shoreline. Suddenly a light flickered out of the darkness and they knew they had arrived. The trip from Lautoka had taken ten hours across 60 miles of open ocean and the Mercy Ship's crew was eager to go ashore to do their thing.

The invitation to visit the isolated village of Yasawara on the island of Yasawa in northern

Fiji, did not come via the usual channels. It all started over four years ago when David Cowie, Director of Mercy Ships Pacific, decided to throw a bottle containing information about Mercy Ships over the side of the ship while serving on outreach in the Tokelau Islands.

A year and a half later the bottle washed up on a sandy beach near the village of Yasawara. The pastor of the local church immediately wrote pleading for assistance. Now, four years later, a team was able to visit the village.

The village is almost completely cut off from the rest of the island with no electricity, roads or health care facilities. The local people fed the team each day on what they had grown in their gardens and what they had caught in the lagoon. Each day the village children, some as young as 6 years old, begin their long three-mile walk to the next village for schooling, returning as the sun sets.

David Cowie, the team leader, said, "My heart went out to these children. We had to do something, so it was decided. The M/V Island Mercy will return to Yasawa in late July, right in the middle of winter, with our usual dental and optical teams. We are hoping to establish a small clinic in the village and install a new water tank and pumping system to replace the water tower that was blown down by the last hurricane."

TUESDAY, 2 JUNE 98, along late in the afternoon was the first that I had heard of the island, the bottle or the newly proposed outreach project. David sent an e-mail to the ship which was only halfway through our fortnight's outreach trip to Lifuka Island. Then we were going to work another fortnight on Vavau in Tonga. Brian Kawe, the ship's director, called me to the office and showed me the message: "I had an excellent time in Yasawa. The village elders have written a letter asking us to bring the ship to their village. I would very much like to do so as it is a perfect anchorage off one of the nicest beaches in Fiji. Mercy Ships will be donating a water tank and pump to the Pastor there and the village has asked for some dental and optical work. The dates would be from the 26 July - 09 August.

"I would like to suggest we ask George and Joyce to join us for the two weeks and we find one optometrist to work with a core team... the village has only 200 people..."

"I know that space on board will be difficult to find but perhaps we could 'squash-up' for just two weeks! ... Discuss it with George and see if he is interested."

"Yes. I am interested. I came down under to be a dentist. Last year they only scheduled 29 days of medical/dental outreaches. They promised me more this year. This is what I came for. Yes! We will go!

"2 July 98 Hi George, We have no ABSOLUTELY fixed sailing time for Yasawa but we would like to sail no later than 1200hrs on Sunday the 26th July. We hope to be back in Lautoka, Fiji, no later than 1200hrs Sunday the 9th of August '98" wrote David Cowie.

"Concerning the accommodation problem, there are no hotels close to Yasawara Village and the one lodge on the island is \$281 per person per night. Now, George, I know you dentists are 'loaded' but I think you might even choke on that price! We are aware that accommodation is going to be tight on board but I think we have worked out something for you and Joyce."

Well, friends and neighbors, there you have the information. We now have our airline tickets from our present home in Australia back to Fiji on Saturday, 25 July '98 returning Wednesday, 12 August.

Editor's note: George W. Karr, LSci'92, is a Rolla dentist. This is the second letter he's written while working as dental and medical coordinator for Mercy Ships, a missions organization.

G I I V I I N I G

Product that no one wanted rings up funds for UMR, thanks to Year 2000 bug *By Marianne Ward*

Six years ago, **Rex Widmer**, CSci'72, couldn't find a taker for his Portfolio Analyzer. An asking price of \$150,000 for the entire product and associated rights seemed fair to him, but no one even came forward with a legitimate offer for his software analyzer of "dinosaur" code. Personal computers dominated the market, driving mainframes into near extinction. Or so potential buyers thought.

Widmer of Shawnee Mission, Kan., grimaces when he thinks about how close he came to selling the software for a fraction of its worth today.

"I had been willing to sell the entire set of technology outright for what today is the gross for less than 10 licenses," Widmer says. "I would have sold it lock, stock and barrel."

Fortunately for Widmer and UMR, no one wanted the software then. But everyone with a mainframe seemingly needs it now. Although it wasn't created to combat the Year 2000 "computer bug," it works wonders for locating the lines of code that need to be changed to fix the problem. Widmer's analyzer locates the date code lines so they can be reprogrammed to recognize that years have four digits, not just two; thus eliminating confusion about what year it is.

"The tool does nothing that someone who is familiar with codes and compilers can't do by hand, one or two programs a day; however, this will take the largest installation that we've ever encountered and do the entire installation in one day," Widmer says. "It will munch through 100,000 programs — perhaps million lines of code — in a day. Our normal test case is to do 20,000 programs in a bit over an hour."

While this program has been successful, four others of Widmer's have failed to make it. That's why Widmer was a bit skeptical himself when he pledged the 1 percent of gross sales for this software to UMR.

"I kept reading about this thing called OGS (Order of the Golden Shillelagh, for donors who give \$10,000 or more to UMR)," Widmer says. "It looked interesting. I said, 'Here's this looney idea. ... Let's make this an interesting game; let's pledge 1 percent of the gross. If this tool doesn't make it, we'll find something else to make the \$10,000.'"

The first year Widmer sold three licenses for his analyzer and sent the MSM-UMR Alumni Association a check for \$450,

more than four times his annual \$100 pledge. In 1994, he sold eight licenses; in 1995, 13; and in 1996, he sold 30-something, pushing his total donations over the \$10,000 mark. In 1997, he sold more than 50 and gave more than \$10,000 that year alone. Now, he's pledged to fund a scholarship, and this looks to be a boom year for his analyzer. By May, sales had exceeded

annual sales goals, meaning Widmer is on pace for gifts of \$15,000 or more to various areas of campus.

Widmer also gave a "backend analyzer" problem to a group of UMR senior computer science majors for their capstone project in the spring. "Backend analyzers are technology demonstrators," Widmer says. "A backend analyzer doesn't usually answer a particular question the customer has, but it gives them a pattern or demonstration from which they can create their own solution. I would normally ship a problem like this to a contractor, but I thought it would be interesting for students to have hands-on experience with a real-world problem."

Laura Tweedy, CSci'98, served as the project leader for the team, which included fellow senior computer science majors **Nick Polizzi**, **Ryan Lantzer**, **Carson Grider**, **Gary Leftridge** and **Matt Kolker**.

"I am interested in the COBOL language and I thought this would be a good way to see some real-world applications," Tweedy says. "I learned that COBOL in the real world is much more complicated than in class."

She also learned that organizing people is much more complicated. "The code we wrote was not particularly earth-shaking as far as algorithms or complicated procedures, so most of what I learned concerned group dynamics," Tweedy says. "I learned that your team members' attitudes can make all the difference in the world."

Attitude and perseverance do make all the difference in the world, Widmer says. "That's probably the most important lesson students can learn from a real-world project."

After all, if others had embraced his project and believed in him, he wouldn't be where he is today.

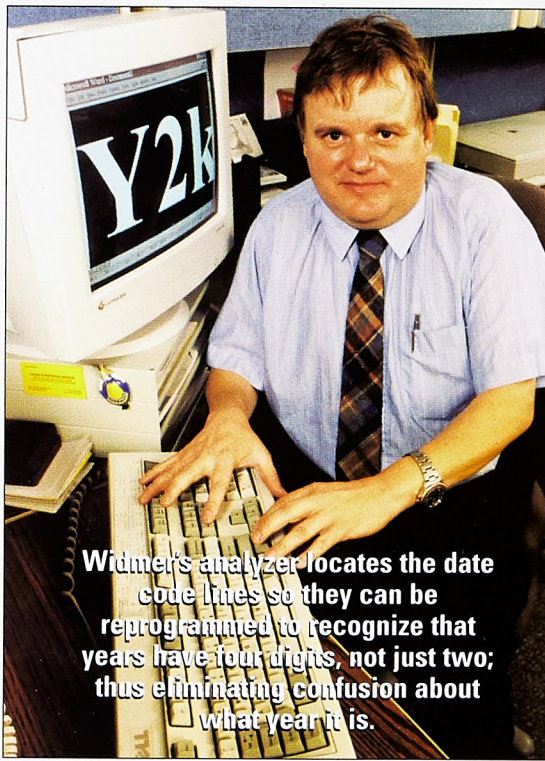


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HYPNOTIC BANNER

In the spring of 1996, a hypnotist was brought to campus for an evening's edifying lecture. The hypnotist asked those hypnotized if anyone had any complaint about any teacher. One person spoke up and said that this one teacher always stood in front of the blackboard while writing things that the students needed to copy. The hypnotist re-hypnotized the guy and told him to stand up and start to sing "The Star Spangled Banner" each time the teacher did it. The student could not stop himself and did it. Often, the class was completely disrupted each and every time. It was good training for the instructor, but the student got an F anyway.

—Gerald Hoffstetter '59

Rafaelle, PhDPhys., was recently promoted to an associate professor of physics and space sciences at Florida Tech. • Kenneth B. Rigshy, MINE: "Still

FROM FUTURE UNIVERSITY: "I am a project engineer with Monsanto Envirochem and I am an inside plant engineer with Brooks WorldCom in St.

engineering program director in 1997 and now is chair of the school's mechanical and civil engineering department.

Swenly holds a master's degree from the University of Florida. He also is a graduate of the Engineer Officers Basic Course from the U.S. Army Engineer School in Virginia.

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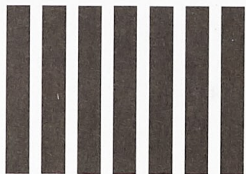
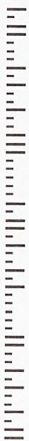
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She also learned that organizing people is much more complicated. "The code we wrote was not particularly earth-shaking as far as algorithms or complicated procedures, so most of what I learned concerned group dynamics," Tweedy says. "I learned that your team members' attitudes can make all the difference in the world."

Attitude and perseverance do make all the difference in the world, Widmer says. "That's probably the most important lesson students can learn from a real-world project."

After all, if others had embraced his project and believed in him, he wouldn't be where he is today.

1989

Aaron J. Ayer, EE: "I can't believe they let me in. Three years with Coming in North Carolina in production and engineering was enough. I am headed for Harvard Business School in January 1998." • **Stephen D. Hagen**, EE: "Kathleen, EE'88, and I are living in Austin, Texas, with our daughter Paige Louise." • **Richard A. Sparrow**, Phys, MSPhys'95: "Angelia, Engl'91, and I are living in West Memphis, Ark. I am teaching chemistry, physics and principles of technology at Hughes High School. (Hughes is the basis for the movie 'The Apostle.') Angeli is working as a part-time inventory counter and cookbook writer, running a small costuming business at home and being a full-time mom to Victoria, 6, Christopher, 3, and Jonathan, 3 months. We will celebrate our ninth anniversary this year. We would love to hear from the TJ lunch bunch or IVCF people." • **Karen D. Squires**, CSci: "I'm still with Monsanto; recently became manager, IT security. I'm very busy since I'm also in Washington University's executive MBA program." • **Robert A. Weinmann**, EE: "Recently promoted to manager of marketing and customer services for the speciality motor division of Emerson Motor Co."

1990s

1990

Rebecca M., Engl, and **Dirk J. Frisbee**, Engl'93: "We now have two daughters, Rachael, 3, and Katherine, 1." • **Allan D. Johnston**, EE: "The new annex looks super from the outside. Keep up the great academic and research work." • **Donald J. Lebaige**, AE, recently received the Navy and Marine Corps Commendation Medal for meritorious service while serving at Trident Training Facility, Kings Bay, Ga. • **Marylou (Shomaker) Legsdin**, Engl: "I am now director of development for Methodist Retirement Homes of Kentucky. **Pete**, Econ'70, and I are staying very busy and having lots of fun." • **Mark L. Louder**, CerE: is a "LAN administrator/PC support tech at NEXTEL Communications." • **Ryne P. Raffaele**, PhDPhys, was recently promoted to an associate professor of physics and space sciences at Florida Tech. • **Kenneth B. Rigsby**, MinE: "Still

working for Arch Coal on the Kentucky and Virginia borders. Arch merged with Ashland Coal, then acquired Arco Coal to become the number two coal producer in United States."

1991

Cary A. Guffey, LSci, received a doctor of philosophy degree at the University of Southwestern Louisiana on May 16, 1998. • **Thomas M. Miller**, CerE, received a doctor of philosophy degree in materials science and engineering on Dec. 20, 1997, from the University of Florida. • **Angelia M. Sparrow**, Engl'91: "Richard, Phys'89, MSPhys'95, and I are living in West Memphis, Ark. Richard is teaching chemistry, physics and principles of technology at Hughes High School. (Hughes is the basis for the movie 'The Apostle.') Angela is working as a part-time inventory counter and cookbook writer, running a small costuming business at home and being a full-time mom to Victoria, 6, Christopher, 3, and Jonathan, 3 months. We will celebrate our ninth anniversary this year. We would love to hear from the TJ lunch bunch or IVCF people." • **Jeffrey S. Weaver**, MSEE, MSEMgt'92: graduated with honors from the University of Maryland School of Law in spring 1998, and accepted a position with Sterne, Kessler, Goldstein and Fox, a law firm in Washington, D.C., which primarily deals with intellectual property law. "I will begin work this fall, after I finish taking the Maryland bar exam. Pete, Bruce and others, sorry I haven't kept in touch, send me an e-mail at pbjn63c@prodigy.com."

1992

Vick Agarwal, EE, MSEMgt'94: "Accepted a position with Hewlett Packard in Loveland, Colo, and started working in January 1998 as a manufacturing development engineer. I'm living in Fort Collins, Colo. My wife Neeta just started working in Fort Collins at Hewlett Packard as well." • **Susan K. (Anyan) Collins**, EE, married James R. Collins March 10, 1998. She is a client services manager at Schlumberger Resource Management Services Inc. in Columbus, Ohio. James is a 1988 electrical engineering graduate from Purdue University. • **Kirk D.**, ME, and **Brook Grantham**, ME: "Kirk is a project engineer with Monsanto Envirochem and I am an inside plant engineer with Brooks WorldCom in St.

Hypnotic Banner

In the spring of 1956, a hypnotist was brought to campus for an evening's edifying lecture. The hypnotist asked those hypnotized if anyone had any complaint about any teacher. One person spoke up and said that this one teacher always stood in front of the blackboard while writing things that the students needed to copy. The hypnotist re-hypnotized the guy and told him to stand up and start to sing "The Star Spangled Banner" each time the teacher did it. The student could not stop himself and did it. Often. The class was completely disrupted each and every time. It was good training for the instructor, but the student got an F anyway.

—Gerald Hoffstetter'59

Alumni in the NEWS

UMR grad's company now part of Emerson Electric

PC&E, a leading process automation consulting and electrical engineering business in St. Louis, co-founded by **Richard L. Arnold**, EE'69, is now part of Emerson Electric Co.'s Process Group. But the PC&E name, familiar to many St. Louisans, will stay the same and will function as an independent company within the Emerson Process Group.

Arnold continues as vice president of PC&E, which also has offices in Kansas City, Mo., and Decatur, Ill.

PC&E, which has about 200 employees, serves chemical, pharmaceutical, utilities, food and beverage, and semiconductor industries.

UMR grad honored for teaching excellence

Brian Swenty, CE'76, PhD CE'89, an assistant professor of mechanical and civil engineering at the University of Evansville, Ind., was named 1998 Outstanding Teacher during UE's May commencement.

A UE faculty member since 1993, Swenty was UE's civil engineering program director in 1997 and now is chair of the school's mechanical and civil engineering department.

Swenty holds a master's degree from the University of Florida. He also is a graduate of the Engineer Officers Basic Course from the U.S. Army Engineer School in Virginia.

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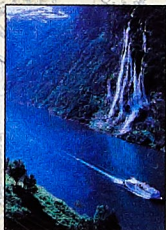


11- or 12-day luxury cruise aboard the Norwegian Dynasty. Fall/Winter '98 and Spring '99 departures. Starts at \$1,899.

Acajutla, El Salvador...Acapulco, Mexico...Cartagena, Colombia...Corino, Nicaragua...Golfito, Costa Rica...Montego Bay, Jamaica...Puerto Caldera, Costa Rica...Puerto Quetzal, Guatemala...Puerto Limon, Costa Rica...San Andres, Colombia...San Blas, Panama...discover the delights of these locations and experience the thrill of crossing the Panama Canal and learning about the canal's history, operation and points of interest.

Eastern Caribbean Cruise

A 7-day cruise aboard the outstanding CostaVictoria. From \$929 to \$1,299. Departs from Kansas City on Jan. 3, for exotic ports of call—Ft. Lauderdale, San Juan, St. Thomas/St. John, Serena Cay/Casa de Campo and Nassau—returning on Jan. 10.



Scandinavia Tour

From \$2,269. Dates and prices tentative. Tour the Scandinavian cities of Copenhagen, Oslo, Geilo, Bergen, Lillehammer and Stockholm and cruise the fjords. Departures from major Midwest cities all through the month of May 1999.

Contact the alumni office for details!

Phone: (573) 341-4145 • E-mail: alumni@umr.edu

Louis." • **Rebecca Kuhr**, GGph, BSGeoE'92, is a staff geological engineer at Burns and McDonnell. • **Quincy London**, LSci: "Nicole, ND'94, and I are teaching at Ozark Technology Community College. Nicole is teaching anatomy and physiology and pathophysiology. I am teaching introduction to life sciences and health and wellness." • **Ratthima Manalert**, MSCerE, PhDCerE'96: "I received a JICA scholarship to be trained on electronic materials for four months in 1997 in Japan." • **Travis B. Scott**, GeoE: "Vellela, GeoE'93, and I are heading back to school again. We don't know where yet, but we are anticipating that life will soon become quite challenging again." • **Deanna Valentino**, LSci: "I am back in New York again and currently working at Laboratory Corp. of America as a medical technologist, specializing in microbiology."

1993

Bryan C. Bross, GeoE: "Recently registered as geologist in both Missouri and Illinois. Expect to take professional engineer exam in fall 1998." • **Elizabeth Dare**, CE, has joined Burns and McDonnell Engineers Architects Consultants, as a staff civil/transportation engineer. • **Dirk J. Engl**, and **Rebecca M. Frisbee**, Engl'90: "We now have two daughters, Rachael, 3, and Katherine, 1." • **Heather R. Governick**, GeoE: "We bought a house (my fiance, John Stork and I), our new address is: 2015 Urban Dr., Brentwood, MO 63144." • **Garry A. Haase**, EE: "The Air Force transferred me to Cape Canaveral, Fla. I'll be overseeing the assembly and launch of satellites on Atlas rockets." • **Anthony "Tony" Phillips**, CSci: "Yo Miners! I'm still working at Texas Instruments in Dallas, Texas, and celebrated my fifth service anniversary on June 1. I just graduated in May with a master of science in telecommunications from Southern Methodist University, and am enjoying having my evenings and weekends back for the first time in almost three years! My wife, Ami and I are still enjoying life in Murphy, Texas." • **Roger Protzman**, GeoE, is an environmental engineer with emphasis on consulting and design for water and wastewater treatment facilities for Snyder and Associates in Akeny, Iowa. • **Scott D. Repke**, AE, BSCE'97, has joined Burns and McDonnell Engineers, Architects, Consultants as an assistant civil engineer. • **Kerry Scott**, MSCE, has joined the staff of Scott Consulting Engineers P.C. in Springfield as a project engineer in transportation. • **Vellela M. (Grote) Scott**, GeoE: "Travis, GeoE'92, and I are heading back to school again. We don't know where yet, but we are anticipating that life will soon become quite challenging again." • **William H. Steininger**, CE, has completed his final requirement for registration as a professional civil engineer by passing the principles and practice of engineering examination.

Gifts

to the Chancellor's Residence



Photos by Bob Phelan, Photomasters

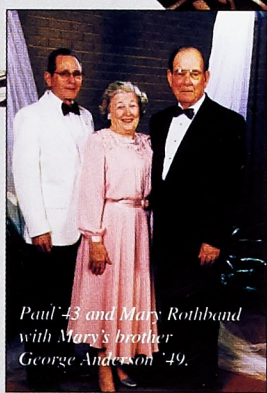
Alumni and Friends continue to give to the Chancellor's Residence.

Recent gifts to the Chancellor's Residence include two Tiffany bowls and a silver pitcher donated by Paul, '43, and Mary Rothband. The Tiffany bowls (*one of which is shown at left along with the silver pitcher*) were given by D. C. Jackling to Mary's parents, Mary McCrae and H.G. Anderson, '09, at their wedding in 1920. Mary McCrae was the 1916 St. Pat's Queen.

The postcard of the Chancellor's Residence (*pictured at left*), postmarked 1908, was donated by Randall Dreiling, '81.

Mrs. Park also is interested in completing a set of antique plates, which depict scenes from the UMR campus in the late 1800s. The plates were given as premiums to customers of Faulkner's Drugstore, which was located on Pine Street. There is believed to be four plates to the set and the Parks are looking for Norwood Hall and the Chancellor's Residence. Lenore Morris began the collection by donating two of the plates—the Rolla Building and the "Old Chem" Building.

If you are interested in contributing historic mementos from the late 1800s to the Chancellor's Residence, contact Mrs. Park at (573) 341-4118. Items needed for the residence include a silver coffee and tea pot (*the existing one has a broken lid*) a silver tray, furniture, an end-table, and a grandfather clock.



Paul '43 and Mary Rothband with Mary's brother George Anderson '49.

Get your Green!



HELP KEEP THE TRADITION ALIVE!

ST. PAT'S '99 SWEATSHIRTS NOW AVAILABLE

NUMBER ORDERED:

SIZE:

Small
Medium
Large
X-Large
XX-Large

Shirts sized S-XL are \$20 each, and XXL shirts are \$21.
Please include \$5.50 shipping and handling for each item ordered.

NAME _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____

Please send this form and your payment to:

Patty's University Bookstore Inc.

1106 Pine Street

Rolla, MO 65401

To order by credit card, call Patty's University Bookstore

at 1-800-667-8257, or fax this order form

to the bookstore at 1-573-364-4742,

or e-mail pattys@rollanet.org.

This is a public service announcement from the MSM-UMR Alumni Association.

1994

Rosanne Emmett, ND: "Patrick, Hist'87, is now a cartographer at USGS in Rolla. Had fourth child in November 1997. I am working locally with the developmentally disabled." • **Mark S. Goldsmith**, ChE: "My wife and I moved to the Chicago area to work for the Centeon Pharmaceuticals." • **Brian Haggard**, ND: "Going to Ireland for the 'International P Workshop' to present a poster presentation entitled 'Phosphorus Dynamics in Stream Ecosystem.'" • **Nicole London**, ND: "Quincy, LSci'92, and I are teaching at Ozark Technology Community College. I am teaching anatomy and physiology and pathophysiology. Quincy is teaching introduction to life sciences and health and wellness."

1995

Mindy M. Gardner, GeoE: "I'm enjoying Atlanta and my job at EPA." • **Reginald C. Johnson**, ME, received his juris doctor degree on May 16, 1998, from Loyola University, New Orleans. • **Fred W. Niemeier**, MetE: "I have concluded that working for a living is too burdensome, so I'm going back to school. I will be attending the Harvard Business School this fall to work on an MBA." • **Darrell K. Williams**, MSEMgt: "Attending UMR has been very fruitful to my career, along with a lot of hard work and long hours. After graduation, I was promoted in the U.S. Army to the rank of major, U.S. Army Corps of Engineers, as a project engineer/manager for the Corps of Engineers at Scott AFB, O'Fallon, Ill., managing the military construction program. Decided to return to private industry with Armstrong World Industries Inc., the world's leading resilient floor manufacturer. I moved to Lancaster, Pa., to become a production supervisor/coordinator, and then was promoted to plant engineer manager at Armstrong's Stillwater, Okla., plant in March 1998. If you're ever in Stillwater, look me up."

1996

Petra Dewitt, Hist: "Have been accepted in doctoral program at University of Missouri-Columbia with teaching assistantship. I will begin working in August 1998." • **Angela D. Herzog**, CE, and **Douglas J. Kolb**, CE, were married April 25, 1998. Angela is a civil engineer with Engineering Surveys & Services in Jefferson City, Mo., and Douglas is a civil engineer with Osage Constructors in Fulton, Mo. They live in Jefferson City, Mo. • **Anthony S. Mezines**, CE, has joined Clayco Construction Co., as a project engineer. • **Lynn R. Morak**, EMgt, married Harold Feagan on April 4, 1998, in St. Charles, Mo. Harold works for City Utilities in Springfield and Lynn is the plant manager for HCI Chemtech Distribution, a chemical distributor in Springfield, Mo." • **Peter T.**, EE, and

Betsy (Skiles) Mueller, LSci: "We were married on Nov. 1, 1997. We are both employed by Raytheon Systems Co. in Denver, Colo., where Pete is a systems engineer and Betsy is a software developer."

1997

Deborah J. Black, CE: "Thomas M. Huffman, EMgt'97, and I were married on April 25, 1998. We are now living in Lee's Summit, where I am a design engineer for MoDOT and Thomas just changed jobs to plant engineer for Milbank Manufacturing." • **Craig M. Dahlgren**, CE, has joined Atlas Iron Works Inc. as a sales engineer in the Atlas Mezzanines Division. • **Bridgette C. Ganley**, EMgt, has joined the

marketing department at Malisko Engineering Inc. • **Allyson M. (Taylor) Hall**, CSci: "I have recently gotten married to Lt. Jason Glenn Hall." • **Thomas M. Huffman**, EMgt: "Deborah J. Black, CE'97, and I were married on April 25, 1998. We are now living in Lee's Summit, where she is a design engineer for MoDOT and I just changed jobs to plant engineer for Milbank Manufacturing." • **Alex Laputz**, EMgt, has accepted a managerial position with Eagle-Picher Inc. of Joplin, Mo., which produces solar cell batteries for NASA. • **Jennifer Lawrence**, CE: "I joined J.S. Alberici Construction Co. Inc. as a project engineer in March 1998. I am working at the Boeing Delta IV Rocket Plant project in Decatur, Ala." • **Scott S.**

Preston, CE: "I completed the engineer officers basic course at Fort Leonard Wood, Mo., in January. Completed ranger and airborne training at Fort Benning, Ga., following EOBC. Currently stationed in Korea as a platoon leader with the Second Engineer Battalion." • **Patrick Schroeder**, CE, has been hired as a construction estimator by the Reno Construction Division of Apac Inc., based in Overland Park, Kan. • **Sean C. Teitelbaum**, CerE: "Graduated OBC at Redstone Army Arsenal, Ala., six out of 23 in my class. Currently in military school." • **Brian R. Tenholder**, MetE: "I am currently working for Foundry Service Co., as the plant metallurgist in North Carolina. My boss is Mike Windish. MetE'70."

Coming Soon:

The MSM-UMR On-Line Community

The MSM-UMR Alumni Association has recently signed with Harris Publishing Co. Inc. to provide an On-Line Community for our alumni. We are scheduled for January 1999 implementation. This will be a web site, maintained by Harris, on its server, that will provide the following services for our alumni:

- "e-mail for life" forwarding service
- personal web site space
- on-line alumni directory (name, class year, home address, business address, e-mail address, and personal web page URL)
- business advertising area
- on-line chat/bulletin board/listserv possibilities
- career services area
- distance learning and educational forum possibilities

Some of these services will carry minimal charges (personal web space, beyond your initial complimentary allotment; business advertising; on-line directory access for those who did not get the 1995 printed copy of the directory), but most will be free to alumni.

How we use the community is still not completely established. Now's your chance...what would YOU like to see in your On-Line Community? Fill out the form on the right and let us know what you think!

Some of you may prefer not to be listed in the on-line directory...just let us know if this is the case, and we'll take care of it for you.

MSM-UMR On-Line Community Survey

These parts of the proposed on-line community interest me most:

These parts interest me least:

I'd like to see listservs/chat areas/bulletin boards set up for the following groups (i.e., class years, departments, athletics, music, etc.):

Check here if you don't want to be listed in the on-line directory: _____

Send this form to
 MSM-UMR Alumni Association
 University of Missouri-Rolla
 Castleman Hall
 1870 Miner Circle
 Rolla MO 65409-0650
 or fax it to (573) 341-6091

(Cut along dotted line and return form)

Memorials

1931



Jack N. Conley, PetE, was retired from the Arizona Oil and Gas Conservation Commission and was self-employed as a geological consultant. He was a past section leader and living in

Tulsa, Okla. †Jan. 22, 1998.

1932



Herbert O. Tittel, EE, BSCE'33, was retired from Monsanto Co. While attending MSM-UMR, he played basketball and was a member of the track team. †March 26, 1997.

Charles S. White, CE, was retired from T.L. James and Co. Inc. While attending MSM-UMR, he was a member of Kappa Alpha, Glee Club and Interfraternity Council vice president. †Oct. 17, 1994.

1933



Thomas V. Cummins, CE, retired from the United States Geological Survey with more than 33 years of service. He and his wife, Mildred, were living in Arvada, Colo. †May 2, 1997.

1940



Vernon E. Unger, ME, was retired from Giddings and Lewis. While attending MSM-UMR, he was a member of Kappa Sigma, ASME, Student Council, Glee Club and intramural sports. †May 14, 1998.



F. Hugh Wilson, GGph, was retired from international exploration and production. While attending MSM-UMR, he was a member of Sigma Pi, MSM Band and intramural sports.

†Dec. 15, 1997.

1941



Robert M. Sexton, EE, was a member of Phi Kappa Phi and Tau Beta Phi while attending MSM-UMR. He served in the U.S. Army Corps of Engineers from December 1941 until

January 1946. He received the Presidential Citation Bar for planning and supervising the construction of an airfield on one of the Mediterranean islands during the invasion of Sicily. He was also recognized for reconstructing more than 100 airdomes for the Allied air campaign in France. In January 1946, he returned to Westinghouse Electric Manufacturing Co. †April 25, 1998.



James J. Springer, EE, was retired from the Public Service Co. of Colorado. He and his wife, June, were living in Green Valley, Ariz. †May 2, 1998.

1944



George Tatoian, ChE, was self-employed for Cardiac Electronics for more than 25 years. While attending MSM-UMR, he was a member of Lambda Chi Alpha and AIChE †Nov. 5, 1996.

1947



Charles R. Counts, MetE, was a member of the "M" Club, Tech Club, Blue Key, Phi Kappa Phi, football squad and played basketball while attending MSM-UMR. He was a resident of Kermit,

Texas. †March 18, 1998

James O. Huffer, ND, †Dec. 26, 1997.



Charles E. Shulze, CerE, MSCerE'51, was living in Sun City, Ariz., where he was a section officer in 1996 and had lived since retiring from United Aircraft in 1977. From 1949 to 1953, he was a member of the ceramic engineering faculty. †April 20, 1998.

George W. Walpert, ChE, was retired as manager from Dolar Matts Inc. While attending MSM-UMR, he was a member of the Tech Club, AIChE, Alpha Chi Sigma, Photography Club and Phi Kappa Phi. †March 15, 1998.

1948

William J. Grady Jr., CE, was retired from Emerson Electric. He was a member of ASCE, intramural sports and was on the honor list while attending MSM-UMR. †April 7, 1998



Worth A. Irwin, CE, was retired from M. M. Sundt Construction Co. While attending MSM-UMR, he was a member of ASCE, received second honors and was on the honor list. Worth was living in Tucson,

Ariz. †March 9, 1998.

Theodore J. Kinsman, CE, was in the U.S. Navy for four years and served in the South Pacific during World War II. He was a registered professional engineer and was employed for 37 years by the Missouri Department of Transportation, District 3. He and his wife, Mary Jeane, were residents of Hannibal, Mo. †March 31, 1998.

Ray L. Trogdon, EE, retired after 24 years of service at the University of Illinois. While attending MSM-UMR, he was a member of Alpha Lambda Tau, Engineers Club, AIEE and ROTC Band. He and his wife, Betty, were residents of Perrysburg, Ohio. †May 21, 1996.

1949



Charles E. B. Tothill, MinE, served in the U.S. Navy in the V-12 program and UNC at Chapel Hill during World War II. After graduation he worked as a petroleum engineer with Texaco, Murphy Corp. (Arkansas), Coastal States and as vice president of Tejas. He later formed Portland Energy where he worked until retirement. Charles served on the Portland City Council and mayor for three terms. While attending MSM-UMR, he was on the track team and trainer for the football team. He and his wife, Martha, lived in Portland, Texas. †Jan. 30, 1998.

1950

Amos E. "Gene" Barnes, ME, retired from Thiokol Corp. after 36 years of service. He and his wife, Patricia, were living in Hampton Grove, Ala. †Jan. 8, 1997.



Ernest B. Hall, ME, was a World War II U.S. Navy veteran. He worked for IBM and retired in 1987. He was a member of ASME and was on the honor list while attending MSM-UMR. He and his wife,

Eileen, were residents of Willard, Mo. †April 26, 1998



Ralph J. Knoernschild, ChE, was retired from Du Pont with more than 28 years of service. While attending MSM-UMR, he was a member of Gamma Delta, AIChE, and was on the honor list. He and his

wife, Margaret, lived in Richmond, Va. †Sept. 5, 1996.



John W. Parks, ME, spent his career working on environmental projects. While attending MSM-UMR, he was a member of Tau Beta Pi, Photo Club and Alpha Psi Omega. He and his wife, Margaret, lived

in Arizona. †Nov. 29, 1997.

1952



Donald E. Schmitt, ME, was retired from McDonnell Douglas. While attending MSM-UMR, he was a member of Gamma Delta and Triangle. He and his wife, Joyce, were living in Chesterfield, Mo.

†March 28, 1998.

1953



J. Lloyd Mason, ChE, was a retired engineer from Monsanto Co. He and his wife, Betty, were living in Bonne Terre, Mo. While attending MSM-UMR, he was a member of Sigma Phi Epsilon, AIChE and

Alpha Chi Sigma. †March 4, 1998

1957



William M. Jennings, ME, was a retired field engineer at Caterpillar Inc. He and his wife, Lorna, lived in Heber, Ariz. While attending MSM-UMR, he was a member of Glee Club, SAE, Pi Tau Sigma and

was on the honor list. †Oct. 9, 1997.

1958



Melvin C. Hudson, Phys, was retired from the U.S. Navy. While attending MSM-UMR, he was a member of the Shamrock Club and Sigma Pi Sigma. Melvin's death was reported to UMR in May 1998.



O. David Niedermeyer Jr., MinE, was a member of SME and AIME while attending MSM-UMR. He and his wife, Carol, lived in Plano, Texas. †July 26, 1996.

1965



John M. Carter, EE, was a member of the Photo Club, Radio Club and SAE while attending MSM-UMR. He was a resident of Villa Ridge, Mo. †April 17, 1998.

1971

Joe D. Chaffin, CE, was self-employed as a field engineer. He was living in Ozark, Mo. †Jan. 23, 1989.

Claud R. Craver, CE, †Nov. 30, 1997.

1972

Joseph A. Dobrowolski, ME, was a member of Sigma Phi Epsilon and was a member of St. Pat's Board while attending UMR. †Aug. 7, 1997.

1984

Dale E. Mueller, EE, MSEE'86, was an engineer at McDonnell Douglas Corp. He and his wife, Kimberly, were living in Hazelwood, Mo. While attending UMR, Dale was a member of the Tech Engine Club. Dale's death was reported to UMR in March 1998.

1996

Lionel A. Langebartels, MSEMgt, was an electronic engineer for the U.S. Army. He and his wife, Martha, lived in Florissant, Mo. †Jan. 30, 1998

Friends:

Ramona Ahl, wife of Harry C. Ahl Jr., MetE'47.

Ruth Lucille "Lucy" Stimson Daniells, wife of Charles P. Daniells, CE'49, †April 27, 1998.

Judy Erwin, wife of Larry L. Erwin, CE'65.

Victor L. Gauthier's death was reported to UMR in March 1998.

John P. Govier, was a petroleum engineer and worked for Phillips Petroleum for many years before becoming a professor here in 1957 until his retirement 21 years later. He and his wife, Virginia, were residents of Rolla. †April 25, 1998.

William S. Jenks Jr. was a St. Pat Honorary Knight in 1984. †March 15, 1998.

Eilyeen Broyles Livingston, wife of John Livingston, CE'39. †April 30, 1998.

Alice McGovern, wife of James J. McGovern, ME'48. †March 28, 1997.

Edna Rizer's death was reported to UMR in March 1998. She was the wife of Gene C. Rizer, CE'60.

Marie Sidener, was a St. Pat Honorary Knight in 1978. †March 6, 1998.

J. Michael Vickers was a UMR professor emeritus. †March 6, 1998.

POLICY FOR PUBLICATIONS OF ALUMNI NOTES IN THE *MSM-UMR ALUMNUS*

- ♣ 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.
- ♣ The *MSM-UMR Alumnus* will announce deaths if information is submitted by an immediate family member, or from a newspaper obituary.
- ♣ Obituary information on alumni spouses will be printed only if the alumnus/na specifically requests that we print it.
- ♣ We will print addresses if specifically requested to do so by the alumnus submitting the note.
- ♣ We reserve the right to edit alumni notes to meet space requirements.
- ♣ We will use submitted photos as space permits.

MEMBER BENEFITS

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

Travel Tours:

Imperial Russian Waterways
Western Mexico/Panama Canal Crossing
Scandinavia Tour
Eastern Caribbean Cruise

MSM-UMR:

chairs, lamps, watches, rings, pendants,
Platinum/Gold MasterCard,
License plates for Missouri residents only

Career Assistance:

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

Alumni Association Services:

Access to Alumni Office via e-mail
(alumni@umr.edu).

Alumni locator service to
help you find lost 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
University of Missouri-Rolla
Castleman Hall
University of Missouri-Rolla
1870 Miner Circle
Rolla MO 65409-0650

phone: (573) 341-4145
FAX: (573) 341-6091

e-mail: alumni@umr.edu

A letter from UM System Pre



To MSM-UMR Alumni:

I was familiar with the excellent reputation of the Rolla campus long before I became president of the University of Missouri System. As I reflect on my first year in this role, it is clear why MSM-UMR fully merits that reputation. Rolla's alumni seem to be everywhere, filling leadership roles in their work and their communities. They exemplify what can happen when strong educational programs, inspired faculty and capable students come together in a challenging atmosphere of intellectual inquiry.

During one of my first trips to Missouri last summer, I was invited to visit one of the university's distinguished alumni and a native of Rolla, Gov. Mel Carnahan. In that brief session, it became clear to me that Gov. Carnahan believes the future of the state and of the University of Missouri are inextricably linked. He understands the university's vital and unique role in Missouri higher education. He also understands its obligation to provide the high quality undergraduate and graduate programs so vital to the prosperity and well being of our people and our state.

I've made several visits to the Rolla campus and I have traveled extensively throughout the state in the past year. I have visited with alumni and friends of the university, elected officials, education leaders, editors and publishers, faculty and staff members — including Extension personnel in various parts of the state — and with students and parents. I've learned that Missourians share a sense of ownership and pride in the University of Missouri. They also are remarkably supportive of our achievements and our efforts to continually improve.

I found a full agenda of issues waiting for me when I arrived. Chancellor John Park and I have been hard at work on several assignments with far-reaching implications for the university's future.

For one, the university's initial opportunity to obtain Mission Enhancement funding for targeted improvements has been successful. With support from the Coordinating Board for Higher Education, the governor and the General Assembly, nearly \$15 million in new, recurring Mission Enhancement funding has been appropriated to the university for fiscal year 1999, which began July 1. At MSM-UMR, those new dollars will be invested in improvements to undergraduate and graduate teaching, research and related support.

Systemwide, nearly \$4 million of the new funding will be invested in the very successful Endowed Chairs and Professorships Program. This project essentially more than doubles the impact of each private gift through matching funds provided by the state. We hope to be as successful in the three years remaining in our Mission Enhancement cycle.

The university's current operating budget also includes more than \$15 million to help defray the cost of inflation. In all, our state appropriation increased by nearly 9 percent. Considering the many competing demands

President Pacheco

being put before the legislature and the governor, this constitutes very generous support for higher education and for the University of Missouri.

As Chancellor Park can attest, the officers of the university are immersed in long-range strategic planning efforts that aim to set specific goals and to continually measure our progress toward their achievement. If MSM-UMR's receipt of the coveted Missouri Quality Award is any indication, Rolla is probably ahead of the rest of the university in this regard.

The university is also embarking on a major effort to reengineer the way we do things—in finance, in student services and in human resource

With support from the Coordinating Board for Higher Education, the governor and the General Assembly, nearly \$15 million in new, recurring Mission Enhancement funding has been appropriated to the university for fiscal year 1999.

management—so that resources now invested in labor-intensive and inefficient processes can be redirected to enhancement of our core educational enterprise and improved service to our clientele.

Much of the credit for the high level of public support we enjoy today belongs to two of my predecessors, George Russell and Mel George, who served as president and interim president, respectively. Ultimately, however, it is the dedication and hard work of our faculty, staff and alumni who are responsible for the high level of public confidence in the University of Missouri.

We must, however, continue to seek improvement in selected, critical areas of performance. That is why I've taken steps to help increase our share of federal research funding. Systemwide, our federal funding of research falls short of the average of other members of the Association of American Universities by as much as \$85 million per year.

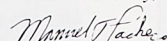
I have hired an assistant for federal relations whose major responsibility is to "inventory" our research capabilities and to mesh those strengths with federal research needs and initiatives. In addition, I have engaged a consulting firm to serve as our eyes and ears in Washington, D.C. The firm will advise us of emerging areas of research emphasis and opportunity. I am confident that the benefits resulting from these relatively modest investments will be significant. Our

earliest results, in fact, benefitted research at the Rolla campus. Our success in this endeavor will strengthen our undergraduate programs as well as our graduate education and research efforts.

Much more could be said about what has been an eventful and promising year for the University of Missouri System and for the Rolla campus. It must be said, however, that your moral and financial support, in bringing about these good times, cannot be overstated.

I am grateful for your warm welcome to MSM-UMR and for your continued loyalty to your alma mater. Alumni represent and demonstrate the most reliable measure of a university's worth. Thank you for holding Rolla's banner high.

Yours sincerely,



Manuel T. Pacheco, President
University of Missouri System

IN THE NEWS...

from your MSM-UMR Alumni Association Board of Directors

From the April 25 board meeting... silver-plated luggage tags to be sent to all donors of \$250 or more to the association, starting with June mailings... minimum to establish an endowment fund within the MSM-UMR Alumni Association is now \$5,000, up from \$2,500... plans call for greater emphasis on the 25-year reunion at Homecoming; re-vamped 50-year reunion to accommodate larger classes necessary... "Outstanding Local Section Member" award to be presented in each section... "Admissions Ambassador of the Year" award to be established... Student Organization Funding Award program guidelines in process... plans being made for Senior Pizza Party to welcome seniors and tell them what the MSM-UMR Alumni Association can do for them... "on-line community" for alumni to become reality in 1999.

Report from Legislative Recognition Day... Thanks to the following alumni and friends who attended Legislative Recognition Day and who helped thank Missouri legislators for their support of the University of Missouri: Art Baebler, Jack Bodine, Lu Bolon, Matt Coco, Dick Elgin, David Gretlein, Larry Hendren, Polly Hendren, Joe Krispin, Diana Martin, John Miles, Cal Ochs, Bob Patterson, Owen Redel, Jim Spehr, Randy Verkamp, Chris Wilson, Bob Wolf, Ralph Wolfram, John and Nancy Bartel.

Prior to visiting the legislature, the group met with campus staffers Lindsay Bagnall, Don Brackhahn, Lawrence George, Chancellor John Park, Neil Smith and Julie Turley. Cal Ochs, chair of the MSM-UMR Alumni Association's Government Relations Committee, talked to the group about issues currently active in the legislature. The University of Missouri Alumni Alliance, a group of alumni representing all four campuses, provided legislative district maps for the volunteers to present to legislators, with thanks for their continued support.

MSM-UMR Alumni Association Board of Director's Barbeque



MSM-UMR Alumni Association Board of Director's Barbeque at Don and Nancy Brackhahn's home, April 24, 1998.

Top photo, left to right: Jim Bertlesmeyer, Dick Paul and Steve Thies.

Above, left to right: Dan Carnahan, Daniel Schwent, Dave Delleart, Sarah Delleart, Karl Schmitt, Ken Riley and Erika Riley.

More new scholarships

Twelve new scholarship endowment funds were established this spring by alumni and friends, to benefit today's students. Here's a listing of all the new funds:

- George R. & Marsha K. Baumgartner Endowment for ME
- Mark W. Beard Scholarship
- James E. & Donna C. Bertelsmeyer Scholarship
- Matthew T. Busche & Tamra K. Banks Scholarship
- Central Ozarks Section Scholarship
- Greenberg Scholarship
- Onyx Narragansett Jeffery Memorial Scholarship
- Georgia Mae Smith Nash Memorial Scholarship
- Captain Aaron Robert Pogue Scholarship
- Perrin R. Roller Scholarship
- Spirit of Jackling Gym Fund
- Elaine & Warren Rutz Scholarship

OSI looking for proposals

The Open Society Institute's Individual Project Fellowships Program funds individual projects with visionary approaches to social concerns. Funded projects encompass all program areas contained within the OSI. Among the numerous program areas are law and society, drug policy, criminal justice and reproductive rights. Though most funded projects are carried out within the U.S., proposals for international projects are welcome.

For further information and an application, consult the OSI website at <http://www.soros.org/fellow/individual.html>, or call (212) 548-0119 to be added to the application mailing list.

Ark-La-Tex Section Cookout

Section President Gene Rand '62
1100 Lovers Lane, Longview, TX
75604-2801, (903) 759-1661

The spring meeting of the Ark-La-Tex Section was held on Saturday, May 30, at the home of Gene '62 and Judy Rand in Longview, Texas. The meeting began with the usual "attitude adjustment hour" followed by a hamburger cookout. The outside temperature was 100 degrees which helped get the hamburgers off to a quick start.

After dinner, president Jerry Poland '82 presided over a short business meeting. There were 11 members and guests present—many of the usual attendees were on vacation or traveling out of the area. Our thoughts were, at times, of Eilyeen Livingston who recently passed away. Eilyeen, wife of John Livingston '39, gave freely of her home in Elm Grove, La., and her time in support of section activities. Eilyeen had many friends in the Alumni Association. She will be deeply missed.

Those in attendance included John Livingston '39, John '51 and Loretta Moscardi and daughter Sharon Lee, Walt '65 Mulyca, Jerry '82 and Tammy Poland, Frank '32 and Katherine Zvanut, Gene '62 and Judy Rand.

(Submitted by Gene Rand '62)

Maryland/Virginia/DC Section St. Pat's Party

Section President
Robert J. Scanlon, '73
2408 Honeystone Way,
Brookeville, MD 20833
(301) 570-8070



On March 15, the Maryland/Virginia/DC Alumni Section held its second annual St. Pat's Party at the home of section president Bob Scanlon.

It was a truly lively gathering, what with our own version of "green beer" flowing, and more than a few stories of the good 'ol days, Alice, etc. Prizes were awarded for the most unique St. Pat's memorabilia in evidence. Among the winners was Jim Nielson's mother, Crystal, who won first prize (a selection from an assortment of UMR items) for a set of "naked leprechaun" earrings—sorry, no pictures, as this is a family publication. Tim Steadham was recognized for having come from about two hours away (Richmond, Virginia) to attend. Now that's dedication!



Doug Hughes displayed material he uses at various college fairs in the DC area to promote the university. Bob Scanlon briefed the group on the current state of the section, solicited volunteers to serve as officers for the next year, event chairman and other positions to serve the section such as scrapbook editor, etc. Bob also thanked everyone for coming out and provided some advance notice that we're planning to do another baseball game this summer after the successful event last year with the Bowie Baysox.

The alumni, friends, and spouses who participated were: Vicki Andrae '70 and husband Dale Robinson; John '74 and Jan Cummings; Doug '81 and Terry Hartman; Doug '63 and Sandra Hughes; Oliver '49 and Marie Jones; Charles '67 and Sally Ann McGrady; Jim '74 and Barbara Nielson; Timothy '93 and Lorna Steadham; Bob '73 and Janet Scanlon.

(Submitted by Bob Scanlon '73)



Left to right: Myra Ziegler, George Leck '61, Barbara Leck, Kim Winkler '88 and Mindy Gardner '95 (in the center, background).

Georgia Section St. Pat's Micro-Brewery Tour

Section President David Ziegler '85
1531 Huntington Drive, Marietta, GA 30066-5907 (770) 425-0971

On March 14, the Georgia Section had its Third Annual St. Pat's Micro-brewery Tour and taste test. Carrying on our own St. Pat's tradition begun in 1996, we met at a local brewpub, the Phoenix Brewing Co., in north Atlanta near Sandy Springs.

We had a tour of the brewing facilities, which was very informative, with a brief history of brewing, and the rebirth in the USA of small, local breweries like the Phoenix. The owner/brewmaster also explained how they recreate classic brews, and traditional methods.

The food was great, too, and we all enjoyed ourselves and remembrances of our times at MSM-UMR St. Pat's celebrations. The event was attended by 19 alumni and spouses/friends. We hope more Georgia alumni, North Georgia alums especially, will join us next year for our Fourth Annual tour of a local facility. It's bound to be The Best Ever!

In attendance: Dave Beem '75; Carl Berwick '97; Pat Broaddus '55; Mindy Gardner '95; Kevin Guenther '86; Jeff Harris '91; Angela Hemrick '97; James Hemrick '97; Eric Hirsch '96; George W. Leck III; '61; K. Ross McGee '96; Al Meyer '86; Kim Winkler '88; Dave Ziegler '85, '87.

(Submitted by David Ziegler '85)



Attention **Shutterbugs!**

We'll be glad to print photos taken at your events — just send them in! They need to be good quality, clear pictures, preferably showing some of the fun at your event. Either color or black and white pictures are acceptable, but please identify those people in the picture. If you send several, we'll pick the best for publication.

Kansas City Section Events

Section President Joseph F. Reichert '59

7312 Charlotte, Kansas City, MO 64131, (816) 361-9147

The Kansas City Section had a busy six months in the first half of 1998. Our events included the annual St. Patrick's Day Party in March, a social hour in April, and the First Annual Golf Tournament/Section Scholarship Fund Raiser and Prospective Student and Alumni Picnic in June.

St. Pat's Party

At the St. Pat's Party, Tom Petry '67, civil engineering department chairman, brought news from Rolla on the many dynamic things occurring on campus. As usual, there were fond memories of how St. Pat's was celebrated back then, in between, and today. Each generation has its own ideas of the on-campus pomp and circumstance and good-natured traditions associated with a proper observance. Each of us has our own school memories and no others can compare. And, oh, by the way, Sam Otto outdid himself from last year when he came in second in the "wearin' of the green" contest. But to do it, he had to get his clothing down to where the green touched the skin.

Attending the St. Pat's Party were Kathy Becker '76, Lu Bolon '59, Craig Borgmeyer '88, Gary Fouts '67, John Frerking '87, Larry Gilmartin '64, Richard Herndon '56, Cathy '94 and Travis '95 Irvin, Sam Otto '82, Bill Park '53, Tom Petry '67, Joe Reichert '59, Doug Schieszer '94, Charles (Willie) Schuman '55, Jack Stewart '56, Stuart Storrs '68, Nancey Drissel Spaith '72, Patrick Toby '88, Cliff Tanquary '57, Mike Towle '97.

Income Tax Day

April 15, Income Tax Day, seemed like a proper occasion to have a social hour. At least for all of the early filers. With the section furnishing the hors d'oeuvres, 19 alumni and two guests gathered at Tanners, 74th and Broadway, to howdy and shake. We were very pleased to see the younger alumni in attendance and are looking forward to seeing them bring their friends to the next social hour in the fall.

In attendance were, John Frerking '87, Jeff Martin '96, Teresa Heithaus '97, Cathy '95 and Travis '95 Irvin, Gary Fouts '67, Mike Towle '96, Mark Watson '97, Marites de los Santos '97, Will Reed '96, Shawn Thomas '94, Colin Young '90, Roger McCloud '75, Charles (Willie) Schuman '55, Ed Reichert '97, Craig Borgmeyer '88, Doug Schieszer '94, Nancey D. Spaith '72, Joe Reichert '59.

Golf Tournament

The section conducted its First Annual Scholarship Benefit Golf Tournament on June 6 at the Longview Lake course. John Frerking '87 and Charles (Mac) Andrew '68 served as co-hosts and couldn't have selected a date with better weather for the occasion. Fourteen alumni and guests participated. The section wishes to give a special thank you to Dave Skitek, who is known in the metro area as "The Golf Doctor," for a number of quality prizes. Using the experiences gained from our First Annual, the section officers are beginning their plans for next year.

The alumni participants were: Jim Frerking '90, Pat Goeke '75, David Skitek '79, Ed Reichert '97, Mitzi McIntyre-Chism '95, Larry Schall '71, Sam Wolfenbarger '61, Mac Andrew '68, John Frerking '87.

Annual Picnic

June was an active month. In addition to the golf tournament, the section held its annual Alumni Picnic in conjunction with the Admissions Office on June 29 at the Jackson County, Mo., Longview Lake. Fifteen alumni, six spouses and 13 students with their parents were in attendance. While a bit on the windy side, it was a beautiful day for a picnic. Craig Borgmeyer '88 and Cliff Tanquary '57 served as our cooks for the day. The prospective students were pleased to have an opportunity to visit with the younger alumni. They had the opportunity to hear firsthand what job opportunities there are for the recent graduate, relate to the current campus life and generally what to expect when attending UMR.

In attendance were: Todd Rastorfer '98, Ed Reichert '97, Cliff Tanquary '57 and Betty, Travis Irvin '95, Craig Borgmeyer '88, Gary Fouts '76, Lu Bolon '59 and Sammy, Nancey Spaith '72 and Jim, Shawn Dyer '88 and Diana, Tom Huffman '97 and Debbie Black Huffman '97, Ferrill Ford '78 and Debbie, Jerry Bayless '59 and Shirley, Joe Reichert '59.
(Submitted by Joe Reichert '59)

Mid-Missouri Section St. Pat's Social

Section President

Polly A. Hendren '73

210 S Glenwood

Columbia, MO 65203-2712

(573) 449-0124

The third meeting of the Mid-Missouri Section was held in the Banquet Room of Bones in the Alley in Jefferson City. The first social of the year, this late St. Pat's get-together was open-house style, featuring a variety of finger foods and a cash bar. The alumni began trickling in around 6 p.m. with nearly 50 MSM-UMR graduates and spouses catching up on times remembered.

During the business portion of the gathering, Dena Cash talked about the results of the activities preference poll and noted such upcoming events as a tour of Les Bourgeois Vineyards and Winery, a tour of the Callaway Power Plant, and our regular quarterly socials. Bob Schnell discussed our section scholarship for out-of-state students and announced that our region was Indiana. Watch out Boilermakers! Priya Avula-Batchu designed the membership drive applications and passed them out to the members present. Darleen Westcott also agreed to keep the section scrapbook. And the secretary-treasurer agreed to spell Darleen's name correctly in perpetuity and, groveling, begged her forgiveness for past offenses!

Section president Polly Hendren discussed the goals worked out in last winter's executive committee meeting: the creation of a section budget, the recruitment of 200 members by December 1998, high school recruitment for UMR, and the creation of another section scholarship for UMR students from within the Mid-Missouri region. For this last goal, Polly called attention to the \$20 membership dues, noting that these funds should be mailed to Wayne Hanley, the secretary-treasurer.

The next order of business was the awarding of the door prizes. Included among the goodies were an MIAA Championship shirt, leather MSM-UMR coasters, stone MSM-UMR coasters, four Bud/St. Pat's beer glasses, and a copy of Christensen

Mid-Missouri Section continued...

and Ridley's *History of MSM-UMR* — unfortunately, the only historian (the secretary-treasurer) present didn't win that prize. Don and Nancy Brackhahn from the alumni office did the honors (and Nancy took the pictures of the evening's events). Don also spoke of the recent St. Pat's activities at UMR and encouraged all present to attend next year's festivities.

By 9 p.m., most alumni had left the get-together, many continuing their belated St. Pat's celebration next door in the main building of Bones. By the way, the oldest St. Pat's sweatshirt present, worn by Jim Besleme, dated from 1968 (frightening to think, but that shirt is more than time-and-a-half older than most incoming freshmen at UMR!).

(Submitted by Wayne Hanley '85)

Motor City Section Golf Outing

Robert L. Seaman '69
29812 Briarwood Ct.
Farmington Hills, MI 48331 1921
(248) 661-0196

The Motor City Section held its First Annual Miner Golf Outing on June 13. Seventeen alumni, five friends and two spouses took part in a four-person scramble at St. John's Golf Course in Plymouth, Mich., and a good time was had by all who participated. Prizes purchased at the UMR Bookstore were awarded to the first- and second-place teams, closest to the pin and longest drive. No one went home empty-handed, though, as everyone received a UMR window sticker. Also, alumni gathered in the clubhouse after the event to socialize and celebrate a great day of golf and good times.

Miners and spouses present included Kristan King '95, John Stewart '97, Dave Dicks '92, Craig Rackers '94, Brian Talley '92, Ellie Talley '93, Donna Crabtree '92, Karissa McCarter '92, Casey Engstrom '92, Bob Moeller '90, Mike '90 and Dawn Debarr, John Andrews '96, Tom '71 and Phyllis Green, Larry Reinker '73, Scott Gegesky '68, Fred Thomas '91, Todd Brewer '94.

(Submitted by Kristan King '95)



Miner Music Section Picnic

**Section President Thomas H. Rogge '93, 430 Elm Crossing Ct.,
Ballwin, MO 63021, (314) 256-7818**

The Miner Music Alumni Section held its second annual picnic on Saturday, June 13, at Love Park in Manchester, Mo. Debbie Hunke Skaggs '89 was responsible for food and also served as the master chef.

The center of attention for the gathering turned out to be Sabrina Edwards, the three-month-old daughter of Shawn '92 and Becky Lema '93 Edwards. Sabrina was also the recipient of a door prize — the UMR Look and See Activity Book. It may be a few years before she can figure out the puzzlers and another few years before her attendance at UMR.

Chuck '49 and Agnes Remington, Don and Nancy Brackhahn, and David McCown came from Rolla to join the group. Others in attendance included Libby (Perkins) '94 and Craig Blair '92, Julie Fugina '94, Shawn '92 and Becky Lema '93 Edwards and Sabrina Edwards, Cynthia Millangue '91, Karen (Schoor) '94 and Tom Rogge '93, and Debbie (Hunke) '89 and Randy Skaggs '89.

Looking for a Job?

Online Resume Referral Service - One year registration for \$30, includes a year's subscription to JOBTRAK. Your resume will be forwarded to those requesting companies whose job specifications match your resume. Instructions for putting your resume in the database will be sent to you when payment is received.

Job Listings on JOBTRAK - You will be given a password for JOBTRAK which will allow you to view entry-level and experienced job listings on the Internet. To learn more about JOBTRAK visit their homepage: (<http://www.jobtrak.com>).

To register, please call 573-341-4229 with your credit card information or send a check made out to UMR for \$30 to: Marcia Ridley, Career Opportunities Center, Norwood Hall, 1870 Miner Circle, Rolla, MO 65409-0240.

Section News

Oklahoma Section Chancellor's Dinner

Section President Gary W. Hines '95, 6126 S Xenophon Avenue, Tulsa, OK 74132-1908, (918) 445-4706

Old and new alumni alike met at Flavor's Restaurant in Tulsa, Okla., on April 4, for the visit by Chancellor John T. Park and his wife, Dorcas. Flavor's, a four-star Oklahoma restaurant, served a wonderful meal while alumni reminisced of old times while at MSM-UMR. Following the meal, Chancellor Park gave a presentation on exciting changes at the university, including the kick-off of the Full Circle Campaign.

A big thank-you to all of those who made this event possible, including those who attended from Bartlesville, Okla.!

Those in attendance included: Gary '95 and Nicole Hines; Jeanne Barkley '96 and Bill Beville; Rhonda Powers '81; Russell Gund '40; Bary Warren '85; Perry '59 and Ann Allison; Dave '57 and Gayle Kick; Vernon T. McGhee '42 and Marie Blackburn; Bob '68 and Ginny Pahl; Craig '90 and Cindy '90 Bailey; Steve '72 and Gloria Thies; Ernest '53 and Mollie Achterberg.

(Submitted by Gary Hines '95)



Was that Kathy Ireland at the Oklahoma City St. Pat's Party?

Front row, left to right: Jim Thompson '89, Kathy Ireland, Dennis Jaggi '70. Back Row, left to right: Pat Ray, Carla Holcomb, Tom Holcomb '66, Patti Thompson, Bill Givens '51, Paul Ray '63, Clint Lambe '72, Nancy Lambe, Shirley Givens, Janet Jaggi.

Unofficial Oklahoma City Section St. Pat's Party

The Unofficial Oklahoma City Section held its annual St. Pat's Party at the home of Dennis '70 and Janet Jaggi in Edmond. Everyone had a great time playing pool, exchanging lies and discussing engineering issues that only Miners could appreciate. The wives talked about the merits of being married to engineers (that did not take very long) and then joined us for refreshments.

Those in attendance were: Dennis '70 and Janet Jaggi, Clint '72 and Nancy Lambe, Paul '63 & '65 and Pat Ray, Bill '51 and Shirley Givens, Tim '89 and Patti Thompson, and Tom '66 and Carla Holcomb.

Central Ozarks Section Pig Roast

Section President
J. Randy Verkamp '72
18112 Highway 8
St. James, MO 65559
(573) 265-7141

The Central Ozarks Section had its annual Pig Roast on Saturday, June 28, at the Finer Shelter at Meramec Springs Park. Thirty-seven alumni and guests showed up to enjoy the pig roasted by Dennis McGee '69 and crew. There was a brief business meeting where Randy Verkamp '72 was installed as the new president of the section and Gary Patterson '60 was installed as vice-president. Despite the hot and humid conditions, everyone had a great time.

Alumni and friends in attendance included Jennie Bayless '89, Jerry Bayless '59 and Shirley Bayless, Jerry Berry '49, Glen '39 and Janet Brand, Dorothy and Robert Eck '43, Martha and Max Ethridge '70, Ruth Faucett, Harold '66 and Joyce Fiebelman, Catherine and Larry George '90, Ted Hunt '33, Marlene Burrell, Nick Howland, Bill '74 and Debbie Mount, John and Dorcas Park, John '47 and Sharyn Powell, Agnes and Chuck Remington '49, Don and Pat Warner, Judy and Merle Southern '61, Armin Tucker '40, Dennis McGee '69, Betty Eyberg, Jan Ostborg, Randy Verkamp '72, Gary Patterson '60, Joel Brand '86, and Jeff Brand.

(Submitted by Jennie Bayless '89)

WE WANT YOUR NEWS!

Deadlines for upcoming issues of the MSM-UMR *Alumnus* are:

Spring 1999
deadline: Dec. 20, 1998

Summer 1999
deadline: April 1, 1999

Fall 1999
deadline: July 1, 1999

St. Louis Section Happy Hour

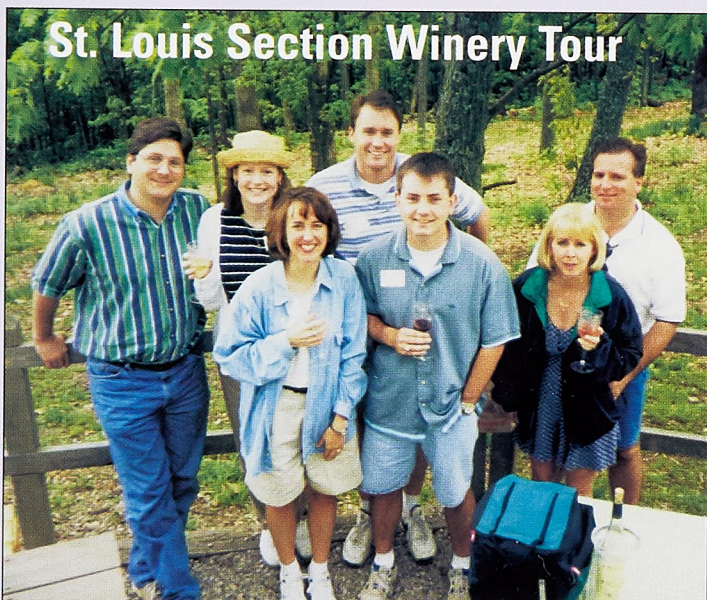
Section President Kelley Thomas '91, 837 Glendower Drive, Kirkwood, MO 63122, (314) 966-7505

The St. Louis Section held a happy hour jointly with the Notre Dame Club of St. Louis on Friday, March 27. The group met at the St. Louis Tap Room. The group enjoyed sampling the microbrews, socializing with fellow alumni and listening to music.

Those in attendance were: Sean Antle '94, Mike Arbini '95, John Boucek '81, Scott Canty, Jennifer Downes '95, Randy Dreiling '81, Carol Duenke, Christy Everritt '94, Gery Foehrweiser '81, Jennifer Fuller, Sam '88 and Christine '89

Grunbaum, Rebecca Grunbaum '94, Russ '90 and Rachele Henke, David Hetlage '83, Erin Jozwiak, Eugene Johnson, Shannon '90, '95 and Tammy Lambert, L.G. Loos '77, '82, Ted Medler '86, Greg Meyer '92, Melissa Moore '93, Milton Murry '64, '80, Scott Nall '86, Matthew Parker '95, Joe Rich '79, Rachal Robertson, Christina Sfredo '94, J.R. Smith '95, Kelley Thomas '91, Kim Thone, John Wynne '95.

(Submitted by Shannon Lambert '90, '95)



At left, left to right, front row: Kelley (Jozwiak) Thomas '91, Sean Antle '94, and Karen Rellergert. Back row, left to right: Randy Bourgeois, Natalie (McCune) Bourgeois '93, Marc Thomas '92 and Kurt Rellergert '88.

Below: the Rellergert family.



St. Louis Section Winery Tour

Section President Kelley Thomas '91, 837 Glendower Drive, Kirkwood, MO 63122, (314) 966-7505

The St. Louis Section visited "Missouri Valley Wine Country" near Augusta, Mo., on Saturday, May 2, 1998. The group met in the picnic area under the trees at Montelle Winery and enjoyed the beautiful scenery while sampling wines and picnicking. The rain held off until about 2 p.m., but the group's spirits definitely were not dampened. A covered patio afforded plenty of shelter out of the rain, while a local folk music group played in the afternoon. This event was coordinated and planned by Natalie (McCune) Bourgeois '93.

Those attending were: Sean Antle '94, Greg Basse, Randy and Natalie (McCune) Bourgeois '93; Don and Nancy Brackhahn; Angie Reed '91, Dave Reinhardt, Kurt '88 and Karen Rellergert; and Marc '92 and Kelley (Jozwiak) Thomas '91. Total in attendance (including the kids!) = 14.



Above: St. Louis Section members enjoy their picnic under the trees at Montelle Winery, near Augusta, Mo.



AROUND THE COUNTRY

UPCOMING MINER ALUMNI EVENTS

October

- 10 Oklahoma Golf Outing, Tulsa Oklahoma
—Gary Hines '95, 918-573-4337
- Student Reception, Detroit, Michigan
—Jennie Bayless '89, 573-341-4372
- 11 Student Reception, Cincinnati, Ohio
—Jennie Bayless '89, 573-341-4372
- 17 Ark-La-Tex Section, (TBA)
—Jerry Poland '82, 903-297-8933 (H)
MD/VA/DC Alumni Picnic
—Earl Biermann '43, 540-663-3200
- 24 Student Reception, Kansas City, Missouri
—Jennie Bayless '89, 573-341-4372
- 24 Student Reception, Houston, Texas
—Jennie Bayless '89, 573-341-4372
- 25 Student Reception, Jefferson City, Missouri
—Jennie Bayless '89, 573-341-4372

November

- 7 Student Reception, St. Charles, Illinois
—Jennie Bayless '89, 573-341-4372
- 8 Student Reception, Naperville, Illinois
—Jennie Bayless '89, 573-341-4372
- 14 Student Reception, Springfield, Illinois
—Jennie Bayless '89, 573-341-4372
- 15 Student Reception, St. Louis, Missouri
—Jennie Bayless '89, 573-341-4372
- 21 Student Reception, Tulsa, Oklahoma
—Jennie Bayless '89, 573-341-4372

- 22 Student Reception, Springfield, Missouri
—Jennie Bayless '89, 573-341-4372

December

- 5 Student Reception, Paducah, Kentucky
—Jennie Bayless '89, 573-341-4372
- 6 Student Reception, Cape Girardeau, Missouri
—Jennie Bayless '89, 573-341-4372
- 11 Student Reception, Boeing, St. Louis, Missouri
—Jennie Bayless '89, 573-341-4372
- 13 Student Reception, Rolla, Missouri
—Jennie Bayless '89, 573-341-4372
- TBA Oklahoma Section Christmas Party

January

- 9 Student Reception, St. Louis, Missouri
—Jennie Bayless '89, 573-341-4372

February

- 24 Legislative Recognition Day, Jefferson City, Missouri
—Cal Ochs '49, 573-634-2327

March

- 2 SME Alumni Reception, Denver, Colorado
—Alumni Office, 573-341-4145
- 12-13 Campus St. Pat's Celebration, Rolla, Missouri
—Alumni Office, 573-341-4145

TBA = to be announced

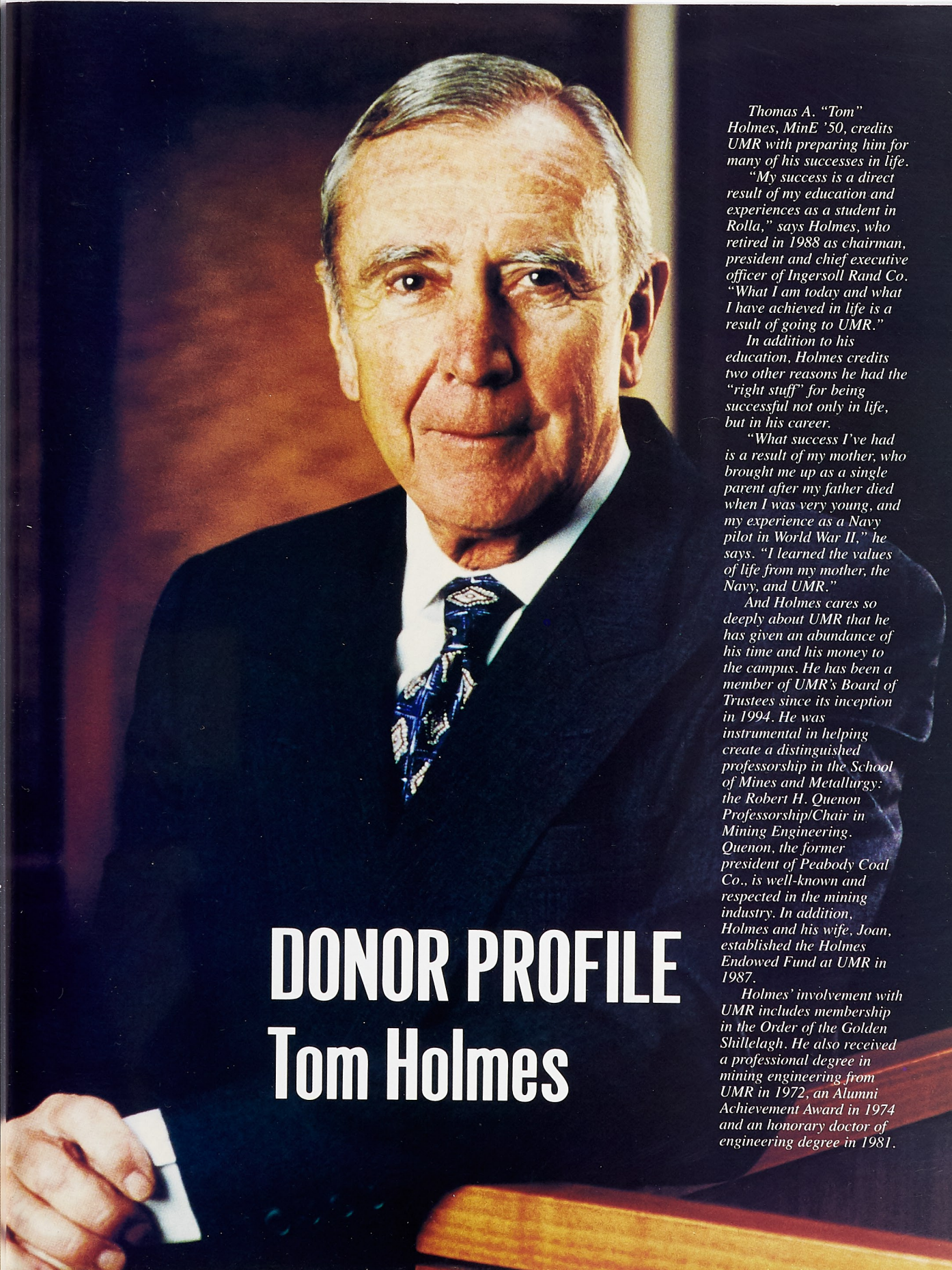
MSM-UMR ALUMNI ASSOCIATION

LOCAL SECTIONS

Alaska
Arkansas
Ark-La-Tex
Austin/San Antonio
Bay Area
Boeing - St. Louis
Central Ozarks
Chicago
Cincinnati/Dayton
Dallas/Ft. Worth
Georgia
Heartland
Houston
Kansas City
Lincolnland
Maryland/Virginia/D.C.
Mid-Missouri
Miner Music
Motor City
Northeast Ohio
Northern Alabama
Oklahoma
Pacific Northwest
Rocky Mountain
Saint Louis
Southern California
Springfield, MO
Tucson
West Florida

John W. Hentges '89
Charles Germer '55
Jerry A. Poland '82
Don N. Burzen '70
Deanna Marie Rozgay '91
Todd W. Rush '82
J. Randy Verkamp '72
Jim Clifford '77
Laura A. Lowe '93
Warren Unk '91
David R. Ziegler '85
Don Fuller '66
Kevin J. Hagan '80
Joseph F. Reichert '59
Richard T. Berning '69
Robert J. Scanlon '73
Polly A. Hendren '73
Thomas H. Rogge '93
Robert L. Seaman '69
Hugh C. Kind '76
John P. Dunbar '84
Gary W. Hines '95
Peter H. Malsch '62
Clarence A. Ellebracht, Jr. '64
Kelley Thomas '91
Kenneth G. Riley '56
Roddy J. Rogers '81
William M. Hallett '55
John Van Nort '50

13501 Ebbtide Circle, Anchorage, AK 99516
P.O. Box 23267, Little Rock, AR 72221
400 Wain Dr., Longview, TX 75604
19132 Trailview, San Antonio, TX 78258-4016
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18112 Highway 8, St. James, MO 65559
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1531 Huntington Dr., Marietta, GA 30066-5907
100 Bentwood Drive, Paducah, KY 42003 0998
4422 Ponca Street, Pasadena, TX 77504 3559
7312 Charlotte, Kansas City, MO 64131
10 Beachview Lane, Springfield, IL 62707-9513
2408 Honeystone Way, Brookeville, MD 20833
210 S Glenwood, Columbia, MO 65203-2712
430 Elm Crossing Ct, Ballwin, MO 63021
29812 Briarwood Ct, Farmington Hills, MI 48331 1921
1021 Morewood Parkway, Rocky River, OH 44116
622 Patterson Lane, Meridianville, AL 35759-1028
6126 S Xenophon Avenue, Tulsa, OK 74132-1908
41011 303rd Ave. SE, Enumclaw, WA 98022-7701
7336 S. Glencoe Ct., Littleton, CO 80122-2527
837 Glendower Drive, Kirkwood, MO 63122
3390 Monterey Road, San Marino, CA 91108-1830
City Utilities, P.O. Box 551, Springfield, MO 65801
P.O. Box 64216, Tucson, AZ 85728-4216
4908 W Country Club Dr., Sarasota, FL 34243

A portrait of Tom Holmes, an older man with grey hair, wearing a dark suit, white shirt, and patterned tie. He is looking directly at the camera with a slight smile. The background is dark and out of focus.

Thomas A. "Tom" Holmes, MinE '50, credits UMR with preparing him for many of his successes in life.

"My success is a direct result of my education and experiences as a student in Rolla," says Holmes, who retired in 1988 as chairman, president and chief executive officer of Ingersoll Rand Co. "What I am today and what I have achieved in life is a result of going to UMR."

In addition to his education, Holmes credits two other reasons he had the "right stuff" for being successful not only in life, but in his career.

"What success I've had is a result of my mother, who brought me up as a single parent after my father died when I was very young, and my experience as a Navy pilot in World War II," he says. "I learned the values of life from my mother, the Navy, and UMR."

And Holmes cares so deeply about UMR that he has given an abundance of his time and his money to the campus. He has been a member of UMR's Board of Trustees since its inception in 1994. He was instrumental in helping create a distinguished professorship in the School of Mines and Metallurgy: the Robert H. Quenon Professorship/Chair in Mining Engineering. Quenon, the former president of Peabody Coal Co., is well-known and respected in the mining industry. In addition, Holmes and his wife, Joan, established the Holmes Endowed Fund at UMR in 1987.

Holmes' involvement with UMR includes membership in the Order of the Golden Shillelagh. He also received a professional degree in mining engineering from UMR in 1972, an Alumni Achievement Award in 1974 and an honorary doctor of engineering degree in 1981.

DONOR PROFILE

Tom Holmes

