



## Missouri S&T Magazine, November 1990

Miner Alumni Association

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# MSM

VOL. 64, NO. 4

# A LUMNUS

NOVEMBER 1990



Inside...  
Reunion Photos from  
**HOMECOMING '90**

UNIVERSITY OF MISSOURI - ROLLA

A Publication of the MSM/UMR Alumni Association

# FOR MISSOURI'S SAKE

*An Investment in Higher Education is needed now*

**I**n a move unprecedented in the state's history, all of Missouri's colleges and universities have banded together to take a simple but urgent message to the people of the state. That message is that the citizens of Missouri must act decisively to combat the chronic underfunding of its higher education.

Over the past decade, the purchasing power of Missouri's institutions of higher education has not kept pace with the cost of teaching, research and service. Missouri has fallen behind in the race to compete nationwide, and will fall even further behind in the worldwide high-technology environment that exists today.

Although UMR has managed its resources wisely, it and the other 45 institutions that make up Missourians for Higher Education (MHE) will continue to make the best use of the resources entrusted to them. But a major new state investment in higher education is needed... "For Missouri's Sake."

MHE, a voluntary association of 46 public and private two- and four-year colleges and universities in the state, has been informing Missourians for five years about the needs of higher education. Last January, in a barnstorming series of eight press conferences around the state, representatives of MHE, joined by various political leaders, published the organization's report, *Show Me The Future*.

*It will make no difference what jobs are open to Missourians in the 21st century if the work force does not possess the skills or knowledge to be productive.\**

It pointed to a \$367 million annual shortfall in state funding necessary for Missouri and Missourians to be competitive.

A more recent report on higher education needs in Missouri, from a joint task force of Confluence St. Louis and Kansas City Consensus, has estimated the need at \$380 million annually. Confluence and Consensus, which are citizens' groups with no direct vested interest in Missouri's colleges and universities, stated that "underfunded institutions—and Missouri's colleges and universities are demonstrably underfunded—cannot reallocate themselves to quality. It is not realistic to expect them to do so."

Confluence and Consensus, in recognition of political realities, have recommended a \$300 mil-

lion increase in annual funding for higher education and a one-time bond issue to meet \$311 million worth of critical computer and physical plant needs.

An increased state investment would provide computers new enough, powerful enough and plentiful enough to make them available to students who must learn to use them.

Such an investment would mean financial support for qualified students who might otherwise end up in dead-end jobs at subsistence wages rather than in positions that contribute to Missouri's

*...An educated and well-trained labor force ranks at or near the top in every study of factors which influence businesses' expansion and relocation decisions...a person who leaves the educational system before high school graduation will eventually cost taxpayers nine times as much in public support as it would have cost to educate the person through college.\**

improved economic health. Missouri's Grant Program funds, for example, were sufficient to make awards to only 9,000 of 35,000 qualified applicants.

Repairs and renovations are crucial for aging and crumbling buildings that are not only dangerous but outmoded and ineffective for teaching and research.

Presently, there is an \$88 million backlog of repairs in the UM System, \$50 million of which are described as urgent. The value of the four-campus physical facilities alone is \$1.8 billion. Twenty to \$30 million per year is necessary for repair and upkeep.

Improved research also requires such an investment. Other states have shown that research is a major ingredient in economic growth. Research is, however, expensive. It requires sufficient laboratory space, up-to-date equipment, operating funds and staff support.

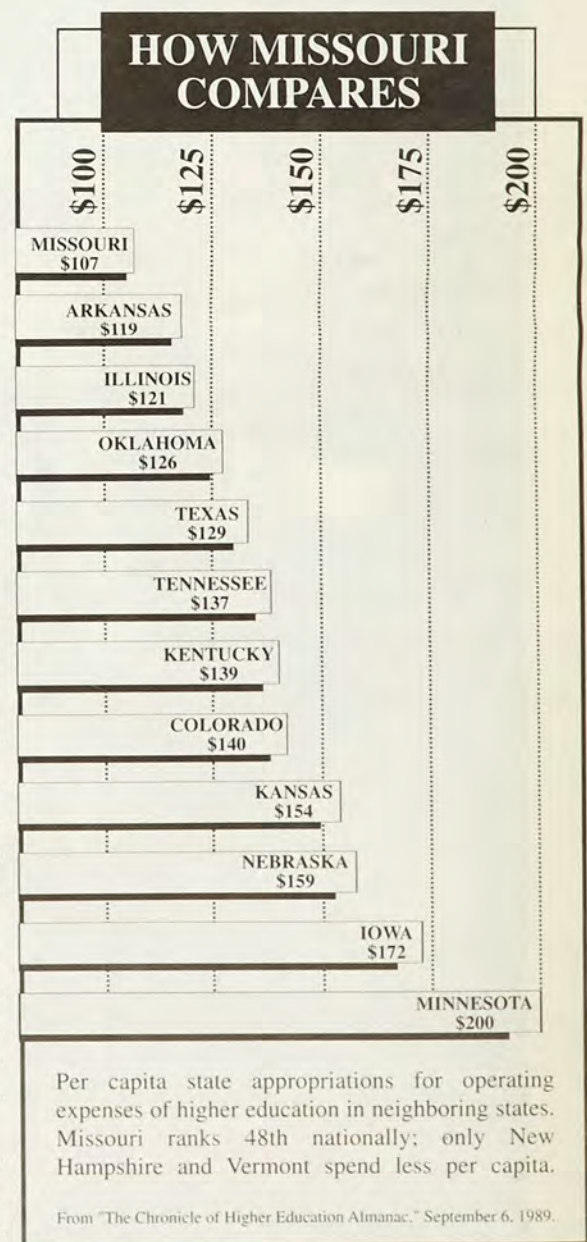
"In a competitive international environment there is a direct relationship between education and economic development," the Confluence/Consensus report says. "Economic productivity in Missouri increasingly depends on educated citizens."

Higher education results in greater job opportunities and higher lifetime earnings. Estimates run

as high as an average of \$800,000 more earnings over a lifetime for a college graduate—or about \$200,000 per year of higher education. Excellent higher education attracts new and emerging business and industry, and with them, better and higher-paying jobs.

Representatives of MHE continue to take this message to the people of Missouri. In a recent MHE forum held at UMR for educational, business and community leaders from the area, University President C. Peter Magrath summed up the MHE message by saying, "What we are about is not in our best interests—it is in the best interest of the people, the economy, and the society of the State of Missouri. That investment is needed now...For Missouri's Sake."

—by Annette C. Sanders



\* From "Show Me The Future-The Needs of Missouri Higher Education", published by Missourians for Higher Education, in association with the Council on Public Higher Education, the Missouri Association of Community and Junior Colleges, and the Independent Colleges and Universities of Missouri.

# NASA ASTRONAUT TOM AKERS, '73, '75, HELPS LAUNCH ULYSSES SPACE PROBE

**W**hen NASA's Discovery space shuttle blasted off the launchpad October 6, a University of Missouri-Rolla alumnus was one of the five astronauts on board.

Mission Specialist Tom Akers, who received bachelor's and master's degrees from UMR in 1973 and 1975, respectively, was part of Discovery's Ulysses International Solar Polar Mission.

The Ulysses mission, a joint project between NASA and the European Space Agency (ESA), will make the first ever passes over the sun's north and south poles.

Ulysses, a rectangular-shaped spacecraft deployed from Discovery's payload bay six hours after liftoff from Cape Canaveral, will journey to Jupiter, and then on to the sun's polar regions. Terrestrial observatories and Earth-orbiting spacecraft have studied the sun, but only from its equatorial regions. This is because the earth's orbital path defines a flat surface—or *plane of the ecliptic*—that bisects the sun at its equator. In order to view directly the solar poles, a spacecraft would have to leave the plane, requiring more propulsion energy than present launch systems are capable of providing. Reaching the sun's poles is possible, however, by launching a spacecraft away from the sun.

Ulysses was boosted on a trajectory leading it to Jupiter in 1992. It will cross Jupiter's northern hemisphere, and the planet's gravitational field will bend Ulysses' path and send it southward and back toward the sun at an angle almost perpendicular to the plane of the equator. It will pass over the South Pole of the sun in 1994, and over the sun's North Pole in 1995.

Obviously, complicated math and science were required to compute the necessary equations that make the Ulysses mission possible. Tom Akers says of his UMR

education, "My education at UMR has helped me ever since the day I left there. I did well there, and its reputation helped me interview for jobs. I've continued to use the math I learned even today."

Akers is originally from the Eminence, Missouri area, and feels that he got a good education in the Eminence School System.

Among Akers' duties during the Ulysses mission were to serve as the primary payload member, which means that his role was of utmost importance during the time the Ulysses spacecraft was being deployed from Discovery. After Ulysses was on its way to Jupiter, several other experiments took place on the Discovery.

Akers, as a Mission Specialist, was in charge of two of these experiments. The first was an experiment designed to discover how flames react in zero gravity. This information is important for safety on future shuttle missions. The other experiment Akers made is a materials processing experiment to evaluate the creation of very fine purification filters in microgravity.

Support of the space program is very important if certain technological breakthroughs are to be discovered, Akers says. He gave the example of the space program in in 1960's. "The object was to



put a man on the moon, and many factors had to be tested and evaluated if this was to happen. Many of these experiments done by NASA end up giving the U.S. economy a

positive gain, rather than a negative cash drain, as critics of the space program have said".

The reason for this, Akers say, is that things that are discovered as a result of NASA's research can be applied to products used in everyday life.

Akers gives as an example the fireproof material developed for the first space suit. This material is now standard for all firefighter's clothing, but whether the material would have been developed without the space program is questionable.

Dr. Gus Garver, UMR professor of mathematics, went to Florida for the launch of Discovery, and remembers Akers as a student in Rolla. "He was always just an excellent student," says Garver, "both as an undergraduate and in the master's degree program. He's not only a scholar, he's a gentleman."



*Shuttle Discovery crew members (front row, left to right) pilot Robert D. Cabana and commander Richard N. Richards; (back row, left to right) mission specialists Bruce E. Melnick, Tom Akers, and William Shepherd.*

Photos courtesy of NASA

# 1990 *Homecoming*



(Above) Golden alumni gather for their group picture.  
(Left) Sue Cain, Rolla, leads a cheer at the bonfire.



Willis and Cecil, '38, Robertson visit with Wilma and Tiny, '30, Regenhardt at the field-house feed before the football game.

Stephanie Stroker and Sue Burrows get tangled up in the Twister tournament.





1950 classmates Paul Huber (front), Russell Diefenbach, Gabe Gabelmann, Linus Renner, Clarence Tunnicliff, B.D. Hollenbach and Charlie Kunz at the Silver and Gold reception.

**A**lumni from Missouri and other states across the country returned to UMR for Homecoming: The "Wander Years," held Oct. 12-13, on campus.

Events on Friday, Oct. 12 included a student team twister tournament, at the mall north of the University Center-West; a student-alumni golf tournament, which was held at the UMR golf course; educational seminars, which were presented by UMR faculty and alumni; the Silver and Gold Reunion Buffet Reception, which was held in Centennial Hall, University Center-East; the Homecoming Parade, featuring UMR's marching band and a number of floats from various UMR student organizations, which began at the University Center-East and ended at the athletic field; and the Homecoming bonfire and fireworks display, which was held at the athletic field.

Events held on Saturday, Oct. 13, included additional educational seminars by UMR faculty and alumni; the Fieldhouse Feed, for alumni and friends of UMR, held in the Bullman Multi-Purpose Building; the homecoming football game between the Miners and Northwest Missouri State University; and the Alumni Awards Banquet, which was held in Centennial Hall, University Center-East.



Kevin McCosh, '82, plays tuba for the alumni band at halftime.



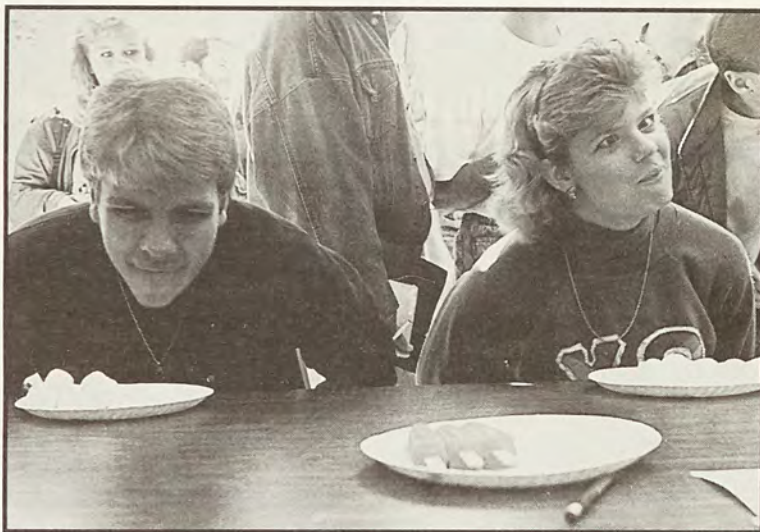
Contestants in the jello wrestling contest, part of Student Union Board homecoming week activities.

# 1990 Homecoming



*Dominic Greco, '44, Bob Klorer, '44, Tom Herrmann, '50, Pat Pruett, and Louis Greco, '50*

*A marshmallow eating contest can be more difficult than it sounds...below, Julie Donovan shows her feelings about the contest. (Lower right) Another contestant is cheered on by friends. The winner ate some 30 marshmallows.*



*Joan Duerr, Sid Duerr, '50, Jean Zerweck, and Carl Zerweck, '50*



*Many varied interpretations in the Joe Miner look-a-like contest.*



(Above) contestants in the egg catapult launch an egg. The egg catapult contest, part of the Student Union Board homecoming activities, challenges participants to build a device to throw an egg the furthest distance, yet still be caught—unbroken—by a team member.

(Above left) Floyd Harris, director of the UMR Minority Engineering Program, visits with Charles McField, '80, Jocelyn McField, and Lenell Allen, MEP coordinator.

(Left) Earl Bage, '50, Charlie Ross, '49 and Frank Seydler, '27 at the Silver and Gold reception.

## ALUMNI ASSOCIATION BOARD OF DIRECTORS

# News

**T**hree new endowment funds were approved by the board of directors of the MSM-UMR Alumni Association at their fall board meeting held at Homecoming October 12-13, 1990.

The Dewey Allgood Scholarship Fund is established to benefit intercollegiate athletics at UMR. Preference will be given to students participating in the intercollegiate track program at UMR, with cross country and football athletes also considered.

The William Collins Endowment Fund for Petroleum Engineering is established to provide scholarship support for students in petroleum engineering as a primary group, with students in geological engineering or minerals study as a secondary group. Bill Collins also established the Frances Porter Collins Endowment Fund for Theater to benefit those students at UMR who participate in theater studies. If there are no suitable recipients in the theater program, a student from the music or English departments may be selected.

The Armin and Norman Tucker Scholarship Fund is established to provide scholarships to students participating in intercollegiate athletics at UMR. The Tucker Twins, Armin and Norman, both class of 1940, established this fund in spring 1989. Rolla natives, the Tuckers attended Rolla High School and participated in athletics as high school students. Upon graduation, they both attended MSM and continued to participate in intercollegiate track. They were charter members of the M Club, and they have always retained their interest in athletics at MSM-UMR. Upon his retirement to Rolla, Armin became actively involved in the Miner Booster Club as well as a strong supporter of all Miner athletic activities.

In other business, five new board members and a new set of officers were elected to the board.

J. Robert (Bob) Patterson, '54, was elected president. He replaces John Toomey who served the Association well the past two years.

The Board also elected Robert V. Wolf,

'51, '52, as president-elect; Wayne R (Pat) Broaddus, '55, Alfred J. Buescher, '64, Matteo A. Coco, '66, Gerald Stevenson, '59, and Ernst A. Weinel, '44, as vice-presidents; Robert T. Berry, '72, as secretary; and J.L. (Jack) Painter, '50, as treasurer.

John G. Bartel, '52, and Robert R. Morrison, '71, were elected directors-at-large. Their duties include serving and representing all alumni, as opposed to area directors who serve alumni in the area they are elected from. Area directors elected this fall and their zip code areas they serve are: Larry Parkinson, '64, 46000-52999; Robert F. Uthoff, '52, 62000-62999; Robert S. Bruce, '69, 63000-65999; William W. Collins, '50, 63000-65999; Richard J. Vehige, '68, 63000-65999; Phil A. Browning, '48, 66000-72999; and William M. Hallett, '55, 85000-92999.

Area directors are alumni representatives from a particular region of the country (see table on page 43). If you have any questions about alumni activities in your area, contact your area director or any director-at-large.



# THIRTEEN HONORED AT UMR ALUMNI AWARDS BANQUET

**T**he MSM-UMR Alumni Association honored 13 outstanding alumni, faculty and friends of UMR during the association's Awards Banquet held Saturday, Oct. 13.

Persons honored and their awards include:

**ALUMNI ACHIEVEMENT AWARDS**—presented for outstanding service in areas of business or academic accomplishments and for civic affairs achievement or recognition.

**S.O. (Bud) Ogden**, chairman and C.E.O., Island Creek Corp., Lexington, Ky. Ogden received a B.S. degree in chemical engineering from the University of Missouri-Columbia in 1961 and an M.S. degree in chemical engineering from MSM in 1964. He earned an M.B.A. degree from Central Michigan University in 1971 and received the honorary degree of Professional Engineer from UMR in 1988.

His business career began with the Dow Chemical Co. in 1961. In 1972 he joined Youghioghny & Ohio Coal Co. as vice president, Planning and Development. In 1976 he became vice president, Western Operations for Westmoreland Coal Co. and president and C.E.O., Colorado Westmoreland. In 1978 he returned to Youghioghny & Ohio Coal Co. and in 1981 joined Sunedco Coal Co. (Colorado) as president and C.E.O. He assumed his present position with Island Creek Corp. in 1984.

Ogden is a native of Paris, Mo., and is a member of several professional organizations. He serves on the board of directors of the American Mining Congress, the National Coal Association, Kentucky Forward and the Kentucky Chamber of Commerce.

**James L. Spehr**, vice president, general manager F/A-18, McDonnell Aircraft Company, St. Louis. Spehr received B.S. and M.S. degrees in metallurgical engineering from UMR in 1964 and 1969, respectively. In 1986 he was honored by his alma mater with a Professional Engineer degree.

He joined McDonnell Aircraft Co., St. Louis, in 1964 and has spent his entire professional career with that company. He has served McDonnell Aircraft in several capacities culminating with his present appointment as vice president, general manager F/A-18 (aircraft).

Spehr is a member of several professional organizations and is the author of numerous technical papers dealing with aircraft materials and manufacturing methods. He is a member of the UMR Corporate Board of Visitors and the Advisory Council for Metallurgical Engineering. He is a member of the Knights of Columbus, vice presi-

dent of the board of directors of St. Joseph Institute for the Deaf and past president of St. Clare's Parish Council.

**Ted Weise**, senior vice president, Federal Express, U.S. and Canada, Germantown, Tenn. Weise holds a bachelor of science degree in electrical engineering from UMR which he received in 1967. He also received an M.B.A. degree from the University of West Florida.

He joined General Dynamics in 1969 and became a Flight Test Engineer in the F-111 project.

In 1972 Weise joined Federal Express. While there, he has held various management positions including director (1974), vice president of Special Projects of Advanced Planning (1977), vice president of Operations Planning (1978), senior vice president of Operations Planning (1979), and he formed the Business Service Centers Division in 1983.

He assumed additional duties with Federal Express as senior vice president of Central Support Services (1985), which added properties, logistics and HUB operations. In 1987 he assumed his present duties as senior vice president, U.S. and Canada. (Recently, President Bush announced that Federal Express became the first service company to receive the prestigious Malcolm Baldrige National Quality Award.)

Weise has been elected to the UMR Academy of Electrical Engineers and is a member of the house corporation of the UMR Kappa Alpha fraternity.

He is a member of the board of directors and past president of Junior Achievement of Memphis.

**ALUMNI MERIT AWARDS**—presented for outstanding service to UMR or the Alumni Association or for recognition of some outstanding achievement in academic or business pursuits.

**Mack A. Breazeale**, professor, University of Tennessee, currently on leave at the University of Mississippi, Oxford, Miss. Breazeale holds a bachelor's degree in physics and mathematics from Berea College, Ky., a master's degree in physics from MSM, and a doctorate in physics from Michigan State University.

Breazeale has served as assistant research professor at Michigan State University (1957-58); Fulbright Research Scholar, Technical University, Stuttgart, Germany (1958-59); associate professor of physics, University of Tennessee (1962-67); and professor of physics, University of Tennessee (1967-present). Presently Breazeale is on leave working at the National Center for Physical Acoustics at the University of Mississippi where he is a Distinguished Research Professor and Senior Scientist.

He is a Fellow of the Acoustical Society of

America (ASA), the Institute of Electrical and Electronic Engineers (IEEE), and the Institute of Acoustics (Great Britain). He is a member of the American Physical Society and associate editor of the Journal of the Acoustical Society of America. Breazeale received the Silver Medal in Physical Acoustics from the ASA in 1989 and was a distinguished lecturer for the IEEE Ultrasonics, Ferroelectrics and Frequency Control Society in 1987-88. He was listed in "Who's Who in America" in 1984.

**Melvin L. Rueppel**, director, Global Product Development, Monsanto Co., Kirkwood, Missouri. Rueppel holds a bachelor's degree in chemistry from UMR and a doctorate in organic chemistry from the University of California, Berkeley. In 1971 he was a post doctoral fellow in biochemistry at Cornell University, New York.

Rueppel joined the Monsanto Company in 1971 as a Senior Research Chemist and has held progressively responsible positions at Monsanto. Presently he is the director of Global Product Development, a position he has held since 1989.

He has served as a member of the Industrial Advisory Board of the UMR department of chemistry and as a vice president of the Foundation for Chemical Research of the Advisory Board of the UMR department of chemistry. He is a member of the American Chemical Society, the American Association for the Advancement of Science, the American Society for Mass Spectrometry, the International Society of Heterocyclic Chemistry, Sigma Xi (the Scientific Research Society of North America) and Phi Kappa Phi honorary society.

**James A. Unnerstall**, executive director, Crisis Management Planning, Amoco Corporation, Olympia Fields, Ill. Unnerstall received a B.S. degree in chemical engineering from MSM in 1956 and attended the Advanced Management Program at Harvard University's Graduate School of Business Administration in 1976.

Unnerstall joined Standard Oil Company (Indiana) at the Whiting, Ind., refinery in 1956 as a chemical engineer. He has held numerous positions at several of the company's refining locations including Manager of the Casper, Wy., refinery. He was named General Manager of Purchasing in 1976 and General Manager of Information Services in 1978. He was appointed vice president of Planning and Administration of Amoco Oil Company in 1981.

Unnerstall has been vice chairman and member of the executive committee, board of directors, planning and program committee, steering committee and chairman of the services committee for the American Red Cross, Mid-America Chapter.

He has been active in volunteer work for the American Red Cross since 1982. From 1981-87 he served as a member of the Board of Directors for the Illinois State Chamber of Commerce.

**ALUMNI SERVICE AWARDS**—presented to individuals for outstanding contributions to UMR through service to UMR or to the Alumni Association.

**Dewey Allgood**, retired professor, track coach, cross country coach and director of intramurals, UMR. Allgood has been the school's head track and field coach since 1971, as well as the director of intramurals. He has served as a professor of physical education at UMR since 1950 after spending one year at Northwest Missouri State as an assistant football coach.

Allgood has been the head coach for the Miner basketball, football and golf teams as well as track and field. He has been intramural director for most of his UMR tenure.

Allgood became the school's basketball coach when he arrived in 1950 and served in that capacity for 13 seasons. Allgood also spent two years (1962-63) as the golf coach before being named

head football coach in 1964. He had a 28-45-2 during that span, with a high point in his career coming in 1969 when the Miners had seven wins and only two losses.

Allgood is originally from Lisbon, N.D. He earned his bachelor's degree from North Dakota State University and his master's from Colorado State University. He also has been the department chairman of the physical education department.

**STUDENT ADVISER AWARDS**—honors four current student advisers and recognizes their efforts in assisting students with academic and career decisions.

**Charles E. Dare**, professor of civil engineering. Dare earned a B.A. degree in general science in 1961, a B.S. degree in mechanical engineering in 1962, and M.S. degree in industrial and management engineering in 1963 and his Ph.D. degree in the same field in 1968 all from the University of Iowa.

He joined the UMR faculty in 1977, was appointed director of the UMR Transportation Institute in 1978 and became a professor in 1986.

In addition to his other academic duties, Dare is adviser for 36 freshmen this year, as well as about 20 other civil engineering students. He has been named director of all undergraduate advising for the civil engineering department and is faculty adviser for the student chapter of the Institute of Transportation Engineers.

**Burns E. Hegler**, professor of electrical engineering. Hegler received a B.S. degree in electrical engineering in 1943 from Kansas State University. After two tours of duty with the U.S. Navy and several years with Kansas Gas & Electric Co., he returned to Kansas State and earned M.S. and Ph.D. degrees in electrical engineering in 1958 and 1968, respectively.

He joined the faculty at UMR in 1968 and since that time has been a member of the electrical engineering department except for six years spent in engineering management. His academic inter-

ing department. He is adviser for the student chapter of the Association of Engineering Geologists and frequently serves as instructor-adviser for the six-week geology field camp held each summer in Utah.

**Robert V. Wolf**, professor of metallurgical engineering. Wolf received B.S. and M.S. degrees in mechanical engineering from the Missouri School of Mines and Metallurgy in 1951 and 1952, respectively.

While working on his M.S. degree, Wolf became an instructor in metallurgical engineering and continued with that job until he was made an assistant professor in 1956. He was awarded the title of professor in 1967. He has served as acting department chairman in both metallurgical and mining engineering, and was an assistant dean in the UMR School of Mines and Metallurgy for eight years.

Wolf has frequently served as academic adviser for students in his department and for student chapters of professional associations. He has served approximately 34 years as adviser to the UMR chapter of Pi Kappa Alpha fraternity.

**OUTSTANDING STAFF MEMBER AWARDS**—honors two current staff members for their outstanding service to the students of UMR.

**Carol Sue Molchan**, administrative associate in the Student Activities Department. Molchan joined the UMR staff in 1967, and was employed in the Purchasing and Auxiliary Services Departments prior to her current assignment. Molchan received the 1990 Blue Key Honorary Membership Award for her work with student organizations, and she is active in a number of civic organizations as well as being involved with area youth groups.

**Kathy A. Nikolaisen**, library assistant. Nikolaisen has been employed as a library assistant in the circulation department of the Curtis Laws Wilson Library since 1979. She graduated from UMR in 1977 with a B.A. degree in history and worked for the Division of Family Services and Social Services for two years prior to coming to UMR.



*Front Row, left to right: Bob Wolf, Kathy Nikolaisen, Carol Molchan, Dewey Allgood. Back Row, left to right: Ted Weise, Melvin Rueppel, Mack Breazeale, John Rockaway, Charles Dare, Jim Unnerstall, Jim Spehr, Bud Ogden.*

ests include the areas of occupational safety, energy conservation and management.

In addition to serving as adviser for approximately 80 transfer students in electrical engineering, in 1989 Hegler was named director of the Energy Analysis and Diagnostic Center where he works with the Department of Energy.

**John D. Rockaway**, professor of geological engineering. Rockaway received a B.S. degree in geological engineering from the Colorado School of Mines in Golden, Co. He then entered Purdue University in Indiana and received M.S. and Ph.D. degrees in geological engineering in 1963 and 1968, respectively.

He joined the UMR faculty in 1968 and was awarded the title of professor in 1978. He served as chairman of the geological engineering department from 1981 to 1987.

Rockaway serves as adviser for 29 freshman students and is also adviser for about 20 other students in the geological and petroleum engineer-

# PROFILES: JAMES R. (BOB) PATTERSON

## *New association president will follow in his father's footsteps*

**A**s an MSM graduate, James R. (Bob) Patterson has seen the university change and expand from the early 1950s to the present. As the newly installed president of the Alumni Association, he will help shape UMR's future.

During the recent homecoming activities, Patterson took time to recall some of the people and places from his student days, talk about his family and career and discuss the association's plans for the coming year.

"The civil engineering department was located in Harris Hall at that time and the football field was behind the library," says Patterson, who received a bachelor's degree in civil engineering in 1954. "My wife and I lived in Army barracks which had been converted into apartments between what is now the Graduate Center for Materials Research and the Catholic church.

"Professors Erkiletian in the math department and Joe Senne, who taught structures in the civil engineering department, provided excellent instruction," he adds. "John Best, who is now a professor of civil engineering at UMR, was my study companion, and we were often enrolled in the same classes."

Outside the classroom, Patterson's activities included membership in Alpha Phi Omega, a fraternity of former Boy Scouts, which worked primarily on service projects around campus. "One project that I remember was a book trade-in service for students who wanted to sell or buy used textbooks," he says.

Since his days as an MSM student, several buildings have been constructed on campus and Patterson credits his father's influence in some of those changes.

"My father, J.F. 'Pat' Patterson, was a Missouri senator for 23 years, and during that time he was chairman of the appropriations committee for 10 years and president pro tem of the Senate for the last three or four years of his term," he says. "He was dedicated to UMR," Patterson continues, "and while he was in office a number of building projects were undertaken on campus including construction of the Physics Building, and the library and civil engineering buildings, which were later named the Curtis Laws Wilson Library and the Butler-Carlton Civil Engineering Hall. Several building additions were also completed during his terms."

Patterson, who is originally from Caruthersville, Mo., says that a career in engineering became part of his plans at an early age.

"When I was six years old my grandfather, who was superintendent of waterworks in Caruthersville for more than 50 years, told me I would be an

engineer and I never considered anything else," he says.

After graduation from high school, Patterson enrolled at Southeast Missouri State in Cape Girardeau. "There were rumors at that time about a work shortage for engineers because of the number of veterans who had returned from World War II," Patterson says.

"After a year at Southeast Missouri State, I taught school from 1949-1950 and then enrolled at MSM in 1951," he continues.

"MSM had a reputation as the best engineering school and was the logical place for me to study engineering."

Patterson worked in the construction industry for 25-30 years and was also a consultant on a part-time basis for several contractors. In 1966 he organized a construction company and continued in that business until he founded Show-Me Rentals in 1974. "We rent equipment to general contractors and home owners and sell maintenance and janitorial supplies including swimming pool equipment and chemicals," he says.

Patterson and his wife, Martha, were married after their first year of college and have been married for 41 years. They have two daughters, Cathy and Karen.

"Cathy is working on a Ph.D. in education at Southern Illinois University-Carbondale," he continues. "She and her husband, George, who recently completed his Ph.D. in English, have a

son, James, who is seven years old, and a daughter, Hilary, who is one year old.

"Our daughter, Karen, has a master's degree in nursing and is in pharmaceutical sales," he says. "Her husband, Don, manages a plumbing supply business in St. Louis and they have a seven-month old daughter, Chelsea."

In June, Patterson was inducted into the UMR Academy of Civil Engineers, an advisory group to the civil engineering department which honors UMR civil engineering graduates for their contributions to the profession and for their interest in UMR students and faculty.

His interest in UMR is evident as he discusses the Alumni Association's efforts to support the university.

"The association plans to promote UMR to Missouri's legislators through public resource ambassadors," explains Patterson. "The group will consist of at least one alumnus from each legislative district in Missouri."

"The UMR alumni office will contact the group's members when there is legislation pending that concerns UMR," he continues, "and, in turn, the ambassadors will contact their state representatives and senators to urge them to support the university."

"The Alumni Association also wants to plan

**JAMES R. (BOB) PATTERSON**  
president, Show-Me Rentals, Sikeston, Mo.

#### **FAMILY**

■ He and his wife, Martha, have two daughters and three grandchildren.

#### **EDUCATION**

■ B.S. degree in civil engineering from UMR

#### **CAREER EXPERIENCES**

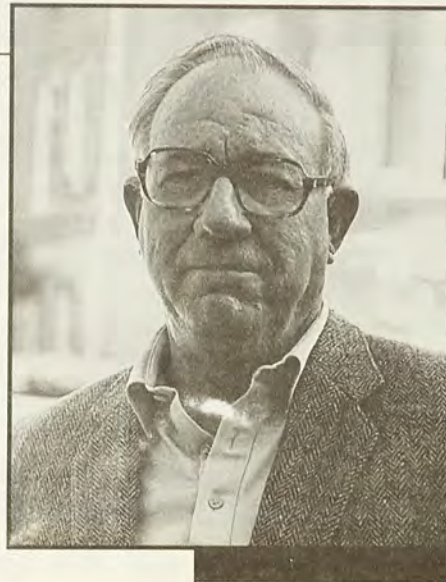
- U.S. Army
- The Aluminum Co. of America
- Chance-Vought Aircraft in Dallas
- R.B. Potashnick Construction Co.
- Ray Clinton Construction Co.

#### **AFFILIATIONS**

- First Baptist Church
- MSM-UMR Alumni Association
- UMR Academy of Civil Engineers
- Pi Kappa Alpha
- University of Missouri Alumni Alliance
- Missouri Society of Professional Engineers
- Sikeston Development Council
- American Rental Association
- International Sanitary Supply Association

#### **AWARDS**

- Professional degree in civil engineering from UMR



activities that will encourage more interaction between alumni and students during homecoming weekend," says Patterson.

"In addition, we will continue the effort to develop and increase scholarship and endowment programs," he adds.

One way the association will increase scholarship funds is by promoting UMR license plates. "The \$25 donated to UMR for each license plate form will be applied to scholarship funds," says Patterson. "The license plates will also be a source of publicity for the campus." —MB

## JACK AND GEORGE

### *Friendly help for the Alumni Association*

**F**or many retired people, the last thing on their minds is returning to work. Jack Painter and George "Ax" Axmacher, however, are exceptions to the rule.

Jack and George can be found at the MSM-UMR Alumni Association nearly every day. They donate their time in the alumni office. Jack has been working there about two years and George has been volunteering nearly one year.

The alumni office is a logical place for Jack and George to volunteer, as both are graduates of the Missouri School of Mines, now known as UMR. Ax graduated May 1, 1942.

Both Jack and George served in the Navy during World War II. And neither one made Rolla their home after graduation, although Jack was born and raised in Newburg.

Both say they were glad to complete their studies at the university, and George said at that time he would never return. "The day I graduated from here I said, 'If I ever see Rolla again it will be too soon,'" George quipped.

But both returned to the city after their retirement and now call it home. They say they enjoy living in this area. It is close enough to metropolitan areas but does not have the traffic and impersonal attitude of these cities.

***The day I graduated from here I said, "If I ever see Rolla again it will be too soon," George quipped.***

While they admit Rolla does not have the "fast lane" of big city living, they both agree that the key to being happy and keeping busy is to get involved.

"We really like Rolla," George says.

While they know their help at the alumni office is appreciated, George says it is a "two way street." Although they value his assistance at the alumni office, he says if he were not working there he would be sitting at home with nothing to do. And Jack agrees.

Both volunteer their services for about six or seven hours each day. Jack says, "I think you can

safely say we both enjoy working with the great bunch of people at the alumni office."

Some of the things they do include labeling and stuffing envelopes and running errands. George has also done some mechanical drawings, and Jack and George have fixed equipment in the office.

"Everything nobody else wants to do," they both agree. Most of Jack's work is for the MSM Alumnus, the alumni magazine.

While volunteering gives Jack and George things to do every day, they say it does not have the pressures of a "job." Jack says he especially likes it because he can take a day off without feeling guilty.

"You can do your own thing," George agrees. "And we have a lot of fun, too."

Both Jack and George are currently involved in forming a Rolla alumni section. There are 25 UMR sections located around the United States, and they want to start something locally.\* Although there are about 1,100 alumni in the area, many have no idea what is going on at the university.

Jack is a 1950 graduate of the university. Although he did complete an engineering degree, he says he was called back into the Navy following graduation. He made this his career, retiring over 20 years later without ever using his degree in the public workforce.

George also served in the Navy after graduating from UMR. He graduated with a mining degree with a petroleum option but never worked a day as a petroleum engineer. He got involved in engineering sales, mechanical contracting and ended as a manufacturer's representative.

Both agree that the university has changed quite a bit since their graduations. The campus and town are both larger, and both feel there is not as much interaction among the students as well as among the students and townspeople.

They also want to see UMR continue to prosper. Both were involved in fraternities in college and still remain active. Jack is a Sigma Nu and George is a Phi Kappa Theta.

They also admit that UMR is a tough school to graduate from.



"We're both very proud of the school," Jack says. "But I wouldn't go through it again for a million dollars." Ax would.

*\*Editor's note: The Central Ozarks Section of the MSM-UMR Alumni Association is now reality. See related article on page 23.*

—Reprinted courtesy of the Rolla Daily News

# LEARNING ABOUT EARTH AND SKY

## Teachers learn at UMR Earth and Atmospheric Science Summer Institute

**W**hether they were mapping an outcrop of rock formations or learning the basics of weather forecasting, elementary and secondary teachers who attended UMR's Earth and Atmospheric Science Summer Institute plan to take what they learned back to the classroom to teach students about their environment.

The six-week institute focused on two integrated courses—"Environmental Geoscience" and "Basic Weather," says Dr. C. Dale Elifrits, UMR associate professor of geological engineering and the institute director.

"The initial sessions emphasized the fundamental concepts of earth and atmospheric science," Elifrits says. "As the courses progressed, the practical applications of these topics and their interaction with everyday life were presented.

"The earth and atmospheric science courses help teachers meet certification requirements to teach science," he adds.

Lab exercises during the institute included a project at the Missouri Geological Survey where the participants wrote a report about geologic features in their school district. Using their reports, the teachers develop classroom and lab exercises for use in their teaching assignments.

Anne Johnson, who teaches science to fourth and fifth grade students at the Academy of Environmental Science in Independence, says that the institute provided her with information about the Kansas City area, especially the North Rock Creek area, that she can convey to her students. "The North Rock Creek area is located behind our school and includes a bluff, creek and flood plain," Johnson explains. "The area contains sedimentary rock from the Pennsylvanian period and I learned about the stratification of the sedimentary layers."

She adds that what she had learned during the institute will help her explain to the students how erosion and floods affect the North Rock Creek. Tom Butler, an institute instructor, says that his 20 years of experience as a teacher help him assist other teachers in adapting the projects conducted during the institute to classroom use.

"For example, in mapping an outcrop, we determine the type of rock and measure the thickness of the rock beds and the angle at which the beds are tilted," Butler says. "Then we go back to the classroom and draw a map that shows as much as possible, what the area is like."

He adds that middle school students could participate in this type of exercise but some activities would be too difficult for them and would need to be adjusted for their level. Elifrits explains that the first part of the "Environmental Geoscience" course covers the fundamental concepts of physical geology such as mineral and rock identification and the study of basic landforms.

"Later in the course these subjects were presented in relation to how people's activities affect the environment," he adds. "Participants studied environmental topics such as land use and planning, water resources and development, waste water disposal, solid waste disposal and recycling.

"During a previous institute, a participant developed a field exercise which involved the Bennett Springs area," Elifrits says. "For the classroom project, the teacher had the students go to the area and analyze what might happen if a specific action, such as moving a waste water treatment plant closer to the spring, takes place," he explains. "Nobody knows the answer, but the project gives students a better understanding of how people's actions affect the environment.

"As part of the weather course, participants keep a daily weather log to record conditions such as temperature, relative humidity, wind speed and direction, precipitation, sky conditions and barometric pressure," he continues.

"The weather log provides them with data to use during the institute," Elifrits says, "and it will help them instruct their students in gathering data, recognizing patterns and weather forecasting."

Field trips included a visit to the National Weather Service Station in St. Peters, Mo., in addition to the weather data collection operation at UMR.

Butler says that the group made two trips to lead mines in southern Missouri and traveled to sinkholes, underground gas storage areas, quarries and landfills in St. Louis County, in addition to the Phelps County landfill and Rolla waste water treatment facility.

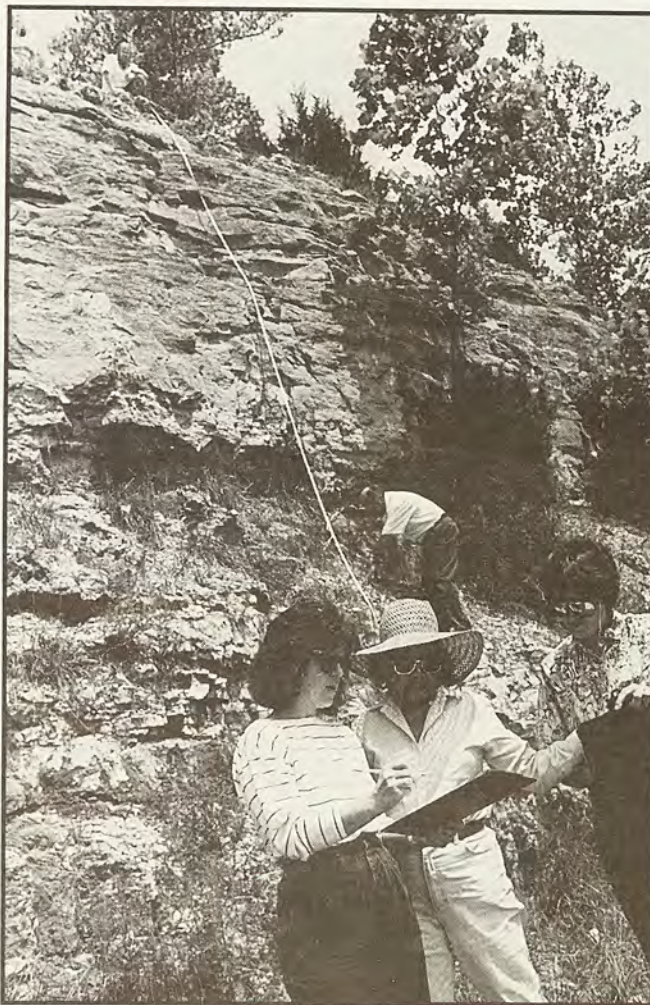
"We also traveled to Slaughter Sink and Boiling Spring near Dixon to draw a hydrologic map of the area," Butler adds.

The institute participants determined some of the activities, Elifrits says, because, through the projects, they were also creating lesson plans for use in their schools. "We help them develop field exercises they can conduct with their students," he says.

Institute instructors were Elifrits, who also is associate director of the Freshman Engineering Program at UMR; Butler, a junior high school teacher of earth science in the Lincoln County R-III School in Troy, Mo.; Dr. John Schmitt, research associate professor of physics and cloud physics at UMR; and Dr. John D. Rockaway, professor of geological engineering at UMR.

Support for the institute, which paid the participants' tuition, was provided by the Eisenhower Act Fund, Title II, through the Missouri Coordinating Board for Higher Education. Participants paid for their living expenses and textbooks. In some cases, these costs were paid by Title II monies from the teacher's school district.

—by Minnie Breuer  
Photo by Dick Hatfield



Teachers who attended UMR's Earth and Atmospheric Science Summer Institute participated in a number of projects including mapping an outcrop of rock formations along Interstate 44. Discussing the procedure are (from left) Sarah Coppersmith, St. James, who is a consultant on the development of teaching materials for various educational groups; Anne Johnson, Kansas City, who teaches at the Academy of Environmental Science; and Julie Kosbar, Rolla, who teaches in the Vienna junior and senior high schools. In the background is Gary Waller, Ferguson, who teaches at Hazelwood West Junior High.

## CAMPUS NEWS

### UMR LISTED IN 'BARRON'S GUIDE TO PRESTIGIOUS COLLEGES' AND U.S. NEWS & WORLD REPORT'S COLLEGE GUIDE

Admissions criteria and top-quality students and faculty are among the reasons UMR is included in the most recent edition of "Barron's Guide to the Most Prestigious Colleges" and the latest issue of U.S. News & World Report's College Guide.

"These listings are an indication of the quality of the students, faculty and educational resources at UMR and they reflect our continuing efforts to provide students with the best education possible," says UMR Chancellor Martin C. Jischke. "We are proud to be included among some of the finest universities in the nation."

Robert B. Lewis, UMR director of admissions, says, "These and other recent publications such as the 'Money Guide to America's Best College Buys,' which ranks UMR 66th in the nation among public schools offering the best education for the money, provide students with information that can be helpful to them when they are selecting a college or university."

The preface to "Barron's Guide to the Most

Prestigious Colleges" says the publication "presents in-depth descriptions of over 300 most highly recognized and most influential colleges in the country." Universities are selected for the guide "based on admissions criteria such as SAT or ACT scores, required class rank and grade average, and percentage of applicants accepted."

The Barron's guide ranks UMR in the "Very Competitive" category with schools such as Purdue University, Texas A&M University and Virginia Polytechnic Institute and State University.

Schools were selected for the U.S. News & World Report guide based on the students' high school class standings and ACT and SAT scores, the percentage of full-time faculty with doctoral degrees and the ratio of full-time students to full-time faculty.

U.S. News & World Report lists UMR with other nationally recognized technological schools including Clemson University, Colorado School of Mines, George Washington University and The Ohio State University.

-MB

### UMR RANKED AS A BEST BUY IN "MONEY COLLEGE GUIDE"

Of the top 100 public colleges and universities in the nation offering the best education for the money, UMR ranks 66th according to the fall 1990 issue of "Money Guide to America's Best College Buys," a special issue of "Money College Guide."

The publication profiles American colleges and universities that provide a high-quality education.

"The University of Missouri-Rolla has an on-going commitment to its students to provide the best education possible," says UMR Chancellor Martin C. Jischke. "To be listed as one of the nation's finest universities is a wonderful recognition of UMR's efforts toward educational excellence."

Robert B. Lewis, director of Admissions at UMR, says, "This is a great honor for UMR to be included as one of the best buys in a college education. It will enhance our recruiting efforts and will reinforce our position as a quality university." The special issue, edited by Eric

Gelman, provides information about financing a college education, choosing the right college, and a ranking of the names of the schools which offer the best education for the cost.

According to the guide, editor Jersey Gilbert developed the information using data supplied primarily by Peterson's Guides, publisher of college directories and self-help books.

The performance data includes 1) how much money each school devotes to student instruction; 2) the number of students that go on to get a Ph.D. degree; 3) the graduation rate among students; 4) the SAT scores and class rank of incoming freshmen; 5) the student-faculty ratio; and 6) the number of books in the library.

The publication notes that the cost comparison system included the use of the school's full official price and the use of out-of-state charges in the case of public schools.

Also included in the issue is a ranking of the 100 top private colleges and universities offering the best education for the money.

-DH

### BAUM FIRST SPEAKER IN 1990-91 'ENGINEERING EDUCATION IN THE 21st CENTURY' LECTURE SERIES

The initial lecture in UMR's "Engineering Education in the 21st Century" series was delivered by Dr. Eleanor Baum, dean of the Albert Nerken School of Engineering at Cooper Union in New York City.

Baum spoke on "Student Diversity: A Challenge for Engineering Education."

"When I decided to become an engineer, student diversity in engineering education was not talked about," Baum said. "There just wasn't any."

She recalled that women were encouraged to become elementary school teachers, nurses or secretaries. And ultimately their fate was to become wives and mothers.

"You didn't think in terms of a career. You thought in terms of working until you had a family," Baum said.

In her own case, her decision to become an engineer was met with skepticism on the part of her family and counselors. In spite of their discouragement, she went on to become an electrical engineer.

Baum recalled that most experts predict a shortage of engineers and scientists of a magnitude never before experienced, and she has a solution to that problem.

"We keep hearing that the United States needs more engineers," Baum said. "We need more engineers for world competitiveness. We need more engineers to stay strong."

"But where are all those engineers going to come from? We have to look around for non-traditional sources of engineers — women and minorities," Baum said.

She explained that our future will depend upon how successfully we recruit, retain and educate these students from diverse backgrounds. She added that there is a need for colleges and universities and the business world to accommodate and encourage this diversity.

Baum also has strong opinions on what it takes to become an engineer and believes that the engineering profession has to do a better job of selling itself.

"Our profession has done an absolutely rotten job of describing what we do. I for one am sick of hearing about the failure of technology," Baum said. "Engineers are problem solvers and we need to get that message across to students and to the public at large."

She encouraged women to pursue careers in engineering if they are "comfortable with math, have a curious mind and are willing to embark on a lifetime of learning."

—Continued on page 15

## UMR'S DR. ROBERT BELL WORKS WITH RESEARCHERS AT UTSA

A sabbatical leave followed by a research leave provided Dr. Robert J. Bell, professor of physics at UMR, with the opportunity to work with other scientists on a number of projects — from advances in sunglasses to oil exploration, from mathematical models on how light scatters to the effects of electromagnetic radiation on brain cells.

Bell recently returned to UMR after performing research at the University of Texas at San Antonio (UTSA).

"I worked with a group of scientists who were conducting research on melanin, the dye in the human body that determines the color of eyes, hair and skin," explains Bell.

"Dr. James Gallas, a researcher at UTSA, had completed the project to the point where he could artificially produce melanin for use in plastics," Bell continues. "The artificially produced pigment can be matched to eye colors.

"As a result of the research, an optical company has contracted with Dr. Gallas to use the dyes in sunglasses," Bell says. "Because certain eye colors are more sensitive to light than others, the sunglasses can be custom-made for individual eye colors and, therefore, will provide more effective protection from the sun.

"As part of the project, I compared the ability of melanin with that of small carbon particles to absorb ultraviolet rays," Bell says. "Although carbon is considered to be the better absorber, I found that melanin absorbed ultraviolet rays more efficiently.

Bell explains that another research project at UTSA involved fractals, a relatively new branch of mathematics.

"Fractals are mathematical equations that can be used to make a variety of designs," he explains. "For example, fractals have produced pictures of mountains which have been used for backgrounds in movie settings.

"Using fractals to simulate how light is scattered

off small particles," he continues, "I was able to understand how light is scattered from different distribution points."

Along with other researchers at UTSA, Bell is also studying new theories for water and oil exploration. "We are trying to detect underground faults without drilling," he says.

Bell and Dr. Ralph Alexander, UMR professor and chairman of physics, are participating with Dr. Marvin Querry, dean of graduate faculties and research at the University of Missouri-Kansas City, in a solid state physics project in which they studied 17 metals on the periodic table.

"I used the data that we had developed to predict the optical properties of these metals and found a close correlation between elements located near each other on the table," he says. "No one had made this correlation of the optical properties before."

In addition, Bell and Alexander have proposed a research project with Drs. Patrick Nash and Deborah Armstrong from UTSA to determine if emissions from electric power lines and electrical wiring in homes have any damaging effects on the brain.

"Dr. Armstrong can grow neurons taken from the brains of mice fetuses," Bell explains, "and we want to study the effect of electromagnetic radiation on the growth of these neurons.

"Some foreign scientists believe that the intensity of radar signals, which transmit electromagnetic waves, affect a person's ability to think clearly," Bell says. "Measurements taken by researchers in the United States have not verified this and we are proposing this project to determine if the brain receives any damaging effects."

Bell adds that he was interested in conducting research in San Antonio for several reasons. "The area is well-known for its biology and medical research centers," he says, "and UTSA has a strong research group in biology." **-MB**

## UMR'S THOMAS O'KEEFE SELECTED TO DELIVER 1991 TMS LECTURE

Dr. Thomas J. O'Keefe, Curators' Professor of metallurgical engineering and senior research investigator of the Graduate Center for Materials Research at UMR, has been named Extractive Metallurgy Lecturer for The Minerals, Metals and Materials Society's (TMS) 1991 annual meeting and exhibition, to be held in New Orleans, Feb. 17-21.

According to TMS, the honor is "bestowed upon eminent individuals in the field of nonferrous extractive metallurgy."

O'Keefe received B.S. (1958) and Ph.D. (1965)

degrees in metallurgical engineering from UMR.

He currently serves as director of UMR's Institute for Chemical and Extractive Metallurgy. O'Keefe's research interests are in the various areas of electrolytic processing, materials recycling, and metal films for electronic and high technology applications.

O'Keefe has been honored numerous times for his outstanding contributions to teaching and research. He is the author of more than 60 technical publications and holds two patents. **-DH**

## PLACEMENT SERVICES AVAILABLE TO ALUMNI

Many UMR alumni employed in defense-related industries are somewhat concerned about the effects of anticipated reductions in defense spending on their employment. Fortunately, other segments of business and industry seem to be needing greater numbers of engineers and scientists at all levels of experience. In addition, retirements create significant openings each year, while the number of new engineering graduates is presently decreasing. For those affected by lay-offs, UMR offers services which may be of help.

Some of the career placement services provided by the UMR Career and Placement Center which may be of help are the following:

1. Alumni may subscribe to the Career and Placement Center twice-monthly Alumni Job Listings, which consist of condensed descriptions of available positions received in the office from prospective employers seeking experience graduates. The cost is \$25.00 for a six-month subscription.

2. Alumni with only limited experience may prefer to subscribe to the Job Listings for entry level graduates. This listing is similar to that for experienced graduates except the positions require less experience. The cost is \$15.00 for three months.

3. Alumni may also place a resume on file for distribution to employers. These are mailed to the same employers who are listed in the alumni job listings. Some alumni prefer that the center send their resumes, but most prefer to send their own in response to announcements in the alumni job listings.

4. Alumni are welcome to use the reference materials in the office for assistance in locating potential employers. Available are various directories as well as many individual files for the companies who interview graduating students. Some employers also have video tapes on file and viewing equipment is available in the office.

For further information contact Paul Ponder, Career and Placement Center, 201 Buehler Building, UMR, Rolla, MO 65401, or phone 314-341-4254.

## UMR RECEIVES GRANT FROM SOUTHWESTERN BELL FOUNDATION

UMR will have a more effective means of recruiting and retaining minority students for its Minority Engineering Program thanks to an \$80,000 grant received from the Southwestern Bell Foundation.

"On behalf of the campus, our students and faculty, I want to thank Southwestern Bell for its generous grant to UMR," says UMR Chancellor Martin C. Jischke. "This grant will enhance greatly UMR's ongoing commitment to attract and retain minority students."

"To work with the University of Missouri-Rolla on this project is ideal for Southwestern Bell Corporation (SBC)," says LeRoy Grant, area manager-Community Relations, Missouri Operations for Southwestern Bell Telephone. "Education is a high priority for the SBC Foundation, and to be able to support such a proven program for minority student retention is a tremendous opportunity for everyone involved."

Floyd Harris, director of UMR's Minority Engineering Program, says the grant will be specifically used to 1) offer a credit course at UMR for entering minority students; 2) invite 50 high school mathematics and science teachers to visit the UMR campus and learn about the various courses and opportunities for minority students; 3) offer an eight-week program for ninth-grade students in St. Louis on "Elements of Engineering"; and 4) fund a two-week summer program at UMR titled "Introduction to the Sciences" for minority high school sophomores and juniors statewide.

"We are grateful for the support provided by Southwestern Bell," Harris says. "The foundation's grant will add to the preparedness of our minority engineering graduates, enabling them to contribute with enhanced knowledge, skills and abilities necessary to meet the challenges of the 1990s and beyond."

-DH

## BAUM (Cont. from page 13)

Baum advised higher education institutions to "pipeline in" engineering students from other colleges, rather than rely on traditional career paths.

"Many students are not prepared to make the decision to become engineers right out of high school," Baum said. "Transfer students from two-year institutions are a good source of engineering students."

She believes that women and minorities need positive role models. A poll of thousands of women engineers she once helped conduct showed that approximately 70 percent had a family member who was also an engineer.

UMR Chancellor Martin C. Jischke says that the lecture series " was initiated during the 1989-90 academic year to enhance campuswide discussions about the future of engineering education."

## GEOLOGICAL ENGINEERING DEPARTMENT RECEIVES SCHOLARSHIP FUNDS FROM GOLDER ASSOCIATES

Golder Associates Inc., a worldwide consulting engineering firm, has established five \$1,000 scholarships for geological engineering students at UMR.

The scholarships will be awarded on the basis of SAT or ACT scores to beginning geological engineering students interested in pursuing careers in environmental and geotechnical fields and will be presented annually.

"These scholarships will help students prepare for careers in which they are likely to find their knowledge and skills in demand by employers because the cleanup and management of society's wastes has prompted a demand for professionals trained in environmental areas," says Dr. David J. Barr, professor and chairman of geological engineering at UMR.

Barr explains that the work that will be done in

these jobs ranges from disposing of wastes that pose a threat to public safety to protecting the quality of the aquifers from which we extract the water we drink.

"At present, companies cannot find enough trained professionals to keep up with the need," he adds. "In the department, we get on the average one call a day from consulting firms and federal and state agencies wanting to hire geological engineering graduates for environmental positions."

In addition to the scholarships, Golder Associates Inc. personnel will lecture at UMR on a semiannual or annual basis.

For more information contact the Geological Engineering Department, 125 McNutt Hall, UMR, Rolla, Mo. 65401, or phone 314-341-4867.

-MB

## FT. LEONARD WOOD RECEIVES ASSISTANCE WITH TQM FROM UMR

UMR currently is assisting Fort Leonard Wood with the implementation of a new management philosophy on "Total Quality Management" (TQM). According to Dr. Peter Schmidt, UMR assistant professor of engineering management and principal investigator for the program, TQM is an approach for constantly improving quality and productivity through the participation of all levels of an organization.

"It stresses the systematic examination of processes to identify and correct sources of error and waste," Schmidt says. "The goal is to provide high quality goods and services in the most efficient manner possible."

Maj. General Daniel R. Schroeder, Commanding General and Commandant, United States Army Engineer School at Ft. Leonard Wood, says TQM is being adopted throughout the Department of Defense, but Ft. Wood is one of the first installations of its kind to do so.

Schroeder explains that Ft. Wood received the Army's prestigious Community of Excellence Award in 1985 and 1987. "We believe TQM will help us continue to improve the standards represented by those awards."

According to Schmidt, TQM will be implemented in three directorates including logistics, resource management, and contracting. Eventually, the program will be introduced in other functional areas.

Schmidt indicates that he, along with James Highfill, lecturer in engineering management at UMR, are providing advice regarding the best approach for implementing TQM, and are conducting training in the various skills and techniques used in the program.

"Managers, employees and facilitators in the three directorates will complete this training by the end of the year and will begin addressing issues in their organizations soon after that," Schmidt says.

-DH

## ASSOCIATION OF MISSOURI GEOLOGISTS MEET IN ROLLA FOR 1990 BANQUET AND FIELD TRIP

The UMR Department of Geology & Geophysics, in conjunction with A. P. Green Refractories of Mexico, Mo., sponsored the 1990 meeting of the Association of Missouri Geologists (AMG) this year in Rolla. On Friday, Sept. 28, approximately 100 professional geologists from throughout the state met at Zeno's for the association's annual banquet. Jim Westcott of A. P. Green Refractories gave the keynote address on the history of the clay minerals industry in Missouri.

Two field trips were run in conjunction with the meeting. Dr. Alfred C. Spreng and Dr. Robert C. Laudon of the UMR department of geology and geophysics ran the Friday afternoon field trip to

observe the stratigraphic sequence and karst features along Highway 63 to the north of Rolla.

Charles E. Stack and James F. Westcott of A. P. Green Refractories ran the Saturday trip to observe several active claypits in the Mexico, Mo. region. The combined field trips brought together geologists from many different regions to discuss the origin of all karst features across the state of Missouri and beyond.

Approximately 70 people attended both field trips. The field trips and banquet were coordinated by Laudon. He is the AMG vice president for 1990 and president elect for 1991.



## In Memoriam

### EARL E. FEIND

Earl E. Feind, M.D., died Sept. 3, 1990, at Phelps County Regional Medical Center. He was 80.

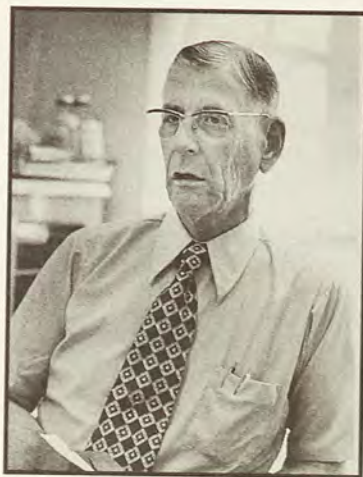
Survivors include two daughters and sons-in-law, Judy and Ed Stigall, of Annapolis, Md., and Kathy and Echol (Bud) Cook, of Carbondale, Ill.; one brother, Clarence Feind, of Hazel, S.D.; five sisters, Mary Holzworth, of Hazel, S.D., Nell Greening, of Del Rapids, S.D., Alice Feind, of Hazel, S.D., Hazel Dunn, of Clear Lake, S.D., Helen, of the state of South Dakota; and four granddaughters.

In 1937, Dr. Feind became the director of student health and senior staff physician for the Missouri School of Mines, now UMR. At that time, the infirmary was in an old house where Altman Hall stands. Enrollment was 450 students at that time.

For many years—all through World War II and up to 1950—Dr. Feind was the only physician taking care of the students' health needs. He would be available once a day for consultation with students and on call for emergencies. This, of course, was in addition to his regular practice.

In 1950, he joined with Dr. William Lytle and Dr. James Myers to form the Rolla Clinic. His association with the student infirmary continued for many years.

Dr. Feind grew up as one of 10 children on a farm in South Dakota. He attended Western Union College, now Westmar College in LeMars, Iowa, and the University of South



Dakota in Vermillion, where he received his B.S. degree in medicine. His doctorate in medicine was earned at the University of Nebraska School in Medicine in Omaha.

After receiving his degree, Dr. Feind spent a year as an intern in the Missouri Pacific Hospital, Little Rock, Ark. He spent another year as house physician in the Missouri Pacific Hospital in St. Louis before setting up a general practice in Rolla in 1935.

Dr. Feind estimated that through the years he delivered more than 3,000 babies in Rolla and the surrounding areas.

Dr. Feind was a member of the First Presbyterian Church of Rolla. He was a physician in the Rolla area for more than 50 years. He served on the Rolla Board of Education, was a member and past-president of the Rolla Lions Club and was a board member of the Boatmen's Bank, formerly Rolla State Bank.

—Reprinted from the Rolla Daily News.

### GEORGE B. CLARK

George B. Clark, 78, died Wednesday, Aug. 15, 1990, at Wheatridge, Colo. Dr. Clark, UMR professor emeritus and former chairman of the UMR mining engineering department was also associate director of research at UMR. He formed and directed the Rock Mechanics and Explosives Research Center at the Rolla campus from 1964 until his retirement in 1976.

He was then appointed Brown Professor of Mining Engineering at the Colorado School of Mines and retired from that position to become a consulting mining engineer.

Dr. Clark's work on the use of ammonium nitrate fuel oil blasting agents was basic to their use in blasting in the United States and abroad. His experimental studies of rock fragmentation enabled him to obtain grants which he used to gain national and international rec-

ognition for the UMR Rock Mechanics and Explosives Research Center. His many contributions to his field were recognized by a 1977 citation by the National Academy of Sciences/National Academy of Engineering.

Dr. Clark was the author and co-author of two textbooks as well as articles in both the Encyclopedia Britannica and Encyclopedia Americana on mining and blasting.

Dr. Clark was a member of the Church of Jesus Christ of Latter Day Saints and served on the church Bishopric.

He is survived by his wife, Barbara, and his children, Elizabeth, Margaret, Melinda and David of Denver; George Hall, of the U.S. Air Force; John and Richard, of Provo, Utah; and five grandchildren.

### DIRECTOR OF NEWS SERVICES APPOINTED

Dr. Annette C. Sanders has been appointed Director of News Services at UMR, effective August 1. She will direct the news/media, press relations office at UMR, reporting to the Vice-Chancellor for Advancement.

Sanders has been with the University of Missouri-Columbia for nearly 18 years, having worked as a medical script writer, extension information specialist for medicine, agriculture and nursing, and director of engineering communications at UMC's College of Engineering. Sanders has received state, regional and national recognition for news and public relations work.

In 1987, she was appointed Coordinator of Special Projects with University Events and helped promote the University's Sesquicentennial. She also directed the award-winning "Meet Mizzou" series which aired in 1988 on the televised Norm Stewart basketball show. Most recently Sanders served as supervisor of the Instructional Materials Center in the UMC College of Education.

Sanders earned a B.S. degree in biology (1965) from McNeese State University in Lake Charles, La.; an M.A. degree in botany (1970) from the University of Massachusetts in Amherst, Mass.; a M.Ed. degree in science education (1972) and a Ph.D. degree in instructional media (1986), from the University of Missouri-Columbia.

Sanders is a member of the Missouri Press Association and Missouri Press Women, having served as state president of MPW from 1987-89. She currently is a member of the board of directors and a national officer in the national Federation of Press Women. She is a member of the American Association of University Women, a life member of Pi Lambda Theta, honor and professional association in education, and a member of Phi Delta Kappa, honor and professional society in education.

## JOHN W. WILSON NAMED CHAIRMAN OF MINING ENGINEERING



Dr. John W. Wilson, vice president and general manager of Mining Operations, TransAfrican Mining Ltd., Atlanta, Ga., has been named chairman and professor of the Department of Mining Engineering at UMR. The appointment was effective July 1.

"Dr. Wilson has an outstanding record in the mining industry and his administrative experience and knowledge will make him an important asset to the department and school," says Dr. Don L. Warner, dean of UMR's school of Mines and Metallurgy.

Before joining TransAfrican Ltd., which is a Bermuda corporation with precious metals interests in West Africa, Wilson served from 1987 to 1989 as a principal and group vice president responsible for the management of the United States operations of Golder Associates, Inc., Atlanta, a geotechnical and mining consulting company.

From 1985 to 1987 he served as president, chief operating officer and director with ADMAC, Inc., Kent, Wa., a manufacturer of ultra high pressure waterjet systems.

For five years prior to joining ADMAC, Wilson served as president of Mining Equipment Companies, a division of Smith International, Inc., a multi-national manufacturer of oil drilling and mining equipment.

From 1977 to 1980, he was president of Ada Mining Corporation, a coal mining subsidiary of Adams Resources and Energy, Inc.

He also has served with companies including the Consolidation Coal Company, Pittsburgh, Pa. (1975-77) and the Anglo American Corporation (1962-75).

Wilson received a B.S. degree in mining engineering from the University of Durham, England, in 1961. He received an M.S. degree in mining engineering from the University of Newcastle-Upon-Tyne, England, in 1965 and a Ph.D. degree in mining engineering from the University of Witwatersrand, Johannesburg, South Africa, in 1971. He also attended the Program for Management Development at Harvard Business School, Boston, in 1972.

-DH

## ERNIE GUTIERREZ APPOINTED DIRECTOR OF PUBLICATIONS

Ernie Gutierrez, '77, of Rolla recently was appointed Director of Publications at UMR. In his capacity as director, Gutierrez supervises production of all external UMR publications including undergraduate and graduate catalogs, application booklets, student recruitment brochures and the MSM Alumnus.

Gutierrez joined the UMR staff in 1970 as a senior photographer. In 1987 he became a senior information specialist writing news and feature releases for the Office of News and Publications. He served as interim director of UMR News Services from February 1990 to August 1990.

In addition, he has taught photography courses at UMR on a part-time basis since 1979 and was a

lecturer in Spanish for one year.

Prior to joining the UMR staff, Gutierrez was employed at McDonnell Douglas in St. Louis as a public relations photographer.

He obtained a bachelor's degree in English from UMR in 1977 while working for the university and has done graduate-level work in journalism at the University of Missouri-Columbia.

Gutierrez has received or shared in a number of awards for photographic excellence and design and feature writing.

He is a member of the Optimist Club of Rolla and is president-elect of the board of directors of Big Brothers/Big Sisters of Rolla.

-MB

## LAMAR NAMED DIRECTOR OF ACCOUNTING/FISCAL SERVICES

Andrew L. Lamar, assistant director of Accounting/Fiscal Services, has been named director of Accounting/Fiscal Services for UMR. The appointment was effective Oct. 1. Lamar replaces Wallace C. Craig, who retired after 25 years of service at UMR.

Lamar, a native of Rolla, is a 1971 graduate of Rolla High School. He received a B.S. degree in business administration from the University of

Missouri-Columbia in 1975.

He joined UMR Accounting and Fiscal Services Department in 1979 as an accountant and was promoted to the assistant director position in 1981.

Lamar has been active with the Rolla Khoury League and the Rolla Area Girl Scouts. He has co-chaired the UMR United Fund Campaign and is the immediate past president of the University Orators Toastmasters Club.

-ACS

## ELIZABETH CUMMINS NAMED CHAIR OF ENGLISH DEPARTMENT

Dr. Elizabeth Cummins, UMR associate professor of English, has been named chair of the UMR English department effective this fall. She has the honor of being the first woman to chair a UMR academic department.

Cummins is a well-known authority in the science-fiction genre, especially on the works of Ursula K. Le Guin. She has written two books on Le Guin and numerous articles on the topic of science fiction and on Le Guin in particular.

She has received three UMR Faculty Excellence Awards and a UMR Outstanding Teacher Award. Cummins has served as chair of the UMR Task Force for Greek Life Review and co-directed, with Dr. Catherine Riordan, the UMR "Women at Work" lecture series which was awarded a second place in the National Division of Continuing Education for Women, Creative Programing, in 1982.

Cummins has taught several short courses for UMR staff members in addition to her duties in the English department.

She is a member of the Modern Language Association, the Science Fiction Research Association, the National Council of Teachers of English, the Midwest Modern Language Association, the Missouri Philological Association and the Arkansas Philological Association.

She joined the UMR faculty in 1967 as an instructor in English, was promoted to assistant professor in 1985 and to associate professor in 1987.

Cummins received a Ph.D. degree in English in 1985 from the University of Illinois at Urbana-Champaign; M.A. and A.B. degrees in English in 1962 and 1960, respectively, from the University of South Dakota; and an A.A. degree from Cottey College in 1958. She also was a Fulbright Scholar at the University of Bristol, England, in the 1960-61 academic year.

-EG



## METALLURGICAL STUDENT RECEIVES SCHOLARSHIP AWARD FROM TMS

Joel Philliber, a senior in metallurgical engineering at UMR from Sedalia, is the recipient of a \$2,000 scholarship award from The Minerals, Metals and Materials Society (TMS) and The Seven Springs Conference Organizing Committee. Philliber will receive the award during a TMS meeting in Detroit, in October.

The scholarship is one of two presented annually to an undergraduate student who shows outstanding potential in the field of metallurgy/materials science.

While at UMR, Philliber has worked as a co-op

intern at General Electric's Aircraft Engine Division.

He is the recipient of numerous scholastic honors and awards including Phi Eta Sigma Freshman Honor Society, Alpha Sigma Mu Materials Honor Society, Tau Beta Pi Engineering Honor Society, Chancellor's Undergraduate Research Program and two General Electric Outstanding Achievement Awards.

Philliber also has served as TMS-ASM Student Chapter Treasurer.

-DH

## AEROSPACE STUDENT RECEIVES BOEING COMPANY SCHOLARSHIP

Scott Eric Maycock, a UMR student from Omaha, is the recipient of a scholarship from The Boeing Company for the 1990-91 academic year.

Maycock is a junior majoring in aerospace engineering. He is the son of Fred and Liz Maycock of Omaha.

He was selected for the scholarship by UMR, which administers the scholarship funds.

Recipients of Boeing grants, awards, fellowships or scholarships are selected without regard to race, color, religion, sex or national origin, provided they are United States citizens.

-MB

## JOSEPH M. HAAS RECEIVES MOTOROLA DESIGN AWARD

Joseph M. Haas, a 1989 graduate of UMR, won third place in the 1989-90 University Design Contest, sponsored by Motorola, for his undergraduate project, "A Controller for FM Voice Repeaters in Amateur Service." The award was announced recently by the Motorola Microcontroller Division.

Haas received a Macintosh SE 30 computer system for his winning design. In addition, the UMR department of electrical engineering received a \$25,000 grant of laboratory equipment from Motorola.

The project, which was organized around the Motorola 68HC11 microcontroller, was conducted under the direction of Dr. Darrow F. Dawson, UMR professor of electrical engineering.

The controller station has been used by the Amateur Radio Club at UMR.

Haas currently is employed as an electrical engineer at Brewer Science Inc. in Rolla. He is the son of Joe and Geneva Haas of Blue Springs.

-MB

## PARENTS' DAY HONORS

**D**avid E. and Jill A. Black of Springfield, Mo., have been named Parents of the Year for 1990 by the UMR Parents' Association at its annual meeting during Parents' Day, Nov. 3. The Blacks were nominated by their daughter, Cindy, a UMR senior in civil engineering.

In her nomination, Cindy says her parents have supported and encouraged their four daughters through a number of activities in-

cluding school work, gymnastics, ballet, track, swimming and softball. She says her parents attended every game in which the girls participated and every scholastic event in which they were honored.

Cindy's sisters are Julie, who is studying economics at Columbia University in New York; Holly, an architecture student at Drury College in Springfield; and Debbie, who is planning to major in civil engineering at UMR in the fall of 1992.

"My parents are determined to help us get the education we want no matter what it means," says Cindy. "I know that there are very few parents out there who would go through the same personal sacrifices as mine have."

David Black is employed with Keltner Enterprises in Springfield and Jill Black teaches seventh through 12th grade science at Everton Schools.



James R. McLeane, a teaching assistant in the UMR mathematics department, has been named the UMR Parents' Association Outstanding Graduate Teaching Assistant for 1990.

McLeane, who is from Creve Coeur, Mo., received a B.S. degree in engineering management from UMR in 1987 and is a candidate for a master's degree in applied mathematics from UMR in December.

He was presented a \$500 stipend and a certificate of appreciation during the UMR Parents' Association annual meeting on Parents' Day Nov. 3.

The award was established in 1982 by the association to show its appreciation for the work of UMR's graduate teaching assistants. UMR students selected McLeane for the honor as part of the campus's Outstanding Teacher award program.



Front Row, left to right: Holly Black, David Black, Jill Black. Back Row, left to right: Chancellor Martin Jischke, Debbie Black, Cindy Black, Julie Black, Joe Volk, president of the UMR Parents' Association.

# MINER SPORTS

## 1990 FOOTBALL..SO CLOSE AND YET SO FAR

**C**lose calls have been the word this season for the UMR football team. Unfortunately, it has not resulted in any victories for the Miners as they struggled through the longest losing streak in NCAA Division II football.

It is not that the Miners haven't had their chances this fall. They have led two games in the fourth quarter and have been within seven points in three others. The end result, though, found the other team on top.

The season has been eventful in more ways than one. Head coach Charlie Finley was sidelined for four weeks after he suffered a heart attack at halftime of the game at Northeast Missouri State. Longtime assistant Joe Keeton served as the acting head coach during his absence.

September: The Miners had opportunities in each of the first three games, but were unable to make the big play in each.

Six turnovers, including one on the Washburn three yard line, doomed UMR in the opening day 13-7 loss to the visiting Ichabods. A week later, Finley saw his team rebound from a two-touchdown deficit to take a halftime lead at Northeast.

The Miners went on to lose the game 24-17 on a last-minute touchdown pass. Two late turnovers thwarted drives in the 24-21 loss to Missouri Western, before Division I-AA Illinois State whipped UMR 46-0.

October: Four minutes separated the Miners from an upset at Southeast Missouri State, but the Indians scored to take the lead for good in the 28-17 win. Southeast had been nationally ranked in the first half of the season.

Homecoming Day at UMR was an opportunity to break the streak, but a struggling Northwest Missouri State team got out with a 21-13 win. The game marked Finley's return to the sidelines after four weeks away from the job.

The Miners dropped to 0-8 with losses to Pittsburg State and Central Missouri State.

Leading the way for the Miners this year has been fullback Rick Henry, who has had a succession of solid games in October. He has rushed for 405 yards this year. Fellow sophomore Vincent Banks is among the national leaders in punt returning, ranking sixth as late as Oct. 27, while Mike Swinford and Don Huff have paced the defense.

Photo by Gary Hinzpeter  
Rolla Daily News



## LADY MINERS READY FOR SEASON

**J**ennifer Cordes accomplished a lot in her career at UMR, capped off by her All-American selection after a senior year that saw her become the school's all-time leading scorer.

She will still be around this year as a student assistant coach as her mentor, Mary Ortelee, tries to lead the Lady Miners to bigger and better things.

It could happen. Even without Cordes and Colette Neal, who also graduated last year, Ortelee may have one of her best teams ever. It will certainly be her deepest, as the Lady Miners bring back nine letterwinners, along with two transfers and a freshman class that could make an impact on the league.

"This is the most depth that I have ever had," Ortelee said. "We will also be much more balanced, which will make us harder to defend. We can score from all five positions.

"Certainly it hurts to lose a player of Jennifer's quality, but scoring-wise we will be better because last year everyone expected her to score. Everyone will have to step up a notch now so we will be more multi-dimensional."

Cordes averaged 17.1 points per game last year, but nobody else averaged in double figures. That will have to change this season and the personnel is there to do it.

Up front, the Lady Miners have experience in seniors Jennifer Schnur, Casey Engstrom, and Sarah Conyers, all of whom have started during their collegiate careers. They will be joined by returner Stacy Mathes, and three new faces in UMR uniforms—transfers Karissa McCarter and Korena Stevens, and freshman Joe Kvetensky.

Schnur was the team's most improved player last year, and with Engstrom, McCarter and Kvetensky should provide the offensive punch necessary to ease the loss of Cordes.

McCarter, a transfer from Arkansas State, should provide the biggest impact among the newcomers. She was with the squad last year but was unable to play.

In the backcourt, the Lady Miners have four players who have started at one point or another in their careers. They have two junior point guards who shared that role last year in Anita Keck and Suzanne Spencer, while the shooting guard spot will be handled by senior Jan Grotenhuis and junior Trish Van Diggelen.

The latter is the top returning scorer from last year (9.2 points per game) and was sixth nationally in three-point percentage last year. Van Diggelen was the best in the nation two years ago as a freshman.

Another newcomer who could see plenty of action is Erika Nelson, a freshman who can play either guard or small forward.

Rounding out the 1990-91 roster will be sopho-

—Please go to next page

## LADY MINERS, CONTINUED FROM PAGE 17

more guard Cathlin Maloney, who is making the transition from forward, and freshman point guard Amy Geisler from Waynesville.

The Lady Miners finished in a tie for third place in the MIAA last season, and according to Orteele, will have to stay "healthy and happy" if they are to move closer to the top rung in the league. UMR was 17-11 overall last year.

"The league will be tougher," Orteele said. "It has just gotten that much better. Our goals last year were to get into the conference tournament and host a game, and we accomplished both. Now we would like to go a step further and get to the second round."

### 1990-91 WOMEN'S BASKETBALL SCHEDULE

DATE PLACE	OPPONENT TIME
Sat., Dec 1 Rolla, MO	Quincy College 7:00
Dec. 7 & 8 (Fri. & Sat.) Bolivar, MO	SBU — Mary Kay Classic 6:00
Dec. 16 — 23 Nassau, Bahamas	Nassau Sunshine Shootout TBA
Sat., Jan. 5 Kirksville, MO	Northeast Missouri State 7:00
Mon. Jan. 7 Rolla	Lincoln University 7:00
Thurs., Jan. 10 Bolivar, MO	Southwest Baptist University 5:30
Sat., Jan. 12 Rolla	Missouri Western 5:30
Wed., Jan. 16 St. Louis	University of Missouri-St. Louis 5:30
Sat., Jan. 19 Warrensburg, MO	Central Missouri State University 5:30
Wed., Jan. 23 Joplin, MO	Missouri Southern State 5:30
Sat., Jan. 26 Rolla	Pittsburg State 5:30
Wed., Jan. 30 Rolla	Southwest Baptist 5:30
Sat., Feb. 2 Cape Girardeau	Southeast Missouri State 5:30
Wed., Feb. 6 Rolla	University of Missouri-St. Louis 5:30
Sat., Feb. 9 Rolla	Washburn University 5:30
Wed., Feb. 13 Rolla	Missouri Southern State 5:30
Sat., Feb. 16 Pittsburg, KS	Pittsburg State 5:30
Wed., Feb. 20 Rolla	Southeast Missouri State 5:30
Sat., Feb. 23 Maryville, MO	Northwest Missouri State 5:30
Feb. 26 & 28, March 2 TBA	MIAA Tournament TBA

## MEN CAGERS START THEIR SEASON DEC. 1

There is reason for Coach Dale Martin's optimism. A large portion of the team that made the school's first appearance in the MIAA post-season tournament since 1981 is back. Additionally, it is a young team that improved as the year progressed and can only get better with time.

"With our finish last year, we have a little more confidence as a team in our ability to play in the MIAA," Martin said. "The fact that we have three starters back and add William McCauley to that really gives us a good feeling going into the season."

McCauley missed almost the entire 1989-90 season with an injury after averaging 12 points per game during his junior year. His return will lend a veteran presence to a team that will otherwise be young. Eight of the 13 players on the roster are either freshmen or sophomores who saw valuable playing time as freshmen, and the four newcomers are all expected to contribute in some way.

"This is the first time that we have made it through the pre-season without anyone getting hurt," Martin said. "I feel at this time that we should be further ahead than at this time last year because of the returners we have back."

Inside, the Miners have one of the biggest players in the conference in 6-9 sophomore center Donnie Brown. While he is strong on the offensive end, Chris Schneider, a 6-7 senior, is a strong defensive player at the same position. The two should share a lot of time there this season.

At forward, the Miners have big people in freshmen Tony Johnson and Larry Smith, both of whom could see a lot of playing time. They

also have a couple of solid small forwards in McCauley, at 6-2, and Chris Dawson, a 6-3 sophomore who was named to the MIAA's All-Freshman team last year.

In the backcourt, another All-Freshman team selection will vie for a starting spot. Bill Jolly, who led the team in three-pointers with 36, will try to reclaim his starting role there, while incumbents Mike Parmeley and Jon Huecker will challenge.

The point guard spot is likely to be filled by junior college transfer Danny Gold. Gold is a slick-passing guard who is best in a transition game, therefore making him suitable for the MIAA style of play. He will be backed by freshman Rod Jackson, who could also see time at the shooting guard position.

"Gold will really stabilize the point guard spot, which will allow Jolly to go back to his natural position at two guard," Martin said. "Our new 6-6 forwards (Smith and Johnson) should help us and we got a fine athlete in Jackson."

One of the big keys to the Miner season will be shooting. As simple as it sounds, the Miners were last in the conference in shooting last season at 43.4 percent, and that mark will have to improve if they are to improve on sixth place.

"How well we shoot from the field will be a key to our success," Martin said. "Another will be how well our defense can stop a good player at the forward position."

Defensively, the Miners should be solid. Despite the offensive difficulties, UMR finished third in the MIAA in points allowed behind NCAA participants Central Missouri State and Southwest Baptist.

### 1990-91 MEN'S BASKETBALL SCHEDULE

DATE	OPPONENT	PLACE
Dec. 1	Drury College	Springfield, MO
Dec. 3	Westminster College	Rolla, MO
Dec. 8	Northeast Missouri State	Rolla, MO
Dec. 15	University of Arkansas-Pine Bluff	Pine, Bluff, AR
Jan. 2	University of Arkansas-Pine Bluff	Rolla, MO
Jan. 4 & 5 Fri. & Sat.	Northwest Missouri Classic Cameron University Eastern Montana	Maryville, M.
Jan. 10	*Southwest Baptist University	Bolivar, MO
Jan. 12	*Missouri Western	Rolla, MO
Jan. 16	*University of Missouri-St. Louis	St. Louis, MO
Jan. 19	*Central Missouri State University	Warrensburg, MO
Jan. 23	*Missouri Southern State	Joplin, MO
Jan. 26	*Pittsburg State University	Rolla, MO
Jan. 30	*Southwest Baptist University	Rolla, MO
Feb. 2	*Southeast Missouri State University	Cape Girardeau, MO
Feb. 6	*University Missouri-St. Louis	Rolla, MO
Feb. 9	*Washburn University	Rolla, MO
Feb. 13	*Missouri Southern State	Rolla, MO
Feb. 16	*Pittsburg State University	Pittsburg, KS
Feb. 20	*Southeast Missouri State	Rolla, MO
Feb. 23	*Northwest Missouri State	Maryville, MO
Feb. 26	*Lincoln University	Rolla, MO
Mar. 2	*Northeast Missouri State	Kirksville, MO

\*Conference women's games will start at 5:30. Men's games will start 30 minutes after the women's games, but not before 7:30 PM.

## SWIMMING

The 1990-91 swimming season got off to an early start this year as the Miners faced Evansville on Oct. 27. The Miners fell in that meet 130-107, but are expected to be one of the region's best teams again this season.

UMR coach Mark Mullin saw the early opener as an opportunity to evaluate his team in the early going.

"I really feel good at this point," he said. "Our practices have gone well. I would like to see where we're at and it is important for us to get a look at our freshmen and transfers to see how they react in competitive situations."

Heading the Miner swimmers this season will be Jeff Kuta, the only Miner to ever swim under 21 seconds in the 50 meter freestyle. The junior from St. Louis earned All-American honors last year.

"He has been one of our best in the two years he has been here," Mullin said. "I can count only two or three times when he has been beaten in that event. He swims better while working hard."

Mike Stus is another junior that Mullin is counting on for points in the upcoming season. Stus and Kuta won two events each in the opener and had a hand in a relay victory for the Miners.

"The attitude of the team is extremely good this year," Mullin said. "They appear to be a close knit group and have gotten behind each other, and that should help us when we get into the meet season."

The Miners have three home meets scheduled for this season, all prior to the Christmas holidays.

### 1990-91 SWIMMING SCHEDULE

Dec. 1	Southwest Missouri State	1 p.m.
Dec. 7	WASHINGTON UNIVERSITY UNIVERSITY OF MISSOURI- ST. LOUIS	7 p.m.
Dec. 8	ARKANSAS-LITTLE ROCK	2 p.m.
Jan. 5	Mission Invitational (Florida Atlantic)	
Jan. 12	Northeast Missouri State	1 p.m.
Jan. 25-26	Washington University Invitational	
Feb. 2	Principia	
Feb. 14-16	Midwest Championships - NCAA Division II Nationals	

## SOCCER

The soccer teams have struggled this fall at UMR, as the men's team has been forced to deal with a number of injuries and the women's team with small numbers.

Bob Boucher's men's team has been plagued with injuries to several key players, and the result has been a record of 8-9-1. The Miners struggled against good competition early in the year, but did pick up a late season win over highly touted Southern Indiana. Pat Snider leads the team in scoring with eight goals and two assists.

The Lady Miners have been plagued with a lack of depth, as they have played with only 12 players. They went into the last week of October still searching for their first win of the season. Senior Lisa Burwell leads the team in scoring, as she has scored half of the Lady Miner's four goals.

## CROSS COUNTRY

The men's cross country team finished last in the MIAA Championships held in Cape Girardeau on Oct. 20. Senior John Conrad has been the team's top runner throughout the season, and ran his best time in the Loyola Lakefront Invitational.

The women did not field a complete team for a meet all season. Jeanne Jackson was their top runner, as she finished first in one race and had her best time of the year at the Miner Invitational in September.

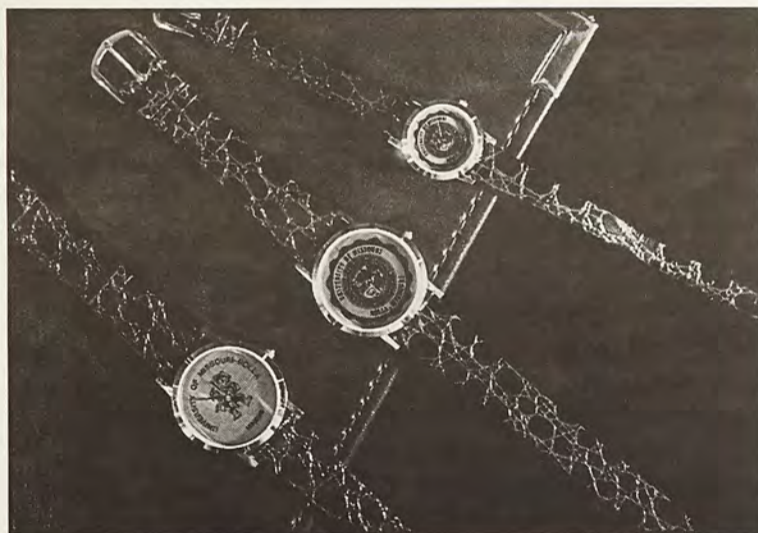
## ALLGOOD ENDOWMENT SCHOLARSHIP FUND WILL HELP TRACK ATHLETES

The "Dewey Allgood Endowment Scholarship Fund" received a boost as a result of contributions made on occasion of the banquet and roast held in his honor on Sept. 1 in Rolla.

Contributions to the fund totaled \$9,068 as of November. The earnings from the endowment will be used to award track scholarships to deserving athletes.

Allgood retired after 40 years of service to the University, and at one time or another he has served as head football, basketball, golf, track and cross country coach. In addition, he has been the school's intramural director for 32 years.

Contributions to the Allgood fund can still be made to the MSM-UMR Alumni Association, 101 Harris Hall, Rolla, Missouri 65401-0249.



Help the Lady Miners in their quest for excellence while obtaining a fine timepiece!

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

#### FORMS OF PAYMENT

- CASH
- CHECK  
(Made payable to UMR WOMEN'S BASKETBALL)
- MASTERCARD or VISA (Please circle)  
Card # \_\_\_\_\_  
Expiration Date \_\_\_\_\_
- Signature \_\_\_\_\_

PLEASE ALLOW FOUR TO SIX WEEKS FOR DELIVERY!

Order Quantity	Description	Price	Shipping & Handling	Total Price	Amount Paid
	Men's Thin Water Resistant with UNIVERSITY EMBLEM	\$33.00	\$2.00 each	\$35.00	
	Men's Thin Water Resistant with JOE MINER LOGO	\$33.00	\$2.00 each	\$35.00	
	Women's Thin Water Resistant with UNIVERSITY EMBLEM	\$33.00	\$2.00 each	\$35.00	
	TOTAL ORDERED			TOTAL	

Mail form to: Dept. of Physical Education, Gale Bullman Multi-Purpose Building, UMR, Rolla, MO 65401-0249

## SECTION NEWS

### AEG ALUMNI RECEPTION, PITTSBURGH



A group of MSM-UMR alumni met at the Pittsburgh Hilton in Pittsburgh, Penn. on October 3, 1990. The reception was held in conjunction with the Association of Engineering Geologists annual meeting. Hosts from the UMR campus were Professors John Rockaway and Dale Elifrits.

Alumni from the Pittsburgh area were: Tom Finley, '39; Elmer Trautwein, '40; Jim Carr, '40; Bob Perry, '49; David Glenn,

'51; Robert Custer, '56; Rick Rueter, '68; Jeff Young, '84, and Janice Wilkerson, '86.

Other alumni attending the AEG meeting and the reception were: Henry Fisher, '68; Steve Garrison, '73, '51; Greg Hemper; Jerry Higgins, '75, '80; Jason Ovanic, '87, '90; Peter Price, '77; Derek K. Rhodes, '89; Joe A. Soughers, '83; Bob Speck, '74, '79; Al Van Besien, '69, '85.

Participants in the AEG convention plus students and other faculty members from UMR brought the total attendance to 30 for the reception. Door prizes were awarded, and the alumni look forward to more meetings in the greater Pittsburgh area. Watch for the next notice.

—Bob Perry, '49

### AMC ALUMNI RECEPTION, NEW ORLEANS

A number of alumni and friends gathered at the Fairmont Hotel in New Orleans on Monday, September 24, for an alumni reception in connection with the American Mining Congress. This was the first opportunity for many of them to meet and visit with John Wilson, the new mining department chairman. Those in attendance included: Don and Nancy Brackhahn; Thomas Eyerhann, '72; Cliff, '75, and JoAnn McCartney; Rich McGee, '78; Dick Phelps, '68; Dale and Betty St. Gemme; Don Warner; Paul R. Whetsell, '61; and John W. Wilson.

### ARK-LA-TEX SECTION

Our fall meeting found sixteen alumni and friends at John and Eilyeen Livingston's lovely home on October 27, 1990. No pony rides, steak dinner, or guest speaker but everyone had a fine meal and a good time. John and Eilyeen provided the ham and brisket and the others brought covered dishes to go with it. The subject of club officers was discussed briefly but no volunteers stepped forward so officers remain the same. President John Moscarì appointed a scholarship committee consisting of Basil Compton, Chairman; John Livingston, Frank Zvanut, (in absentia) and Gerald Roberts (alternate). The Annual Section Contest was discussed but members felt that having such a small active membership might handicap our chances of winning.

We would like to encourage our younger alums to join us! We know cost is a consideration especially when you add up meal fees, baby-sitter fees, and travel costs, but this meeting for which John absorbed the major cost himself, tends to prove that cost is not a major consideration. We hope a summer picnic will be an attractive solution. Younger alums - we need you!

Our next meeting was rescheduled to February 3, 1991, in Shreveport. Those present thought the weather would be better on that date than it would in January. Those in attendance at this meeting were: Nelson and Dardenelle Brown; Phil, '48, and Ardella Browning; Walter, '34, and Helen Bruening; Elmond L. Claridge, '39; John, '39, and Eilyeen Livingston (hosts); John, '51, and Loretta Moscarì; Louise Patton; and Gerald, '28, and Leona Roberts.

—Phil Browning, '48



Front row - Susan McCallister, Dan Pickering, Cheryl Koederitz, Sandy Nugent-Palisch, Mark Eck, Craig Eck, Barry Shelden, Mark Drumm.

Back row - Terry McCallister, Connor Eck, Mary Eck, John Hentges, Andy Simon, Gerry Suellentrop, John Kurz, Kathy Shelden, Jeff Balmer, Greg Sanders, Terry Palisch, Matt Collins, Lenn Koederitz.

### ALASKA ALUMNI MEETING

The Eighth Annual Unofficial Alaska Alumni Party was held at the estate of Mark Eck overlooking Cook Inlet on August 1, 1990. The weather was cool and dry as it had been for the previous week. Those in attendance were Jeff Balmer, '88; Matt Collins; Mark Drumm, '77; Mark, '80, Mary, Craig, and Connor Eck; John Hentges, '89; Lenn, '68, and Cheryl Koederitz from UMR; John Kurz, '83; Terry and Susan McCallister, '78; Terry, '86, Palisch and Sandy, '86, Nugent-Palisch; Dan Pickering, '88; Greg Sanders, '86; Barry, '81, and Kathy (Dill), '79, Shelden; Andy Simon, '74; and Gerry Suellentrop, '81.

Special thanks to the Ecks for hosting the event, and especially to Mary Eck for her excellent barbecue.

—Mark Eck, '80

## CENTRAL OZARKS SECTION

On Tuesday, September 11, 1990, at 7:30 p.m., a group of 66 alumni and friends met in the cafeteria of the University Center-West on the UMR campus. This was the first meeting of the full section and began with a social hour highlighted by musical selections from the Rolla Town Band Oompah Section. At 8:00 p.m., George Axmacher, '42, called the meeting to order and told the group how the idea for a local section came into being. He then asked the members of the nominating committee to stand and be recognized for their work in putting together a slate of officers for the founding of the section.

Eunice French, '84, then came forward to read the proposed slate of officers: President - Jerry Bayless, '59; President-Elect - Rodney Chaney, '85 and Merrill Stevens, '83; and Secretary - Dixie Finley, '68. Nominations were opened to the floor, and none were made. It was moved and seconded that nominations be closed and members voted their ballots.

George Axmacher introduced Chancellor Martin C. Jischke who talked about the status of the campus and how local alumni can help support UMR. After his talk, Eunice French announced that the new officers would be Jerry Bayless, Merrill Stevens, and Dixie Finley. George Axmacher presented the Alumni Association gavel to Jerry Bayless, who then took over the meeting.

In the business meeting, Jerry announced that UMR license plates are now available, and attending members received a flyer with information on ordering. Jerry also announced that committee sign-up sheets were being passed out, and encouraged membership to sign up as their interests and time allowed.

The next item of business was to select a name for the section. Nominees were Mid-Missouri Section, Central Ozarks Section, MSM Home Section, Rolla Area Section and Central Missouri Section. The two highest ranked choices were Central Ozarks Section and Rolla Area Section, and in a tie-breaker, Central Ozarks Section was the winner.

The group next discussed briefly the types of activities that should be held, and agreed that quarterly meetings were preferred. Type of activities will be left up to the Programs Committee, with the suggestion that they be varied so as to appeal to the most members.

The meeting was adjourned for further socializing.

Attending Founding Members are as follows:

George Axmacher, '42; Eunice French, '84; Lindsay Bagnall, '76; Ernie Gutierrez, '77; C.L. Baldwin, '69; Virginia Heikkinen, '88; Jerry Bayless, '59; Martin Jischke, Jerry Berry, '49; LeCompte Joslin, '34; Al Bolon, '61; Bob Klug, '40; Neil Book, '72; Leon '64 and Helen Kreisler; Philip Borthacyre, '87; Barbra Martin, '88; Don and Nancy Brackhahn, Dennis McGee, '69; Milton Bradley, '65; Don Myers, '61; Linda Bramel, '89; Jack Painter, '50; Glenn '39 and Janet Brand; Gary '60 and Barbara '61 Patterson; Joel Brand, '86; Luke Peterson (student), Sam Bross, '88; Earl '61 and Betty Pietsch, Walter J. '55 and Margaret Casler, Chuck '49 and Agnes Remington, Rodney Chaney, '85; Elmer Roemer, '33; Fred Clauss, '87; Ed Rueff, '40 and a friend, Tom Coffman, Ken Schmid, '79; William Collins, '50; John E. Smith, '51; Kyle Corum (student), Don W. Spencer, '53; Dave Dearth, '68; Merrill Stevens, '88; Waldemar Dressel, '43; Paul Stigall, '62; Bob Eck, '43; Joyce Thomas, '78; Karl Eissinger, '50; Armin Tucker, '40; Dick Elgin, '74; Randy Verkamp, '72; Angela '79 and Roberto Escalera, Ron Warren, '75; Carl '74 and Janet Eyberg, Bob Wolf, '51; James E. Fiscus, '86; and Gillian Worsley, '86.

Not attending but listed as Founding Members are Bill Anderson, '67; Ken Asher, '35; Angie Beechner, '84; John E. '77 and Wendy O. (Scott) '75 Carter; Bob Currie, '84; Dixie Finley, '68; Roy L. Gilkey, '69; Neal Granneman, '61; Elizabeth Hardebeck, '58; Leland Hauth, '60; Tom '57 and Grette '74 Herrick; Roger LaBoube, '70; Bob '37 and Sybil Lange; Rebecca Martin, '90; Gabe '43 and Edith Skitek; and Richard G. Steiner, '47.

## CHICAGO ANNUAL PICNIC

The annual picnic was held at Katherine Legge Park, Hinsdale, Ill. There were fourteen families in attendance. Six couples brought their children.

The day was windy with a cold front entering the area. Despite the dropping temperatures, everyone enjoyed a catered picnic of chicken and beef.

The next general meeting will be March 15, 1991, at the St. Patrick's dinner. New officers will be elected. We anticipate a record number for this traditional gathering.

- Richard Wieker, '59

## DALLAS SECTION

Thirty-nine alumni and guests welcomed Chancellor Martin Jischke and Vice Chancellor Tom Coffman to a section meeting at the home of Bob, '52, and Marge Schaefer on Tuesday, October 23, 1990. Don Eggleston, '36, was the earliest graduate from MSM in attendance and Mindy Woodill, '84, was the most recent graduate from UMR. Chancellor Jischke brought the group up-to-date on plans and activities at the university.

Those in attendance included: Ed, '50, and Barbara Barsachs; Bob, '42, and Cay Brackbill; Glenn W. Brand, '83; Henry R. Bredenkamp, Jr., '86; Richard Browne, '68; Frederick J. Campen, '54; Tom Coffman; Charles P. Conrad, '71, '76; Mike Cook, '71; Dan, '49, and Mary Lou DeBolt; Don, '36, and Eleanor Eggleston; Dennis, '76, and Virginia Gleason; Joe, '54, and Edie Gray; Jim, '70, and Nancy Horne; Martin Jischke; Byron, '52, and Mary Ann Keil; Charles, '65, and Marcelle Marlow; Mike Moline, '82; Jim Mulligan, '72; Harry B. O'Dell, '50, and guest; Gene, '62, and Judy Rand; Bob, '52, and Margaret Schaefer; Jeff Stauffer, '73; Tommie, '64, and Pat Wilson; Tony Steele, '75; and Mindy Woodill, '84.

## ASM ALUMNI RECEPTION, DETROIT

Ben Winter, '80, hosted the alumni reception at the American Society of Metallurgists conference October 9 in the Detroit Westin Hotel. Tom Coffman, vice chancellor for university advancement, brought news from campus to the attendees. Those present for the reception included: Alex Aning, '82; James Cotton, '83; Tom Coffman; John Donnelly, '70; Joe Frimpong, '88; Herb Kalish, '43; Ben, '80, and Brenda Winter.



*Jerry Bayless, '59 (second from left), is presented a gavel as founding president of the recently established Central Ozarks Alumni Section. Presenting the gavel to Bayless is George Axmacher, '42, chairman of the nominating committee of the section. Also taking part are Merrill Stevens, '83 (right), president-elect of the section and Dixie Finley, '68 (left), secretary of the section.*



## HOUSTON SECTION

The Houston Section provided a number of special activities for guests Chancellor Martin & Patty Jischke and Vice Chancellor Tom Coffman, on September 21-22, 1990. These guests were provided a special VIP tour of the NASA space shuttle site with the assistance of alumnus astronaut Tom Akers, '73. The Rolla guests were then taken to a dinner at the Houston Petroleum Club to meet with forty members of the Order of Golden Shillelagh and the Century Club.

Saturday brought a round of golf for Jischke & Coffman with Ron Tappmeyer, '47, and Bob Linville, '62. Dan, '73, and Delores, '75, Hinkle welcomed 70 alumni and friends to Tanglewood Terrace at the top of the Marathon Tower for a dinner on Saturday night to hear Chancellor Jischke speak about the campus and future plans for it. Jim Paul, '43, master of ceremonies, presented Houston Section St. Pat's shirts to the Jischkes and Tom Coffman.

Those in attendance included: S. Clark, '65, and Earleen Allen; Wayne, '58, and Betty Andreas; Nancy Arnold, '79; Les Birbeck, '50; Kathleen

Burch, '88; Jim, '48, and Betty Chaney; Jim, '78, and Jeannette Colliton; Joe, '69, and Sue Cowen; Joseph Farrow, '87; Ron, '51, and Nora Ferry; Roger Fleming, '73; Charles Frey, '57; Adil, '67, and Arni Godiwalla; Alan, '78, and Colleen Green; Kevin Hagan, '80; Dan, '73, and Delores, '75, Hinkle; P. E., '70, and Arni Ilavia; Martin and Patty Jischke; David, '71, and Charlene Jones; Curt Killinger, '73; Jerry, '53, and Lorraine LaBouff; Kirk Lawson, '85; Rob, '85, and Lauren Laird; Shelly Leavitt, '81; Bob Linville, '62; Terry Michimer, '75; David Nadel, '81; Robin, '85, and Carlos Nava; Richard, '73, and Dianne Pankau; Jim, '43, and Loulie Paul; Gary, '65, and Janie Pointer; Rick Reinesch, '83; Michael Schoonover, '89; Teresa



Sears, '89; James Sidwell, '62; Carl, '78, and Kathleen Sisk; Stephen, '75, and Rebecca Starke; Leon, '69, and Linda Virtue; Art, '49, and Pat Weber; Howard, '53, and Wanda Yorston; William Zogg, '71.

## SPE ALUMNI RECEPTION

A large group of alumni attended a special reception at the Society of Petroleum Engineers Annual Conference on Tuesday, September 25, at the New Orleans Hilton, Riverside. Paul Whetsel, '61, New Orleans section president and Lenn Koederitz, faculty representative, served as co-hosts of the event. Others from the campus present included Don Warner, Dean of Mines & Metallurgy; Daopu Numbere, faculty; Lloyd Heinze, faculty; students: David Krueger, Keith St. Gemme & Beth Brockman; Alumni Director Don Brackhahn and his spouse, Nancy; Development Director Dale St. Gemme and his wife, Betty.

A number of alumni traveled great distances to come to the conference, but it appears that the greatest distance travelled was by Gary Achenbach, London, England, followed closely by the trio from Anchorage, Alaska - Mark Drumm, '77, Mark Eck, '80, (president of the Anchorage section), and Terry Palisch, '86.

Among those in attendance were: Gary Achenbach, '63; Bradley Aman, '79; Marion and Carolyn Arnold (ex-faculty); Bruce, '84, and Barbara Augustine; Bill Beatty, '51; Don and Nancy Brackhahn; Beth Brockman, '91; Christopher, '83, and Mrs. Butta; Dane Cantwell, '85; Bill DeGraeve, '79; Brenda (Horak), '82, and Rene' Diaz; Mark Drumm, '77; Dennis Dutton, '76; Mark Eck, '80; Doug Finley, '83; Maryann, '79, and Doug, '79, Fuchs; Dwight D. Fulton, '80, '82; Don Greenwalt, '57; Marc Gruenfelder, '80; James, '57, and Carolyn Hefley; Lloyd Heinze, '86; Mark Herzog, '74; Susan Holley, '81; Claire, '85, and Steve, '85, Homoky; Matt Honarpour, '70; Jim

Honefenger, '72; Jeffrey W. Knight, '84, '87; Lenn, '68, '69, '70, and Cheryl Koederitz; David Krueger, '90; Rick, '75, and Shirley LaFollette; Susan Leach, '80; Mark Lochmann, '75; Bernie Lucas, '75; Dennis McDaniel, '83; Mike, '76, and Ann McKee; Daopu Numbere (faculty); Terry Palisch, '86; Gary Pariani, '74; Hans, '64, '65, and Kashmira Patel; Jim Paul, '43; Sean Pine, '77; Gary, '77, and Miriana Roebke; Bob Rundle, '79; Dale and Betty St. Gemme; Keith St. Gemme, '91;

Dan Scott, '70; Gary Smallwood, '75; Marilyn M. Smelcer, '80; Jeff, '79, and Ann, '79, Smith; Merle, '69, and Barb Steckel; Sam Stone, '82; Wally, '52, and Lorraine Stopkey; James, '61, and Suzanne Sutherland; Bob Swain, '81; Lou, '61, and Jan Toepfer; Herman Vacca, '60; Judson Vandertoll, '86; Lee Brian, '65, and Mrs. Van Ramshorst; Don Warner (faculty); Mark Warner, '85; T. J. Westehaus III, '85; Paul R. Whetsell, '61; Kenneth B. Wisdom, '57; and Leslie D. Witt, '79, '88.



## UPCOMING SECTION MEETINGS AND EVENTS AS OF NOVEMBER 30, 1990

### 1990

Dec. 1 Alumni Admissions Event, Chicago, IL Bob Saxer '61, 708-584-0548  
Dec. 15 Commencement, UMR Alumni Office, 314-341-4145

### 1991

Jan. 18 Houston Section Meeting Jim Paul, '43, 713-464-1358  
Jan. 29 Legislative Recognition Day, Jeff City, MO Alumni Office, 314-341-4145  
Feb. 3 Ark-La-Tex Section Meeting Phil Browning '48, 318-697-5248  
Feb. 19 Met. Society of America, New Orleans, LA Alumni Office, 314-341-4145  
Feb. 23 African-American Committee Meeting Alumni Office, 314-341-4145  
Feb. 25 Admissions Dinner, Springfield, MO Joe Wilson '86, 417-866-3659  
Feb. 26 SME-AIME Reception, Denver, CO Alumni Office, 314-341-4145  
Mar. 5 Alumni Admissions Dinner, Kansas City, MO Chris Wilson '73, 816-524-7151  
Mar. 11 Alumni Admissions Dinner, Jefferson City, MO Lynn Stichnote, 314-341-4164  
Mar. 14-15-16 Campus St. Pat's Celebration Alumni Office, 314-341-4145  
Mar. 15 Chicago Section St. Pat's Party Richard Wieker '59, 312-847-4505  
Mar. 15 Kansas City Section St. Pat's Party Chris Wilson '73, 816-524-7151  
Mar. 19\* Alumni Admissions Dinner, Cape Girardeau, MO Lynn Stichnote, 314-341-4164  
Mar. 22 Central Ozarks Section, Viburnum or Salem Jerry Bayless, 314-341-4151  
Mar. 25 Alumni Admissions Dinner, St. Louis, MO Cal Curdt '74, 314-256-7972  
Mar. 26 Alumni Admissions Dinner, Rolla, MO Jerry Bayless, 314-341-4151  
Apr. 9 Alumni Admissions Dinner, Collinsville, IL Lynn Stichnote, 314-341-4164  
Apr. 19-20 Alumni Board Meeting, Rolla, MO Alumni Office, 314-341-4145  
Apr. 27 Spring Open House, Rolla, MO Alumni Office, 314-341-4145  
May 9-11 50th Anniversary Reunion, Rolla, MO Alumni Office, 314-341-4145  
May 11 Commencement, Rolla, MO Alumni Office, 314-341-4145  
Jun. 15 Central Ozarks Section Jerry Bayless, 314-341-4151  
Sep. 13 Central Ozarks Section Jerry Bayless, 314-341-4151  
Oct. 4-5 Homecoming, Rolla, MO Alumni Office, 314-341-4145  
Nov. 2 Central Ozarks Section Jerry Bayless, 314-341-4151  
Nov. 2 Parents Day Alumni Office, 314-341-4145

\*tentative

## SOUTHERN CALIFORNIA SECTION, AUGUST 11

George and Miriam Nations hosted at their home in Apple Valley, thirty-six alumni, family and friends for a pool party and alumni meeting. The reception tent, decorations, outstanding food and door prizes given by Miriam to attendees helped make this event a great success.

Don and Nancy Brackhahn were in attendance from Rolla. Don showed video tapes of the advanced technology classroom and the tape used for recruiting students by admissions.

Those attending included: Jeffery, '83, and Leslie, '85, (Drum) Bacon; Charles, '51, and Liz Beckman; Jim Berndt, '84; Jeff, '75, and Sharon Bopp; Scott, '74, and Alice Boyd and family; Don and Nancy Brackhahn; Jim, '44, and Theda Gostin; Mike, '70, and Mary McGath; Don, '68, and Linda Moyer and family; George, '36, and Miriam Nations (hosts); Reg, '68, and Diktra Nations and children; Joan Snider, '83, and Merritt Helvenston; Fred, '48, and Marilyn Todd; John, '43, and Phyllis Wilms.

## LINCOLNLAND SECTION, SEPTEMBER 25

Twenty-two alumni and spouses enjoyed a dinner of broiled halibut or prime rib at Davey Byrnes Restaurant in Springfield, Ill. Dr. Walt Gajda, chairman of the electrical engineering department, spoke to the alumni about the quality education being offered at UMR as well as the present and the future of the electrical engineering department.

Those attending included: Rich, '69, and Carolyn Berning; Rich, '59, and Nancy Canady; Tom, '69, and Joanne Feger; Walt Gajda (faculty); Larry Lewis, '73; Ed, '69, and Anne Midden; Rich, '64, and Sandy Mochel; Harold, '59, and Mary Olsen; Jerry, '70, and Mary Parsons; Kay, '87, and Mark, '90, Scholtzhauer; Vince, '85, and Kathy Smith; Kim A. Sweeney, '90; Larry Unnerstall, '79; and Bob Uthoff, '52.



# ADMISSIONS AMBASSADORS ACTIVITY REPORT

The Admissions Ambassadors program has undergone both expansion and increased activity during my first year as coordinator. The number of ambassadors has increased from 150 to 183 and important areas such as southwestern and south-central Missouri, southwestern Illinois, and northern Arkansas have seen increases in ambassadors in response to recruitment mailings. The high level of participation and enthusiasm by the ambassadors continues to be a wonderful source of inspiration as well as the moving force for serving ever-increasing numbers of prospective students. I would like to thank each and every ambassador for their time spent at college fairs, high school visits, recruiting events, talking with students on the telephone and all the other varied ways they reach out to students and publicize the University of Missouri-Rolla. The ambassador program has many special activities and each activity will be discussed briefly.

The college fair is an event sponsored by a high school or a number of high schools to which many colleges are invited. The college fair is a very effective recruiting tool because the alumnus can speak with many students and parents in a relatively short time. The UMR admissions staff cannot cover most out-of-state fairs so the ambassador becomes an important link with students outside the state of Missouri, and at Missouri schools which cannot fit into the travel schedule of the admissions office. Three important improvements were made in the College Fair representation this year. First, in response to numerous requests by the ambassadors, the admissions office appropriated money to provide tablecovers and identifying posters for each fair which allowed ambassadors to present a much more professional image. Second, a computer tracking system is in place to allow a full report on how many of the students contacted through these fairs apply to UMR and how many eventually enroll. A special code has been assigned to each fair so we can track progress from year to year. The best improvement to the program, however, was the 44% increase in the number of fairs attended. In the fall of 1989, ambassadors attended 25 college fairs; in the fall of 1990 the ambassadors will attend 36. As my methods of communication and follow-up continue to improve, and the geographical area the ambassadors cover expands, that number should go even higher. My special thanks to those ambassadors who pulled double or triple fair duty over the course of the fall and also to those alumni who obtained invitations for the university to fairs in their locale.

Prospective student calling is fairly self-explanatory: a list of students who have applied and been accepted for the following school year is provided to me each month. I then assign as many of the individual students as possible to ambassadors who call the student and talk with him or her about UMR. This provides a personal touch to recruiting, and also gives the student the opportunity to ask questions which are not covered in the literature the student receives. If an ambassador cannot answer a particular question, it is forwarded to my office and we contact the student directly. Improvements to this program include a computer tracking system to provide reports on how effective the calling is, and also an increase in the number of students to be contacted this year due to our increased number of ambassadors. The McDonnell Douglas student recruitment committee is especially helpful with this program, often matching alumni with students who attended the same high school. Special thanks are due to those alumni who make long distance calls to reach a particular student.

Student receptions are held in other states to provide direct information to prospective students and their parents. This program had been confined to the Chicago area in the past but this fall it was expanded to include Tulsa, Okla. and Paducah, Ky. Tentative plans are also underway for a similar event in Houston, Tex. Ambassadors and other alumni are crucial to these events as they provide personal information on their careers as well as insight about their experiences while attending MSM/UMR. The Tulsa reception, which was held at Williams Telecommunications' facilities, was a fine success and the initial student responses from the St. Charles, Ill. and Paducah, Ky. receptions indicate a high level of interest.

Early spring of 1991 will mean time for Chancellor's Admissions Banquets which are again planned for seven locations. The dates and times are listed to the right. Again, alumni participation provides that personal touch with students and parents which is so important. Mark your calendar now to attend the banquet in your area.

A new offering for this year is the Alumni Section Scholarship for non-resident students. All sections which meet eligibility requirements can appoint a committee to choose a local student to receive a waiver of non-resident tuition

to UMR. For further information on this innovative program, contact the president of your local MSM-UMR alumni section.

Personal referrals and requests for information on the Alumni Sons and Daughters grant (a waiver of non-resident tuition for qualified children of alumni living outside of Missouri) continue to be steady. Like the other programs, a tracking system has been put in place to provide ambassadors with feedback on the results of these efforts.

The ambassador program is an excellent opportunity for alumni to help their alma mater, and also provide an important service to local high school students. The amount of time spent on the program can vary, but it averages about 12-15 hours per year, depending on your level of activity. If you are interested in participating, please contact Lynn Stichnote, 105 Parker Hall, Rolla, MO 65401 or call (314)341-4904.

— by Lynn Stichnote, Coordinator,  
Alumni/Admission Activities

<i>Alumni Ambassadors Meetings</i>	
<i>Monday, February 25, 6:00 p.m.</i>	<i>Springfield, MO</i>
<i>Tuesday, March 5, 6:30 p.m.</i>	<i>Kansas City, MO</i>
<i>Tuesday, March 12, 6:00 p.m.</i>	<i>Jefferson City, MO</i>
<i>Tuesday, March 19, 6:30</i>	<i>Cape Girardeau, MO</i>
<i>Monday, March 25, 6:00 p.m.</i>	<i>St. Louis, MO</i>
<i>Tuesday, March 26, 6:00 p.m.</i>	<i>Rolla, MO</i>
<i>Tuesday, April 9, 6:00 p.m.</i>	<i>Collinsville, IL</i>

# UMR LICENSE PLATES AVAILABLE NOW

The MSM-UMR Alumni Association is proud to announce that you are now able to show your pride in MSM-UMR and help support your alma mater at the same time, by displaying the UMR license plate! Our design, shown at right, incorporates the tradition of Joe Miner with our fine reputation as "Missouri's Technological University". When you make your \$25 donation to UMR, designated for the license plate scholarship fund, you will be eligible to receive a form that you can take to the license bureau to apply for the special UMR plates. The cost from the license bureau will be \$15 for personalized plates plus your regular license fees. UMR plates will expire in October of each year, and will be renewable each year with a \$25 donation to UMR and payment of applicable license fees.

Any Missouri motorist may obtain a UMR license plate, whether they are alumni, faculty, staff, students or friends. You'll be able to select the letters or numbers you want on your plate, following the same rules as the current personalized plate program. You may use up to five letters or numbers, or four and a dash. (Some suggestions: 4-MSM, MINER, 4-UMR, ROLLA.)

We must receive 450 requests for plates before we can begin issuing them, but that should be no problem with all the spirited Miners in Missouri!

Show your pride - be the first to have your UMR license plate!

**HURRY--GET YOUR ORDER IN BY DECEMBER 31!**



## ORDER FORM FOR UMR LICENSE PLATES

Yes, I want to display the UMR license plate!

Enclosed is my check for \$25 - please send my license plate authorization form to:

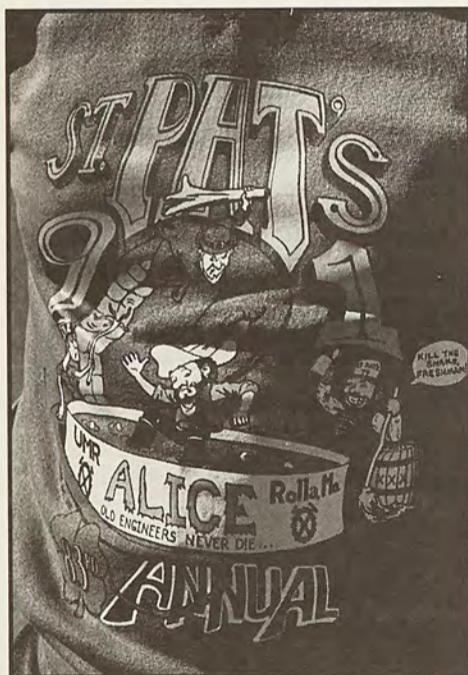
Name: \_\_\_\_\_ Class Year: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Home/Business Phone: \_\_\_\_\_

Mail this form with your check payable to "University of Missouri-Rolla" to the Alumni Office, 101 Harris Hall, UMR, Rolla, MO 65401



## St. Pat's Green...Christmas Gifts for the Entire Family

Christmas is just around the corner and St. Pat's Green makes a perfect gift for that person who has everything. Or if you just want to beat St. Pat's rush, order your St. Pat's Green today. 1991 Green items include:

Green Sweatshirts (S, M,L, & XL)	\$15	St. Pat Garter	\$1
Green Sweatpants (S,M,L)	\$15	St. Pat Button	\$1
Child's Sweatshirt (S,M)	\$12	*Hats	\$7
Clear Mug	\$6	*Huggers	\$3
Clear shot glasses	\$3	*not available until spring semester	

Orders under \$10, please include \$2.25 for postage. More than \$10, please include \$3. Remember that after St. Pat's there is no Green left and we sometimes run out of certain items early, **so buy your Green today!**

Send your order to St. Pat's Board,  
c/o Eric Boyer  
1107 State  
Rolla, MO 65401

# ALUMNI NOTES

## NOTICE

Due to space restrictions, items submitted for the Alumni Notes section of the *MSM Alumnus* are subject to editing. The essence of the information preserved in the item will be maintained.

The home addresses of alumni will be included in the Alumni Notes section only if the alumnus submitting the item specifically requests that it be included. Addresses of alumni will be found in the *Alumni Directory* which will be sent to Association Donors in December of this year.

Incidentally, the records and subsequently available information are only as accurate as those supplied by you, so please ensure that what you provide the Alumni Association is up to date and accurate.

Remember that all suggestions for improvements in the publication are welcome.

## 1922

**Albert Louis Ackers** died Aug. 19, 1990. Al graduated from MSM with a B.S. degree in mining engineering and was retired from Pan American Petroleum Co. While at MSM, he was a member of the Grubstakers, Sigma Gamma Epsilon, A.A.E. and the Missouri Mining and Metallurgical Association. His spouse, Irene, lives in Staunton, Ill.

**Ernest Sterling Wheeler** died in early March of this year in Pittsburg, Pa. At MSM Ernest was a Grubstaker, a member of Tau Beta Pi, Theta Tau, Phi Kappa Phi, editor of the *Miner* in 1921, on the Student Council, and a member of the Missouri Mining and Metallurgical Association. He received B.S. ('22) and M.S. ('23) degrees in metallurgical engineering. After a long career he retired from AMAX in the late 1970s.

## 1923

**Muir L. Frey**, B.S. and M.S. metallurgical engineering, died Sept. 9, 1990, at the age of 90. While attending MSM he was a Prospector, member of Tau Beta Pi, Phi Kappa Phi, Theta Tau, member of the Mining and Metallurgy Association and on the *Miner* Board. He was retired and residing in Leesburg, Fla.

The alumni association has been notified that **William P. Gatts** is deceased. Bill had an extensive career in the chemical engineering field subsequent to graduation from MSM in chemical engineering. At MSM, he was a member of the Lambda Chi Alpha social fraternity, Theta Tau, the Square and Compass, Diphenyl Dozen, local secretary of A.C.E. and the American Chemical Society.

## 1926

**Harry C. Birchard** writes: "All is fine with us here and I am still enjoying Florida. It has been 64 years since I was there (Rolla). I will be 86 in October." Harry, who is retired from the H.F. Campbell Co., and his wife, Luella, live in Brandenton, Fla.

## 1930

**Thomas James Dover**, B.S. civil engineering, died on Jan. 13, 1990 in Lakewood, Colo. At MSM Thomas was a member of Lambda Chi Alpha social fraternity, Satyrs, Theta Tau, the "M" Club (football), was vice president of his sophomore class, and was a second lieutenant in R.O.T.C. He was retired at the time of his death and resided in Dillon, Colo.

## 1932

**Stuart L. Davis** writes: "Spent seven weeks at Eagle Head, Nova Scotia performing maintenance on ocean front home." Stuart is a retired U.S. Air Force colonel. He and Mary live in Cocoa Beach, Fla.

**Russell H. Wiethop** writes: "On April 23, 1990, Lt. Gen. H.J. Hatch, chief of the U.S.

Army Corps of Engineers, presented me the Silver Order of the de Fleury medal on behalf of the Engineer Regimental Association. The award was made 'for his inspirational leadership to the U.S. Army Corps of Engineers'. This is quite an honor - especially after being retired for more than 22 years." Russell and Helen (Peg) live in Omaha, Neb. He is a retired civil engineer.

## 1933

**Gilbert L. Campbell**, who was head librarian at MSM from 1939 until 1946, writes: "My wife, Lottie, died in April 1989. She had been an editor of Filter Press—a small book publisher" Gilbert makes his home in Palmer Lake, Colo. and is president of Filter Press.

**Alfred H. Hesse** writes: "Have acquired a great granddaughter. A decompressive lumbar laminectomy and an angio-plasty (balloon procedure) on the right leg and cardiac arteries have gotten me back on the golf course again. Really feel great. "He is a self-employed metallurgical engineer in La Grange, Ill., where the Hesses live.

**Henry S. Hickman** writes: "I soon will be retired 17 years and my wife and I are still

enjoying fairly good health." Henry and Imelda live in Jefferson City, Mo.

**William H. Lenz**, Los Alamos, N.M., writes: "My wife, Ethel, and I are doing well. Our June 55th wedding anniversary was spent with family at Zion National Park. We're active in AARP. My main hobbies are tennis, gardening, the piano and a little photography. I hope to reach my Rolla 60th and be there."

## 1934

**John Benard**, Hightstown, N.J., writes: "Enjoy good health and retirement. Keep active mentally and physically. Would like more news from the '34 Class."

**O. Merrell Duncan** writes: "We enjoyed the past two winters in Florida at 18812 Gulf Blvd., Indian Shores, FL 34635." Merrell is retired from Farm Bureau Refinery. He and Gladys make their home in Mt. Vernon, Ind.

**John H. McKinley** writes: "Favorite sports: Golf, travel, eating (in that order)!" John and Mary live in Tucson, Ariz. He is retired from the University of Chicago.

**Thomas J. Stewart** writes: "Enjoying golf-



*Class of 1939 and Before, First Row: George Borgstede, Anita Borgstede, Gerald Roberts, Leona Roberts, Florence Luder, Walter Luder, Pete Mattei, Alice Mattei, Joe Mooney, Rudy Knoll. Second Row: Gladys Duncan, Alfred Hesse, Emilie Hesse, John Pollak, Dorothy Pollak, Frank Appleyard, Maxine Sheppard, John Sheppard, Janet Barclay, Hugh Barclay. Third Row: O.M. Duncan, Elmer Roemer, Arthur McClanahan, Bonnie McClanahan, Agnes Finley, Tom Finley, Joe Howerton, Clarellen Howerton, Katherine Zvanut, Frank Zvanut, Elmer Nickel. Fourth Row: Gill Montgomery, Bernie Kamper, Warren Danforth, Katherine Danforth, Don Dutton, Ruth Dutton, Joel Loveridge, Audrey Rayburn, G.R. Throgmorton. Fifth Row: Ollie Kamper, Cecil Robertson, Willis Robertson, Herman Pfeifer, Helen Pfeifer, Wilma Regenhardt, Tiny Regenhardt.*



*Class of 1940, First Row: Al Farry, Livie Farry, Eleanor Dowling, Norman Tucker, Armin Tucker. Second Row: Roy Perry, Connie Klug, Paul Dowling, Maxine Fort, George Fort, Russ Gund. Third Row: Mabel Rueff, Ed Rueff, Bob Klug, DeWilton Timberman, Lois Timberman, Dorothy Trautwein, Elmer Trautwein, Richard Burnett.*

ing and traveling. That's the way to have fun in retirement. Visited the Midwest in May and June but couldn't fit in a visit to Rolla. I'll try again next year." He is retired from Pfizer and lives, with Joan, in Titusville, Fla.

**Robert Clark Weigel** died June 22, 1990 in Walnut Creek, Calif. after a brief illness. Bob was an executive of the Mexico Refractories Co. and Kaiser Refractories in Mexico, Mo., for 35 years. He had worked in sales, engineering, research and manufacturing capacities during the nearly four decades in the refractory industry. His wife, Margo, died in June of 1988. At MSM, Bob was a member of Pi Kappa Alpha social fraternity, on the track and swimming team, a member of the Miner staff, the MSM Glee Club, and the Officers Club.

### 1935

**Warren B. Danforth** writes: "From May through October I live with my wife, Katherine, at our summer home at 816 Seventh Street, Oakmont, PA 15139. The other six months we are at our winter home at 1301 Polk City Road, Ridge Manor Mobile Park, Box 92, Haines City, FL 33844." Warren retired in 1975.

**W. Gail Twyman**, a retired St. Louis port administrator and former business executive, died Sept. 6, 1990. He graduated from

MSM with a B.S. degree in ceramic engineering. He was a member of the Sigma Nu social fraternity (commander '32-'34), member of the Glee Club, an ROTC Cadet Corporal, an alternate to the Student Council and corresponding secretary of the Orton Society. In addition to port administrator, he was executive secretary to the St. Louis Port Development Commission and, in the 1970's, was president of Zero Manufacturing Co. of Washington, Mo. He retired in 1981.

### 1936

**Robert W. Simmons** writes: "I retired on five acres of waterfront on the eastern shore of Chesapeake Bay. Enjoying the tranquility of county living." Robert, a retired dentist, and Jane live in Wittman, Md.

### 1937

**Walter F. Breuer** writes: "I've been retired from the Corps of Engineers 16 years. Enjoy California weather but wish it would rain once in awhile." Walt and Hazel live in Port Hueneme, Calif.

### 1938

**Allen D. Bliss** writes: "I have recovered from a second multiple coronary by-pass surgery. Have been playing a lot of golf. Hope to attend Homecoming in 1993, my 55th." Allen and Sue live in Oceanside, Calif.

**Joseph W. Howerton** writes: "Looking forward to seeing you at Homecoming in October 1990." He and Clarellen live in San Diego, Calif.

### 1939

**I. James Ulak** writes: "I put my Florida address on the (gift) card in hope of getting an invitation to Central Florida meetings. We did two years ago. Somehow we were missed in 1990." The Florida address for James and Wilma Jean for the months of January, February and March is Box 5320 SLR, 6 Queen of Water, Lake Wales, FL 33853. James and Wilma Jean make their permanent home in Springfield, Ill. He is retired.

### 1940

**Guy Brown Jr.** writes: "Our 50th anniversary of graduation and wedding anniversary were celebrated in fine style thanks to the Alumni Association. I have just been elected as a councilman for the City of Lakeway." He and Mary Lucille live in Austin, Texas.

**Edgar S. Miller** writes: "Peg and I had a fabulous time at my 50th graduation in May. Looking forward to our cruise through the Straights of Magellan and around the 'Horn' in early December." Edgar is retired and he and Margaret live on Jekyll Island, Ga.

**Everett W. Sharp** writes: "We spend part of the year at another home in Wheelersburg, Ohio 45694, P.O. Box 399, telephone 614-574-8497. No mail received at house 7415 Canterbury Road. Still working part-time for BMI-Refractories division of Adience Inc." Ev and Callie live in Ft. Myers, Fla.

**Herbert D. Sturges** writes: "I was sorry to miss the 40's reunion but graduation of my granddaughter from college took priority. Our eight children and 26 grandchildren give us an excuse to do a lot of traveling." Herb and Marie make their home in Destin, Fla.

## 1941

### GOLDEN REUNION MAY 9-11

**Seymour J. Beers** writes: "I am planning to come to my 50th anniversary in 1991." S.J. is retired from Industrial Minerals. He and Sophia live in Rock Hill, S.C.

## 1942

The brother of **Eugene Lee Helton** has informed the association that Eugene died in 1989. He had been a member of the Engineers Club and was on the honor list in '41-'42 while attending MSM. He received a B.S. degree in mechanical engineering. Eugene was an employee of Caterpillar Tractor Company.

**Samuel A. Kurtz** died June 9, 1990 in Roseville, Calif. according to information contained in a note received from his wife, Martha, 8597 Pendleton Drive, Roseville, CA 95661. At MSM Sam was a member of Lambda Chi Alpha, Blue Key, the Rollamo Board, Advertising Chairman of the St. Pat's Board, A.S.M., President of the Class of '40, on the swimming team, ROTC, the CAA, was St. Pat in '39 and secretary of the Student Council, also in '39. He graduated from MSM with a B.S. in metallurgical engineering and served in the U.S. Navy in World War II. He was employed for many years with insurance companies, land and mining companies and was retired at the time of his death.

**Leslie James Maher** died April 9, 1990. At MSM, Leslie was a member of Triangle social fraternity. He engaged in intramural sports in 1939 and 1940, was an ROTC cadet sergeant and first lieutenant, in civil pilot training and was commissioned a second lieutenant upon graduation with a degree in mechanical engineering. After working for Bemis Bros. Bag Co. for more than 10 years, he moved to Ethyl Corp. in the early 1960s and retired from Ethyl in the late 1980s.

## 1943

**Fred E. Dreste** writes: "Marilyn and I moved in 1989 from Phoenix, Ariz. to 35 Cochise Drive, Sedona, AZ 86336." He is retired from Motorola.

**William H. Flood** writes: "We celebrated the birth of our eighth grandchild (Bradfield Brady) William Flood on May 25, 1990. He is our fifth grandson. Brady, his parents and his grandparents are doing nicely." Bill is

executive officer (associate professor) at the University of Lowell in Lowell, Mass. He and Jeanne live in Acton, Mass.

**Edward E. Gygax** writes: "I retired Jan. 1, 1990. Sold my home, moved back to St. Louis to be near my daughters and friends. It's a perpetual vacation - tennis, swimming, arbitrator for the Better Business Bureau."

**Robert L. Hanna** writes: "Recently visited Fred Dreste, '43, at his new home in Sedona, Ariz." Bob is president of Motorola-Hanmar Corp. in Lafayette, Ind. Bob and Mary live in Battle Ground, Ind.

According to the "SPE Update **James R. Paul** recently signed up his 500th new Society of Petroleum Engineers member. Jim, a Houston-based consultant, is the first SPE member to obtain more than 500 new-member credits. He graduated from MSM with a B.S. degree in petroleum engineering and is retired from Dow Chemical USA. Jim and Lou live in Houston, Texas.

**James Higbie Polhemus** died in February of 1990 in Knoxville, Tenn. according to information from Gilbert L. Campbell, '33. During Jim's college days at MSM, he was vice president of A.I.M.E. in 1942-43, a member of the Engineers Club, and an R.O.T.C. cadet corporal. He graduated with a degree in Mining Engineering. At the time of his death, he was retired from American Zinc Co. of Mascot, Tenn. where he had been mine superintendent. His widow, Beatrice, resides at 2124 Staff Drive, Mascot, TN 37806.

## 1944

**Edwin C. Goetemann** writes: "I retired Oct. 1, 1989, after 35 1/2 years with Specialty Steel Division of Cyclops Corp." Edwin and his wife, Nancy, reside in St. Louis.

**Donald George LePere** died May 1, 1990, at his home in Stone Mountain, Ga. according to information received from **A.S. Ittermann, '44**, of Winston Salem, N.C. Don was a member of Pi Kappa Alpha social fraternity, the "M" Club, A.I.E.E. and was on the football squad while at MSM. He was in the U.S. Navy during World War II and was with Westinghouse where he was superintendent of manufacturing at the time of his retirement in the early 1980s.

**Kenneth W. Schoeneberg, '44, '48**, writes: "Still enjoying retirement from 36 1/2 years of railroading. Have returned to MSM many times—at least once a year." Kenneth is retired from the Association of American Railroads. He and Margaret live in Elgin, Ill.

Gilbert L. Campbell, '33, reports: "**Sandy (Sanford L.) Simons, '44**, is in private practice in Evergreen, Colo."

**Warren W. Helberg** writes: "I retired from Emerson Electric Co., St. Louis, in 1986 and am now a full-time consultant to Emerson's international operations in Seoul, Korea. I have lived and worked in Seoul since 1978. Looking forward to visiting the Rolla campus in the near future. In the meantime will keep the Rolla Building lithograph in a promi-



Class of 1945: Carl Finley, Vernon Kasten, Stacia Kasten.

nent place in my office." (Note: The Rolla Building lithograph Warren refers to is available to all those contributing to the Silver level and above in the Century Club.) The address for Warren and Pok Hui is CPO Box 5537, Seoul, Korea.

**O. Morris Sievert** writes: "I am retired. Fishing, golf and some consulting." O.M. is the retired president of Solar Turbines Inc. of San Diego. The Sieverts live in La Jolla, Calif.

**Glenn L. Stanley Jr.** writes: "I am retired but still doing part-time engineering consulting; not only for enjoyment but also personally believe that retirement can be hazardous to your health. I also enjoy playing in the UMR alumni band once a year." Glenn and June live in Carbondale, Ill.

## 1945

**Robert F. Schmidt** writes: "I've retired as technical director of Colonial Metals Co. and am now serving part time as technical consultant to that firm." Bob and Juliet live in Wrightsville, Pa.

## 1946

**George E. Burke** writes: "I retired March 1, 1990 after 25 years as county engineer for the County of Morris, New Jersey." George and Barbara live in Morristown, N.J.

## 1947

**Anton Leone** died May 10, 1990. At UMR, Anton was a member of the Engineer's Club, the "M" Club, A.S.C.E., and lettered in both football and track. He received a B.S. degree in civil engineering, and was with the Missouri Department of Transportation from which he was retired. His son, John Gilbert Leone, received an B.S. in 1970 and an M.S. in 1971 from UMR in engineering management.

**Keith D. Sheppard** writes: "I retired (from AMR Energy Corp, Dallas), on Dec. 31, 1986. Enjoying golf, tennis, badminton and the new availability of time." He and Jean live in Dallas.

## 1948

**Robert T. Kracht** writes: "I have been retired five years now (from Maxon Corp.). Both children have now finished school and we are in the process of trying to sell our New Jersey home and move to Hilton Head, S.C. Golf, being a car buff and working in the Naval Academy Parents Club have kept me as busy as I want to be." He and Carole live in Basking Ridge, N.J.

**Walter A. Mathews** writes: "I retired from Bussmann Division, Cooper Industries, St. Louis, Mo. in June 1990 after 42 years with that company." Walter lives in St. Louis.

**Albert G. McGuire Jr.** writes: "Having retired as a full-time clergyman in September 1989, I am now serving churches in the Utah-Idaho area as an interim pastor." Albert and Carol make their home in Roy, Utah.

**Lawrence F. O'Neill** writes: "Becky and I have moved to Terre du Lac near Bonne Terre, Mo. Lots of golf and good people." Larry is retired from Washington University in St. Louis.

**Irvin D. Robbins** writes: "Earlier this summer I had the distinct honor and pleasure of representing the University of Missouri in the academic procession at the installation ceremonies for the new chancellor at the University of North Carolina at Charlotte." Irvin is retired from the J.A. Jones Construction Co. He and Trudy live in Charlotte, N.C.

## 1949

**Elbert Ellsworth Comstock** died Aug. 3, 1989. Elbert was awarded a B.S. degree in petroleum engineering from MSM. He was employed with Continental Oil Co.; was a consulting engineer in Wichita Falls, Texas; and was a petroleum engineer with Cactus Operating Co. also in Wichita Falls.

**William H. Lenox** writes: "I retired Jan. 1, 1990 from Contech Construction Products, after 37 years. Moved from Middletown, Ohio to South Carolina and we are enjoying retirement on Lake Hartwell. I am still doing some recruiting for Contech, including UMR." Bill and Beverly live in Townville, S.C.

**Charles H. Lloyd** writes: "Old engineers do not make news." Charles and Nancy live in Springfield, Mo. He is retired.

We have been notified of the death of **Richard John Menze**. He graduated from MSM with a B.S. degree in metallurgical engineering and, prior to that, he had been a student assistant in metallurgy department and a member of ASM and AIME.

**Bob B. Myers**, has joined Wilbur Smith Associates and has been appointed as Associate-in-Charge of its Baltimore office. He retired from the Maryland State Highway Administration in the spring of 1990. Prior to his work in Maryland, Bob served in various field and central office positions with the Federal Highway Administration. Bob lives in Arnold, Md.

**Robert R. Penman, '49, '50**, writes: "I retired from Texas Instruments after 33 years of service, on Jan. 5, 1990. I am now doing consulting work in the field of management development and quality assurance, plus spending more time with my six grandchildren." Robert and Jean live in Swansea, Mass.

**Gordon E. Raymer** writes: "My wife, Dorothy (nee Walrath), **Robert 'Monty' Montgomery, '44**, his wife, Lil (nee Walrath), Marlene Walrath Riley, and I were in Rolla May 26 for the burial of Mrs. George (Emma) Walrath. Mr. and Mrs. Walrath owned and operated the Cal-Mo Cafe at old

Highway 66 and 11th Street from 1946 to 1961." Gordon and Dorothy live in Oxnard, Calif. He is retired from Lockheed.

**Harold M. Telthorst** writes: "Still working and enjoying it. Four grandchildren and one more on the way. Really enjoyed Homecoming last year. It was good to see the mature group." Harold and Virginia live in Topeka, Kan. He is civil engineer-assistant secretary for Hamm Asphalt Co. in Perry, Kan.

**Arthur L. Tucker** writes: "I retired on Sept. 30, 1990 (from Consoer, Townsend and Associates and will remain in Naples, Fla.)."

**Landon C. Viles** writes: "The biggest excitement so far this year was the kind you don't want—I had a heart attack in late February. Fortunately, it was a mild one and I got to the hospital immediately so heart damage was held to a minimum. As of mid-June, I am doing fine." Landon is retired from the U.S. Air Force. He and Virginia live in Orlando, Florida.

**William A. Wundrack** writes: "Mary Ann (Miles) and I are enjoying a two year assignment in El Salvador. The country is beautiful and climate great." Bill is vice president R&D—advanced technology for Sverdrup Corp. in St. Louis.

## 1950

**Laurel D. Berger**, who retired from the Illinois Department of Transportation in 1984 after 35 years or service, has been inducted into the UMR Academy of Civil Engineers. He is a member of the Illinois Society of Professional Engineers and the Illinois Association of Highway Engineers. Laurel and Mary live in O'Fallon, Ill.

**Robert L. Bloome** writes: "I have become quite active in the Men's Garden Club of Anderson. We are looking forward to attending the national convention of the Men's Garden Club in Des Moines, Iowa in the middle of June." Bob and Sybil live in Anderson, Ind.

**R. Frederick Boedy**, M.D. of the Medical College of Georgia has informed the alumni association that his father, **Robert Donald Boedy**, died on Aug. 30, 1990. He was retired at the time of his death.

Florette Brownell of 315 N. Washington, Cuba City, WI 53807, informs that **George Brownell** died in July of 1989. George received a B.S. degree in mining engineering from MSM and was employed by Deere and Company. At MSM, he was a member of A.I.M.E. in the fall of 1949-1950.

**Stanley Dolecki** has been elected president of the Missouri Society of Professional Engineers (MSPE). Stan is a past president of the St. Louis Chapter of MSPE and served a number of years as an MSPE state director. He has previously held the offices of MSPE treasurer, secretary, vice president and president elect. Stan is a project manager and manager of new business development for the St. Louis office of Black and Veatch Engineers-Architects. Stan and Nancy live in Chesterfield, Mo.



*Class of 1950, Group One, First Row: Paul Huber, Dick Rowton, Paul Carroll, Irv Hawkins, Bob Franklin, Eddie Franklin, Bob Peppers, Peggy Peppers, Ralph Wolfram, Peggy Wolfram. Second Row: Earl Bage, Mary Huber, Bill Haymes, Don Peterson, Mary Peterson, Norman Schneider, Jeannette Schneider, John Nichols, Marthe Nichols, Betty Ponder, Robert Ponder. Third Row: Dottie Gurnea, Robert Gurnea, Betty Acheson, Ed Acheson, Lillian Silver, Sidney Silver, Jean Zerweck, Carl Zerweck, Lorraine Spackler, Don Spackler, Blackie Berger, Mary Berger, Susan Wright, Harold Wright. Fourth Row: Lucille Ruprecht, Ruth Cady, Lucy Grimm, Betty Marting, Norma Kaller, Dottie Branson, Donald Branson, Edna Scott, Jim Scott. Fifth Row: Bill Ruprecht, Dave Grimm, Dick Marting, Joe Kaller. Sixth Row: Willis Cady, Doris Green, Paul Green (behind), Bill Collins, Larry Spanier, Elaine Spanier, Daisye Howell, Bennett Howell, Raymond Ruenheck, Jack Painter, Denise Guth, Jack Guth.*

**Bernard J. Eck** is director of product development for the Griffin Wheel Co. in Chicago. He has been elected a Fellow of the American Society of Mechanical Engineers. Bernard lives in Elmhurst, Ill.

We have learned that **Clyde C. Freeman** of Poplar Bluff, Mo. has died. He obtained a B.S. degree in mining engineering, petroleum option. His son, **Raymond A. Freeman**, '72, '73, '80, is a chemical engineer with Monsanto Co. in St. Louis.

**Donald L. Honerkamp** and his wife, Valerie Ruth, live at 1932 Overlook Road, Fullerton, CA 92631. Donald is retired from Arco.

**David Charles Kinder** died in January of 1990 according to information from **Earl Brunkhorst**, '51. Charles died in Florida where he had retired. At MSM Charles was a member of A.I.Ch.E., Alpha Chi Sigma, and M.S.P.E. He received his B.S. degree in chemical engineering. He had been employed by the Eagle-Picher Co.; the American Zinc Co.; and ZNO Research Lab, ASARCO.

**Alvin C. King** writes: "I retired at the end of April 1987 from Granite City Steel. Enjoying traveling around the country visiting our grandchildren. Celebrating our 40th wedding anniversary this year." Alvin and Verna live in Edwardsville, Ill.

**Carl K. Mann** writes: "I retired from Nooter Corp., St. Louis, Mo., after 39 1/2 years of service. Enjoying retirement completely—including swimming, traveling, and playing bridge." Carl and Norma live in St. Louis.

**Donald W. Marshall** writes: "Another great year. Spent three months in the Orlando, Florida area this past winter in our travel trailer. Got in some golf and sight seeing. We are still enjoying our lake home.—boating, golf and the usual maintenance on our home seems to always keep us busy. Our best regards to all at MSM." Don and Lou live in Sunset Beach, Mo. He is retired from the U.S. Public Health Service.

**William G. Paulsell** writes: "We have retired in Lakeport, Calif. Our children are in California so we will probably stay here." William retired as vice president of NGC.

**Wilbert F. Stoecker** has been elected a Fellow by the American Society of Mechanical Engineers. Bill is professor emeritus of mechanical engineering at the University of Illinois and is recognized as an expert in the field of refrigeration and its associated technology. Bill and Pat live in Urbana, Ill.

**John W. Weingaertner** writes: "Planning to be in Rolla for Homecoming this year." John is retired from the U.S. VA Hospital. He and Jean live in St. Louis.

**Carl E. Wojan** died at his home in Perry, Iowa on Jan. 20, 1990, according to word received from his wife Eleanor. A transfer student from Wisconsin Institute of Technology, Carl was a member of AIMME while attending MSM. He graduated with a degree in mining engineering. He was employed by the Frisco and CNW railroad and the Peabody Coal Co. before going to work for the Milwaukee Railroad. He retired after 25 years of service with the railroad.

## 1951

**C. Dudley Blancke Jr.** writes: "Just returned from a holiday in Australia." Dudley is a retired, self-employed consultant. He and Martha live in Hot Springs, Ark.

**Richard D. Broaddus** died Sept. 3, 1990. Dick served in the U.S. Army in World War II and was a retired civil engineer with the U.S. Geological Survey where had worked for approximately 30 years. During his MSM days, he was employed by the U.S.G.S. during the summers. An out-of-town guest for the services was his cousin, **Wayne (Pat) R. Broaddus Jr.**, '55. Survivors include his wife, Evangeline, two sons and three grandchildren.

**Thomas C. Browne** writes: "Still living and breathing. Guess that's a big part of the whole." Tom and Peg live in Devon, Pa. He



is a laboratory manager-quality control for Resco Products Inc. in Norristown, Pa.

**Earl R. Brunkhorst** writes: "Robert W. Brunkhorst, '71, has moved to 5 Northfield Drive, Newnan, Georgia 30265. He is senior manufacturing engineer for Yokogawa Engineer Corp. of America." Earl is retired from Aeronautics Association. He and Bonnie live in Franklin, N.H.

**John B. Griffith** writes: "Looking forward to the fortieth reunion. I'm happily modernizing an 88-year-old rail line with the newest control technology." John is senior project manager for Southeastern Pennsylvania Transportation Authority in Philadelphia. He and Joan live in West Chester, Pa.

**Daniel G. Hestetune** writes: "During 1990 I am providing technical assistance for Coal India Ltd. at their northern coalfields open-strip coal operations." Dan is a self-employed mining consultant. He and Beth live in Virginia, Minn.

**Lester W. Holcomb** writes: "I retired from the position of superintendent of highways of Randolph County, Ill. on Dec. 31, 1987, after 38 1/2 years with the Illinois Department of Transportation and Randolph County. I am now working full time —part time?? assisting my son, **Tim, '79**, with our consulting engineer business —Holcomb Foundation Engineering." Woody is president and his son, Tim, is vice president of Holcomb Foundation Engineering, RR 7, Box 199, Carbondale, IL 62901.

**George L. Knight**, who is foundry superintendent for J C Steel and Sons in Statesville, N.C., has been honored by the melting methods and materials division of the American Foundrymen's Society with the Award for Excellence in Committee Activity. George and June live in Statesville.

**Elmer D. Packheiser** writes: "My wife, Doris, and I have retired to Greencastle, Pa. I worked for Westinghouse in Baltimore, Md. We would be delighted to welcome any MSM-UMR alumni to this peaceful little town. My brother, **Frank, '50**, and sister, Ilene, still have the home farm in Rolla from which Frank and I traveled during our years at MSM-UMR." Elmer is a retired Westinghouse engineer and his brother, Frank, is a buyer of marine transportation for Amoco.

**Paul S. Pender** writes: "On July 23, 1990 I was awarded the Army Bronze Star Medal by the U.S. Army for actions in the Battle of the Belgian Bulge in 1944. It took the Army 46 years to arrive at this conclusion. I appreciate this action but it sure took me back to a lot of World War II memories!! Also I became a life member of the Ancient and Accepted Scottish Rite in Grand Rapids, Mich. It appears that I am catching up!" Paul is retired and was last employed by Holmes and Black Inc. He and Evelyn Ho live in East Lansing, Mich.

**Wiley T. Ruhl, '51, '52**, writes: "I retired from TRW in 1989 following 23 1/2 years of service with the company. My wife and I are enjoying the retirement and our three grand-



*Class of 1950, Group Two, First Row (sitting): Sid Duerr, Joan Duerr, Jack Brown (Miner shirt), Dot Brown (behind), Alden Williams, Lois Williams, Joyce Schmidt. Second Row (sitting): Bill Speece, Jan Speece, Bruce Miller, Sidney Silver, Aaron Greenberg, John Wickey, Carol McNely, Warren McNely, D.W. Breuer, Oliver Jorcke, Dorothy Jorcke. Third Row: Jackie Judah, Don Marshall, Lou Marshall, Robert Gates, Opal Gates, J. Kent Roberts, Winona Roberts, Bob Settgas, Lorraine Settgas, Elmer Breidert, Bill Edwards. Fourth Row: Russell Judah, Earl Reynolds, Dorothy Reynolds, Victor Hinch, Marianne Hinch, Charles Brinkmann, Brenda Brinkmann, Al Strain, Bob Strain, Madge Hollenbach, Marion Maag. Fifth Row: Linus Renner, Bernice Renner, Cynthia Johnston, Lou Greco, Sharon Dunn, Karl Dunn (behind), Mervin Shanafelt, Donna Shanafelt, Mary Jane Buel, Bob Buel, Del Hollenbach, Ray Maag. Sixth Row: Don Samuel, Ralph Johnston, Helen Muehring, John Muehring (behind), James McDonald, Harold Theermann, Marie Theermann, Albert Krainness, Sarah Krainness, Tom Herrmann, Bunny Herrmann, Stan Dolecki, Nancy Dolecki, Billy Browngard. Seventh Row: Clarence Isbell, Betty Jo Isbell, Bob Flippo, Peggy Flippo, Robert Davis, Russell Dieffenbach, Peggy Dieffenbach, Gabe Gabelmann, Clarence Tunncliff, Carol Tunncliff, John Weingaertner. Eighth Row: Bernie Wagner, Chris Wagner, Andy Andreasen, Phyllis Andreasen, Lloyd Phillips, Leslie Brant Robison, Gloria Kunz, Charlie Kunz.*

children." Wiley and Marion live in Westminster, Calif.

**Thomas A. Simpson** writes: "First grandson, Westen Bradley Simpson, was born Nov. 21, 1989." Thomas is adjunct associate professor emeritus at the University of Alabama.

**Clifford A. Statler** writes: "I have accepted relocation back to Arkansas where we plan to retire in September of this year (1990). Looking forward to travel, fishing and golf. Absolutely no plans for any work in the future." Clifford will retire as a project director for Vickers Inc. of Searey where he and Helen presently live.

**Floyd M. Teter** died Aug. 26, 1990. Floyd received a B.S. degree in mining engineering with a petroleum option from MSM. He served in the U.S. Army with Patton's Third Army in World War II and had been a resident of Rolla since 1947. He began employment with the U.S. Geological Survey in June of 1951 and retired in 1982.

## 1952

**John A. Bara, Jr.** died in September of 1989. At MSM John a member of the Tech

Club, Tau Beta Pi, Independents, AIME, ASM. He received a B.S. in metallurgical engineering. He was employed by Union Carbide, was a student at Oak Ridge School of Reactor Technology, worked for Battelle, Atomics International in Canoga Park, Calif., and was a design engineer for McDonnell Douglas Missile and Space in Santa Monica, Calif.

**James R. Borberg** writes: "I'm thinking of retiring in about five years —having too much fun to quit now." James is the general manager for Hampton Roads Sanitation District in Virginia Beach, Va., where he and Jayne live.

Gertrude Maday of 612 A.S. 15th St., Arlington, Va. informs of the death of **Donald S. Maday**, June 26, 1990. Donald was a member of G.D.I., A.I.M.E., Tech. Club and president of the Freshman Class while attending MSM. After graduating with a B.S. degree in mining engineering, Donald was employed with the Veterans Administration in several capacities in the Washington D.C. area.

**Waldemar D. Stopkey**, chief administrative officer of Walk, Haydel and Associates, has been elected as senior vice president of

the company. Wally and Lorraine live in River Ridge, La.

**Darus S. Westmoreland** writes: "I am really enjoying retirement." Darus is retired from the Missouri Public Service Co. He and Evangeline live in Blue Springs, Mo.

## 1953

**James E. Cauthorn** writes: "My beloved wife of 36 years passed away April 23, 1989. I have five children, all married, and six grandchildren." James is a senior engineer with AT&T Network Cable Systems in Omaha, Neb.

**Eugene J. Poschel** writes: "I am a charter member of the Northwest Florida Symphony Orchestra (play the violin)." Poschel is retired from civil service. He and Ginny live in Ft. Walton Beach, Fla.

## 1954

**James R. Patterson** has been inducted into the UMR Academy of Civil Engineers. Bob is president of Show-Me Rentals in Sikeston, Mo. and is a member of the Sikeston Development Council, the American Rental Association, the International Sanitary Supply

Association and the Missouri Society of Professional Engineers. He is the president of the MSM-UMR Alumni Association and a member of the Missouri Alumni Alliance. He and his wife, Martha, live in Sikeston, Mo.

## 1955

The alumni association has been notified by Nell Boze that her husband, **Ralph E. Boze**, died Aug. 28, 1990. Ralph graduated from MSM with a B.S. degree in mining engineering and worked as a petroleum engineer. At MSM, he was a member of the Tech Club, the Spelunkers Club, Sigma Gamma Epsilon, and AIMME. He was employed with Helmerich and Payne for 16 1/2 years. In addition to his wife, he is survived by a son and a daughter.

**William M. Hallett** writes: "Our new address is (home) 5141 N. Via Velazquez, Tucson, AZ 85715 (mailing) P.O. Box 64216, Tucson, AZ 85740-1216, phone 602-529-2857." Bill is retired from Caterpillar.

**James W. Rethmeyer** writes: "My wife, Laura, and I are enjoying our new home at 716 Lark Circle, Raymore, MO 64083." Jim is supervisor, structural specifications, for Black and Veatch in Kansas City, Mo.

## 1956

Mabel Bentilla of 601 West 8th St., Quannah, TX 79252, informs that **Kenneth Raymond Bentilla** died July 4, 1986. At MSM, he was a member of AIMME. He graduated with a bachelor's degree in mining engineering. He was employed with Boeing Airplane in

Seattle, Wash.; Ehram & Sons in Enterprise, Kan.; as a mechanical engineer for the J.I. Cafe Co. in Rockford, Ill.; as a design engineer for Beloit Corp. in Wisconsin; as a design and development engineer for the E.D. Etnyre and Company; for the Illinois Division of Highways; and was a senior engineer with Georgia Pacific in Quannah, Texas.

The "Salem News" reports that **Homer E. Dillard Jr.** has received a patent for a "voice to music converter," which electronically converts a single voice into a barbershop quartet. The voices produced are in exact harmony with the original voice. Homer and his wife, Helene, live in Bridgeton, Mo. He is with McDonnell Douglas in St. Louis.

**Arthur Reetz Jr.** writes: "I retired from NASA Headquarters last year, where I was the program manager for the Gamma-Ray Observatory. Earlier with NASA, I was the program engineer for the Hubble Space Telescope and Voyager Missions and directed the initial research in space radiation effects and shielding. I am now with SAIC in Washington, D.C., providing flight program management support to NASA's Space Physics Division." Arthur and Marlene live in McLean, Va.

## 1957

**Donald L. Henson**, (B.S. mining engineering, '57, B.S. civil engineering, '61), writes: "On May 1, 1990 I was promoted to chief engineer, Missouri Department of Conservation." Don and Alice live in Jefferson City, Mo.

**H. Bob Williams** died Feb. 21, 1990, according to word received from his wife, Dorothy, of Route 1, Box 62, Herod, IL 62947. While attending MSM, he was on the Student Council, a member of the 'M' Club, the Engineers Club, the Independents, ASCE, sophomore class vice president, lettered in football, and was on the track squad. He received his B.S. degree in civil engineering. He was past partner and manager of Williams Quarry at the time of his death.

## 1958

**Dale W. Harris**, '58, '59, writes: "I was promoted to deputy director of flight projects one year ago, I am also a senior executive in the NASA/Goddard Space Flight Center in Greenbelt, Md." He lives in Brookeville, Md.

**Joseph A. Mickes**, who is an assistant chief of engineer of operations for the Missouri Highway and Transportation Department in Jefferson City, has been inducted into the UMR Academy of Civil Engineers. Joseph has served with the Missouri Highway and Transportation Department for 31 years. He is a former chairman of the Governors Advisory Committee for Traffic Safety. Joseph and Darlene live in Jefferson City, Mo.

**George D. Tomazi** has been inducted into the UMR Academy of Electrical Engineering. He is currently the director, design and construction for Mallinckrodt Inc. Tomazi has been with Mallinckrodt Inc. since 1975. In 1970 he received an Honorary Degree of Professional Electrical Engineer from UMR.

He also has an M.S. degree in electrical engineering and an MBA degree. He is chairman of the Missouri Board of Architects, Professional Engineers and Land Surveyors and is a registered professional engineer in six states including Missouri and Illinois. George and Lois live in Florissant, Mo.

## 1959

**Robert E. Briscoe** writes: "I have been with Missouri Public Service as a meter engineer for 17 years. We have three sons; one who is currently enrolled at UMR." Robert and Martha live in Sedalia, Mo.

**Donald E. Henderson** has been appointed vice president of the western area of Contech Construction Products Inc. He and Carolyn live in Middletown, Ohio.

**Kenneth J. Heutel** writes: "I have been promoted to section chief, effectiveness engineering head of reliability and safety department for the McDonnell Douglas Electronic Systems Company-Lasers and Electronic Systems." Kenneth lives in St. Charles, Mo.

## 1960

**Ralph G. Angle** writes: "Have been living in Pinehurst, N.C. for three years and playing lots of golf. We have 40 courses within a 20 mile radius. Great fun." Ralph is a retired teacher.

**Walter H. Dickens** writes: "My wife, Betty, and I are retired in Dixon, Mo. Spend lots of time vacationing in the Branson, Mo. area. Classmates and friends are invited to stop in for a visit. Looking forward to 30 year Homecoming celebration." Walter is retired from the U.S. Army.

**James L. Eckhoff** has been inducted into the UMR Academy of Electrical Engineering. He was recognized by the academy for his contributions to and leadership in certain engineering functions of manufacturing and procurement of computer products. Eckhoff, who has been with AT&T since 1961, is presently manufacturing vice president, data systems products, AT&T, Lisle, Ill. James and Myrna live in Naperville, Ill.

**Louis C. Rephlo** has been inducted into the UMR Academy of Electrical Engineering. Rephlo was recognized for his contributions to and leadership in telecommunications engineering functions including management of the design and implementation of large mainframe and minicomputer systems. Rephlo recently became vice president-electric operations at West Virginia Power, a division of Utilicorp United, after being with AT&T for 29 years. Louis and Ruth live in Lewisburg, W. Va.

**David C. McNeely** writes: "I am back in the Houston area. Can't seem to stay away from the industry I really enjoy. My wife, Nadine, and I have been married almost 32 years; have three granddaughters and two grandsons." Dave and Nadine live in Spring, Texas where he is a senior engineer with Golden Strata Services.



Class of 1955, First Row: Bob Oetting, Tommie Ruth Oetting, William Hallett, Jane Hallett, John Miles, Cam Barnds, Doris Barnds, Peggy Collier. Second Row: Pat Broadus, Jan Weitzel, Pete Weitzel, C.W. "Willie" Schuman, Evelyn Schuman, Walter Casler, Margaret Casler, Evelyn Baker, Chester Baker, Ray Pfaff. Third Row: Jim Franklin, Charlotte Franklin, Richard Berg, Katie Berg, James Mullen, Richard Kaiser, Norma Lu Kaiser, Scott Porter, Barbara Porter.



Class of 1960, First Row: Glenn Cordes, Shirley Cordes, Leland Hauth, Zoe Ann Hauth, Carl Daubel, Shirley Daubel, Sallie Landers, Lee Landers, Joyce Woodward. Second Row: Rosey Hoffman, Vic Hoffman, Bill O'Neal, Tom Cooper, Doris Priesmeyer, Bill Priesmeyer, Connie Byrne, William Byrne, John Woodward. Third Row: Andy Anderson, Don Gunther, Bruce Bramfitt, Rosemary Denk, Bill Denk, Roberta Bowers, Martin Bowers, Harold Schuetz. Fourth Row: Jerry Gilmore, Pat Pendleton, Ken Pendleton, Frank Watson, Janet Watson, Betty Dickens, Walter Dickens, Louise Schroer, Herb Schroer.

## 1961

**Robert G. Biermann** died Feb. 12, 1990, according to information provided by Laura J. Greenfield of Tucson, Ariz. At MSM, Robert was a member of A.S.C.E., was secretary-treasurer of the Photo Club in '58-'59. After receiving a B.S. degree in civil engineering, he was employed by the Federal Aviation Agency, the Fire Underwriters, Kankakee Water Co., Karlock Enterprises and was manager of the water and waste water department of the Papago Tribal Utility Authority at the time of his death.

The *Oil and Gas Journal* of July 16, 1990 reports that **Larry E. Farmer** has been named managing director of Brown and Root Marine. Larry joined Brown and Root in 1976.

**Jimmy D. Hahs, '61,'66**, writes: "I became an associate professor of the School of Applied Science and Technology—East Tennessee State University in the fall of 1990." Jimmy and Ruth live in Johnson City, Tenn.

## 1962

**N. Patrick Duvall** writes: "Doing lots of traveling; trips to London, Rome, and Frankfurt. I was selected for American Institute of Astronautics and Aeronautics 'outstanding technical management award' for 747-400 combo program in June 1990. Pat is manager-747/767 cargo systems for Boeing in Seattle, Wash., where he and Kay live.

**James R. Hesse** writes: "American Brass Co. was purchased by Outokumpu Copper Company of Finland in September 1990. I just completed a tour of Outokumpu's plants in Sweden, Holland and Spain. Am living with my 14-year-old son, Dan, in Buffalo. The other four sons are on their own. Have two grandsons and a granddaughter." Jim is director-technical department, Outokumpu-American Brass.

## 1963

**Wayne F. Balsman, '63,'64**, writes: "I was promoted to vice president, process control engineering at Epstein Process Engineering. Enjoy the consulting business. Family is doing well with two in college and one entering in '91." The Balsmans live in Crystal Lake, Ill.

Kathryn Custer of 1287 Washington Road, Pittsburgh, Pa., 15228, sends news of the death of her husband, **Phillip Edward Custer**, on Aug. 8, 1990. Phillip received a B.S. in civil engineering from the University of Idaho and a M.S. from UMR. He was commissioned into the Army in 1958 and spent 24 years of active duty with the Army Corps of Engineers and retired as a Lt. Col. Subsequently he lived in Pittsburgh where he practiced as a professional engineer.

**Bill H. Reid** writes: "I retired from the U.S. Public Health Service after 26 1/2 years as a captain. I am now working for the Cherokee

Nation heading up their engineering department." Bill and Beverly live in Welling, Okla.

**Arvinkumar M. Shah** writes: "We have started a new business. Acquired the West Coast Video franchise for video rental and sale in Addison, Illinois." Arvind is also a project engineer for J.I. Case Co. in Hinsdale, Ill. He and Malti live in Addison.

**Sam L. Smith** and his wife, Glatha, live at 3290 Majestic Prince Drive, Owensboro, KY 42303-2435. Sam is engineering manager for the NSA division of Southwire Company in Hawesville, Ky.

## 1964

**C. Stuart Ferrell**, who is an assistant professor in the Department of Engineering Technology at New Mexico State University in Las Cruces, has been inducted into the UMR Academy of Civil Engineers. Dr. Ferrell received a B.S. in 1964 and a Ph.D. in 1971 from UMR and a M.S. from Rice University in 1966. Prior to joining the faculty at New Mexico State University, he served with Southern Illinois University-Carbondale and was a member of the faculty at Louisiana Technical University-Ruston. Stu and Jeanie live in Las Cruces, N.M.

**Merriett Gist Wilbur Jr.** died June 14, 1990. At UMR, Gist was a member of A.S.C.E., S.A.E., and Prospectors. He re-

ceived his B.S. Degree in civil engineering. He was a hydraulic engineer with the Little Rock District of the Corps of Engineers at the time of his death.

## 1965

**Roy D. Hays** has been inducted into the UMR Academy of Electrical Engineering. Dr. Hays was recognized for his contributions and leadership in engineering functions of radar and radio frequency seekers, waveform design and signal processing, mathematical modeling and computer simulation, foreign technology analysis, and electronic warfare. He is senior vice president, Dynetics Inc., in Huntsville, Ala. and Ft. Walton Beach, Fla. Roy and Sandy live in Huntsville.

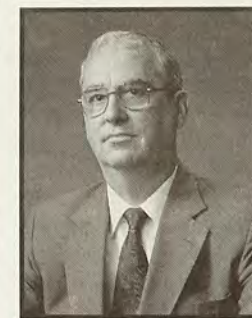
**Clyde A. Vandivort, '65,'67**, has led a management group of five of the 12 employees of Chek-Tech, a software company, in purchasing a majority interest in the Purina Mills Inc. subsidiary. Clyde reports that the company will be able to tap customers and dealers outside the Purina network while still serving Purina dealers and customers. Chek-Tech's office will remain at 543 Hanley Industrial Court, Brentwood, Mo. Clyde and Beverly live in Kirkwood, Mo.

**Travice W. Whitten** writes: "Michele Sharon Brewer and I were married on Aug. 21, 1990. We reside at 1295 Riesling Terrace, Sunnyvale, CA 94087." Travice is assistant city engineer for Cupertino, Calif.

**James M. Winkelmann** writes: "I was named the vice president of engineering for the Cooper lighting division of Cooper Industries. Family has relocated to Naperville, Ill. in suburban Chicago. Son, Michael, is a sophomore at Michigan State University, daughter, Julie, is a junior at Naperville High School and son, David, is in the fourth grade."

## 1966

**Willard W. Diel** writes: "I have owned my own engineering and surveying company for five years. Three children—all married." Willard is the owner of Diel Engineering and Surveying in Gallatin, Tenn.



**H. Dennis Haubein**, vice president of A.B. Chance Engineering, has contributed one of seven case studies which appear in "Managing the Design/Manufacturing Process", a newly-

published book for engineering managers. He lives in Centralia, Mo.

**David M. Duree** writes: "I am a principal partner in the law firm of Reinert and Duree, St. Louis. The firm specializes in construction law in eastern Missouri and southern Illinois." David and Catherine live in O'Fallon, Ill.

**Linda (Vopat) Weber** writes: "Have a new son, Frank J., born May 18, 1989." Linda is an instructor at Barton County (Kansas) Com-

munity College. She and her husband, Wallace, live in Dorrance, Kan.

1967

**James W. Gorrell** writes: "I was promoted to general manager of engineering, Brown and Root southeastern region, last November and moved into a new house in December. Hardey and Andrea are seniors at Texas A&M and Lora Leight is a freshman at Auburn. Lida and I are enjoying the empty nest syndrome for the summer." James and Lida make their home in Mobile, Ala.

**Howard H. Stein, '67,'70**, writes: "Promoted to principal of System Aire Inc." He and Geraldine (Jeri) live in Chesterfield, Mo. System Aire Inc. is located in Earth City, Mo.

1968

**David M. Faintich, '68,'73**, writes: "I am responsible for all disaster and recovery activities of Sigma Chemical Co. and its parent, Sigma-Aldrich Corp. This is in addition to various security responsibilities and D/P contract negotiations." David and Carol live in Olivette, Mo.

**William J. Green, '68,'69**, owner of Soil Consultants Inc., writes: "Soil Consultants has opened two branch offices: SCI Environmental in Chesterfield, Mo. and SCI Engineering and Materials Testing in Fairview Heights, Ill. with an expanded staff of 55 employees to serve the St. Louis metro area needs for geotechnical and environmental services."

**Richard E. Sharp, '68,'69**, writes: "I took early retirement on Nov. 30, 1989 and am now employed as a consultant for Panhandle Eastern." Richard and Earlene live in Cypress, Texas.

**Richard E. Spors** writes: "Celebrating our 25 year wedding anniversary." Richard is personal systems supervisor for Ford Motor Company in Dearborn, Mich. He and Kathleen live in Birmingham, Mich.

**Galen M. Strain** writes: "I taught at Clinton High School for 27 years. Scholastic Bowl coach for six years." Galen and Marilyn make their home in Clinton, Ill.

1969

**David L. Butherus, '69,'75**, writes: "I'm still living near Fairbanks, Alaska, and have been doing contract mineral exploration." David is self-employed.

**John W. Cable** writes: "Daughter, Ellen Marie, is enrolled at the University of Missouri-Columbia as a freshman in pre-law this fall." J.W. is a staff engineer with Allied-Signal Aerospace in Kansas City, Mo. He and Claudene live in Kansas City.

**Rodney B. Hawkins** writes: "I changed jobs and title in January this year. I am now responsible for managing a laboratory replacement project. I am enjoying getting back in the technical side of things." Rodney is senior staff chemist for Inland Steel in East Chicago, Ind. Rodney and Patrica live in Hammond, Ind.



Class of 1965, First Row: Chuck Seger, Pam Seger, George Carr, Kay Wicklund, Mike Wicklund, Irene Goldstein, Martin Goldstein. Second Row: Rick Schmidt, Sarah Schmidt, Gloria Junge, Greg Junge, Terry Towers, Janice Towers, Gene Faenger, Donna Bersett, Jerry Bersett. Third Row: Ken Ferguson, Johnna Ferguson, Gary Hinz, Sharra Hinz, Don Miller, Liz Miller, Bill Falke, Jan Falke, Carl Reichert.

**Daniel Lee Hensley, 43**, died Sept. 10, 1990. Daniel received a B.A. degree in English from UMR and a master's degree, also in English, from the University of Missouri-Columbia in 1983. He had been employed as an ammunition inspector for the U.S. Government at the Savannah Army Depot in Savannah, Ill. At the time of his death, he was a case supervisor for Missouri's Child Support Enforcement Division. Survivors include his wife, Christine, of Columbia, Mo. a son and a daughter.

**H. Edward Midden III** has been inducted into the UMR Academy of Electrical Engineering. Midden was recognized for his contributions and leadership in engineering functions of management, operation and technical expertise in the electrical contracting industry. He is president of Mansfield Electric Co. in Springfield, Ill., and has served in that capacity since 1975. Edward and Anne live in Springfield.

**Thomas F. Schlaf** writes: "I have begun a new job as senior research chemist at Hardwick Chemical Company, Elgin, S.C." Thomas and Suarez live in Columbia, S.C.

**Thomas S. Schmidt** writes: "I continue my independent oil and gas consulting practice. Wife, Pat, is a second year nursing student in Dallas and the girls are doing fine." Tom is the president/owner of Schmidt and Associates in Plano, Texas.

**William D. Webster, '69,'75,'78**, GMI Engineering and Management Institute faculty member, was promoted to the rank of

professor, mechanical engineering. Dr. Webster has been with GMI, Flint, Mich., since 1987

1970

**Michael R. Apprill** has been inducted into the UMR Academy of Electrical Engineering. The academy recognized Apprill for his contributions and leadership in various functions of engineering, operation and management of public service distribution and transmission systems. He is vice president, engineering and system operations, Missouri Public Service. He has served with Missouri Public Service since 1970. He and Donna live in Raytown, Mo.

**Larry W. Mays, '70,'71**, writes: "I became chairman of civil engineering at Arizona State University after 13 years at the University of Texas in Austin where I was director of the center for research in water resources and an engineering endowed professor in civil engineering. Larry and Lynn live in Scottsdale, Ariz.



**Don Davidson**, writes: "I am a thermophysics consultant on America newest space program, the space station 'Freedom'. I live in Haddonfield, New Jersey." Don is assigned to the

RCA Aerospace Division in Camden, New Jersey and previously worked on the space programs Mercury, Gemini, and Skylab.

**David L. Raby, '70,'73**, writes: "Dotty, the girls and I are on another adventure. This time, east of the Mississippi. We've recently moved to Charlotte, N.C. where I'm office manager for CH2M Hill. Once we buy a house, will notify all of our friends of our new address."

**Bernard W. Sandner** writes: "I have recently been appointed as vice president of operations for Enron Corp. in Houston, Texas." Bernard and Virginia live in Houston.

**Walter S. Schamel** writes: "Still traveling world wide with FAA's Pilot Examiner Standardization team." Walter and Jacquiline make their home in Yukon, Okla. He is an Aviation Safety Inspector for FAA.

**Byron H. Taylor** writes: "Kay and I still enjoy Arabia very much after 16 years. The only question we have is 'where are you, Arant?'" Byron is superintendent-production, maintenance/offshore for ARAMCO.

**Dennis L. Zullig** writes: "Recent experience —three years as manager of quality control engineering and process engineering in Yabucoa, Puerto Rico, two years as operations manager over construction and relocation of a manufacturing operation to dual locations in El Paso and Juarez. Two years as operations manager in Greenville, S.C. with responsibility for manufacturing operations



Class of 1970, First Row: Leslie Hoeckelman, Bonnie Hoeckelman, Kathleen Tucker Landreth, Edward Landreth, Elliot Landreth. Second Row: Michael Rooney, Ruth Ann Rooney, Bob Hart, Mona Hart, Tom Weiss, Jane Weiss (standing behind each other), Bobbie Wedge, Keith Wedge (behind Bobbie).

and construction and relocation to a new facility." Dennis is vice president, National Electrical Carbon Corp. He and Mary live in Findlay, Ohio.

## 1971

**Robert R. Broyles** writes: "My wife, Martha, and I have come back home! After serving the Hewlett Packard Company in numerous locations, I recently resigned to fulfill a lifelong entrepreneurial urge. My wife and I have formed Lakewood Watercraft Inc., Lee's Summit—the Kansas City area's only outlet for Wellcraft world class performance and family ski boats. We welcome all UMR grads to our new Lee's Summit location; please identify yourself as an alumnus for special promotional pricing consideration."

**Robert W. Brunkhorst** has moved to 5 Northfield Drive, Newnan, GA 30265. He is senior manufacturing engineer for Yokogawa Corp. of America.

**Ryan L. Forrest** writes: "In December 1989, we moved again. I am now establishing new training programs for employees and customers of Texaco Lubricants Company, Houston, Texas. I'd like to hear from Delta Sig's in the Houston area." Ryan and Lou Ellen live in Spring, Texas.

**Archibald M. Gallup, '71, '83**, writes: "We now have a son who is a declared C.E. student at UMR starting his second year and a member of Sigma Chi. We enjoy living near UMR and being able to take advantage of the cultural events on campus." Archibald

is a deputy division engineer for the U.S. Army Corps of Engineers in the North-Central Division. The Gallups live in Rolla.

**William M. McKinney, '71, '74**, writes: "Completing 15 years with Conoco. I am now responsible for administration and technical support for production R&D in Ponca City. Son, Nathan, 15, and daughter, Sarah, 12, both doing well in junior high. Nathan will receive Eagle Scout rank within a few weeks." William, Linda, and the McKinney family live in Ponca City, Okla.

**Robert E. Sherwood's** new address is 354 N. 8th Ave., Des Plaines, IL 60016

## 1972

**Lloyd A. Alinder** writes: "I have been employed with McDonnell Douglas for 18 years and am currently a senior technical specialist in production methods engineering. Bonnie and I have two children, 20-month-old Kyle and 6-week-old Monica."

**Robert T. Berry** has been elected vice president of the Missouri Society of Professional Engineers (MSPE). Bob is vice president and manager of the St. Louis office of Burns and McDonnell Engineering Company headquartered in Kansas City. He received a B.S. in civil engineering from UMR. He is also past president of the MSPE Western Chapter and was named Young Engineer of the Year for the Western Chapter, MSPE and NSPE in 1981. Bob serves on the MSM-UMR Alumni Association Board of Directors and on the University of Missouri Alumni Alliance. He and his wife, June, live in Ballwin, Mo.

**Teriel E. Burke** writes: "I began employment again with the Illinois Department of Transportation in July 1990 after being with Sangamon County Highways for 12 years. I'm in the Bureau of Local Roads and Streets as a project development engineer. Deb, Sadie, Rob, and I still live in Chatham, Ill."

**F. Oscar Curth** writes: "I was recently made manager of the maintenance department of Intercor, an Exxon Affiliate. I am responsible for major equipment maintenance in El Cerrejon, a coal mining operation in the northern region of Colombia, South America. My wife, Carolyn, two cats, and I have lived in Colombia for the past 5 1/2 years." Oscar's mailing address is c/o Intercor, P.O. Box 52-3337, Miami, FL 33152.

**Gary E. Ferguson**, project manager for Black and Veatch, writes: "We are building the first coal-fired plant in Hawaii at Barber's Point on the island of Oahu. My assignment is from February 1990 through October 1992. Hawaii is expensive, but the beauty, culture, and weather are wonderful. Our family would not have missed this experience!!!" Gary and family live in Mililani, Hawaii.

**Gary D. Forsee** writes: "I left AT&T after 18 years in December 1989 to join Sprint Government Systems division. In August, I was appointed chief operating officer of the division. Sherry and our two daughters, Karen, 11, and Melanie, 13, are looking forward to moving back to Kansas City."

**Dennis R. Nethington, '72, '82, '85**, writes: "I am working as a computer geologist for

Mobile Oil in New Orleans. I married **Nancy Jayne Elfrank, '85**, in December of 1985. We have two daughters, Amy Elizabeth, born June 21, 1987, and Emily Diane, born Dec. 18, 1989." Dennis received a B.A. in history in 1972, a B.S. in geology and geophysics in 1982 and an M.S. in geology and Geophysics in 1985 from UMR. The Nethington family live in Mandeville, La.

Laura Spear of 2315 C Bluff St., Boulder, CO 80304 informs that **John Melvin Ury Jr.** died April 21, 1990. John received a B.S. degree in mechanical engineering from UMR. He had worked for Ball Metal Container Group for eleven years and was a production engineer for the company at the time of his death.

## 1973

**Philip R. Downs** writes: "I have accepted a new position as manager-alternator production for Nipponenso Tennessee Inc. After an initial assignment in Japan, Debby and I have settled in Maryville, Tenn."

**John W. Halloran** writes: "My wife, Susan, and I recently moved to Ann Arbor, Mich. where I am a professor of materials science at the University of Michigan. Before that I was in the Boston area with Ceramic Process Systems."

**Paul W. Horstmann, '73, '74**, writes: "I have been named program manager for electronics design automation and VLSI at the IBM Corporation, Somers, N.Y. My wife, Susan, baby girl, April, and I live in Pleasant Valley, N.Y. It's hard to believe that 17 years have gone by since graduation, but I have enjoyed it all and feel that the education I got at UMR was critical to my success. If any of my college friends are ever in N.Y., please stop by."

**Rolland Hugo Kluge** died May 6, 1990. Kluge received a master's degree in engineering management from UMR. Employment included service with Dow Chemical Co., McDonnell Douglas Corp, civil service and as city engineer for Pagedale, Mo. He entered the Navy in 1941 and the Navy Reserve in 1950 and received his honorable discharge as a captain in 1952. He was retired from the U.S. Army where he had been employed with the Army Aviation Systems Command.

**Steven K. Lett** writes: "Lived in the same house for the last 16 years and married to the same woman (Beverly) for 21 years. Have four children; ages 7 to 16 (Gabe, Gabrielle, Rachele and Jared). Now I am president of Tri-State Engineering Inc., Joplin, Mo., a small land surveying and civil engineering firm."

**Robert L. Stewart, '73, '75**, writes: "I continue to work at EPA in water management." Bob is a sanitary engineer with EPA in Kansas City, Kan. He and Kathryn live in Blue Springs, Mo.

**Alexis C. Swoboda, '73, '75**, senior production engineer for Maxus Exploration Co. in Dallas, Texas, will continue to serve on the Board of Directors of the Society of Women

Engineers (SWE) for 1990-1991. She will represent SWE members in Arkansas, Louisiana, Mississippi, and Texas. Alexis is a member of the SWE Dallas Section

**Maximilian Toch** writes: "Enjoying my new position; it's great to get back to environmental engineering." Max is a lieutenant colonel and department chief, environmental restoration division, in the U.S. Army Corps of Engineers in Washington, D.C. He and Terry Ann, also '73, live in Springfield, Va.

**Steven C. Wilhelms** writes: "George Gulley, '73, where are you?" Steven and Susan live in Vicksburg, Miss. where Steven is a research hydraulic engineer for the U.S. Army Corps of Engineers.

1974

**Thomas W. Barkalow** writes: "I have been employed for the last year by the Department of Energy —Chicago operations office, as a nuclear safety engineer." Tom and Patricia live in Glendale Heights, Ill.

**David K. Bross** writes: "I am now in my 16th year at Parkway West. I've seen many of my former students go on to UMR. This fall my son, Scott, is a freshman in ME at UMR and really enjoys it." David is a physics teacher at Parkway West in Ballwin, Mo. where he and Vicki live.

**Richard L. Elgin, '74, '76,** writes: "I am happily in the surveying business in Rolla. I spend every free minute collecting and researching Early American surveying equipment. My collection now is about 250 items and two Land Rovers." Dick is president of Elgin Surveying and Engineering Inc. in Rolla.

**James R. Hensley** writes: "Just relocated to Hudson, Ohio in August. Stayed with the same company, Vulcan Chemical, as regional sales manager responsible for two salesmen

and parts of six states. Family looking forward to a warmer winter in the Cleveland area, warmer than Wisconsin."

**James E. Hurtte** writes: "We are still in Taylorville, and have been since 1976. We have four sons; twins Eric and Chris, 15, Travis, 12, and Luke, 2." Jim is safety manager for Peabody Coal in Pawnee, Ill.

**Bruce W. McCray** died June 19, 1990. Bruce was a resident engineer with the Illinois Division of Highways at the time of his death. While he attended UMR he was associated with ASCE, GDI, and played intramural softball.

**Michael J. Miller** writes: "Debbie and I would like to share the news of a new baby girl, Meghan Kathleen, and a surprise promotion to Lt. Col. for the 'wish he were flying' but 'stuck in the Pentagon' USAF member of the family. Expect to be transferred to Texas in January 1991, back to the 'wild blue yonder'. All are well and wishing ya'll well." Michael is an operations staff officer —western hemisphere, on the Joint Chiefs of Staff at the Pentagon in Washington, D.C. He and Debbie live in Springfield, Va.

1975

**Michael B. Brake** writes: "After 15 years with Westinghouse Electric Corp., I have accepted the position of manager of the testing floor for Asea-Brown Beveri in St. Louis, Mo." Michael and Mary live in St. Louis.

**James R. Fricke** writes: "Robert A. Fricke, '77, died in automobile accident on April 22, 1990. His family and his friends miss him very much." Jim is data processing manager for Data Freight Inc. in Kansas City, Mo. He and Cynthia live in Lenexa, Kansas.

**Pamela (Thebeau) Leitnerman** is R&D section manager for Hewlett-Packard in



Class of 1975: Chuck Trnka, Mary Lee Trnka, Rick Wurth.

Sunnyvale, Calif., where she, her husband, Dennis, '76, '77, and children live.

**James H. Martin** writes: "I was recently promoted to commander in the U.S. Navy and screened for command of a major aircraft intermediate maintenance department. Received orders to the aircraft carrier USS Independence. Expect to deploy to the Persian Gulf aboard the USS Guadalcanal, then transfer to the USS Independence when she is in San Diego in July 1991." James and Tina presently live in Virginia Beach, Va.

**Thomas O. Miesner** writes: "Just a note to say I'd love to hear from the old IHZ gang. My address is 725 Cheltenham Drive, Katy, Texas 77450, phone number 713-293-2107." Tom is manager-business development for Conoco in Houston, Texas.

**Thomas J. Mittler** writes: "Completed assignment as project manager for new wastewater treatment plant, promoted to supervising engineer, civil engineering. Twin daughters, Sandi and Tammi, started college at the University of Texas-Austin. My wife, Jan, is staying busy working at Mother's Day Out, volunteering and crafts." Thomas is with Eastman Kodak-Texas Eastern in Longview, Texas.

**Jeffrey L. Rose** writes: "I transferred from Southwestern Bell to AT&T when the Bell System broke up. I have been living in Orlando, Fla. the last eight years and enjoy-

ing every minute of it. I got married in 1986 and Cathy works for AT&T as well. I would like to hear from any of the old gang." Jeffrey and Cathy live in Longwood, Fla..

**Lawrence E. Smith** and his wife, Geri, '83, are the parents of a daughter, Virginia, born in January of this year. Geri is with AT&T and Larry is a teacher with Gary Career Center. They live in Kansas City, Mo.

**Carl R. Sorrell** writes: "I am a program manager with LEA-CON, Houston, Texas, a refractories construction firm. Have been in Houston for six years and love it. Best wishes to all in Rolla."

**Michael H. Starkweather, '75, '82,** writes: "I'm closing in on 14 years at Anheuser-Busch. I recently became the manager of local area networks." Mike and Alma reside in St. Louis.

1976

**Robert E. Helmkamp** writes: "I'm still working for Shell in New Orleans. I recently became division production engineer in Deepwater Division Systems Engineering. My wife, Barbara, has started back to school as a graduate student in physics at Louisiana State University." Bob and Barbara live in Covington, La.

**Hugh C. Kind**, along with his co-authors, was the recipient of the Steel Division's Best



Greg McClain, '72, (right) receives a Governor's 1990 Volunteer Award for his work in programs for high school students in Iowa from Governor Terry E. Branstad. Greg's work in directing students toward careers in engineering and science is recognized throughout the Midwest.

Paper Award at the 94th Casting Congress of the American Foundrymen's Society in Detroit. Hugh is product manager—ferrous metal, for Foseco Inc. in Break Point, Ohio. He lives in Cleveland, Ohio.

The alumni association has been informed by Mr. and Mrs. Leach that their son, **Rodney Wallace Leach**, died. Rodney graduated from UMR with a bachelor's degree in chemical engineering. While he attended UMR he was a member of the Karate Club, GDI, AIChE, and MRHA. He had been employed by Goodyear for most of his career.

**Dennis W. Leitnerman**, '76, '77, writes: "I was installed as chairman-elect of the Professional Engineers in Industry division of the National Society of Professional Engineers at their annual meeting. In January 1990, I was installed as member of the WESCON Board of Directors. **Pam**, '75, Eric, 5, Craig, 2, and I live at 1637 Waxwing Ave., Sunnyvale, CA 94087." Dennis is a network project manager for Hewlett-Packard Company.

**Thomas E. Meyer** has been named vice president with responsibility for HVAC estimating and managing selected-process piping jobs for the Corrigan Company in St. Louis. Thomas has been with the Corrigan Co. for 11 years. He and Joann make their home in St. Louis.

**William C. McAllister**, writes: "I was promoted to assistant vice president, environmental affairs, IBP Inc., in 1989. My wife, Connie, is in the nursing graduate program at the University of Nebraska. Hey, who cares where Larry Gueuel and Terry Whitesides are?" Bill and Connie live in Sioux City, Iowa.

## 1977

**Robert Alan Fricke** died in an automobile accident on April 22, 1990, in Lenexa, Kan. according to word received from **Joseph F. Reichert**, '59. At UMR, Robert was a member of IEEE, GDI, the Campus Club, and played Rugby. He had worked as a field engineer with Schlumberger International in Venezuela, Colombia, Uruguay and Scotland and was employed as an acoustical consultant with Coffeen and Fricke in Merriam, Kan. at the time of his death.

**Sandra (Turnbough) Marx** writes: "Mike, also '77, and I have a little girl, Stephanie, 1, and a son, Jason, 6 1/2. Mike and I work for BP America in Cleveland. Mike is manager, project engineering for retail marketing. I am a senior technology analyst at the BP America Research Center. We reside at 8681 Oakwood Lane, N. Royalton, Ohio 44133."

**Randall L. Moore**, '77, '81, writes: "Coating sales continue to grow as does our company." He is president of R.L. Moore Inc. in Kirkwood. Randy and Patty also live in Kirkwood.

## 1978

**Mason G. Bailey** writes: "Opened the consulting firm Bailey Associates Computing"

at 1906 Knob Creek Road, Johnson City, TN 37604, telephone 615-283-0543 in May 1990." Dr. Bailey is an associate professor, computer science at East Tennessee State University in Johnson City, Tenn.

**Steven M. Baumann** writes: "I am married to Cathy (Hinson) Baumann. We have two children, Rachel, 5, and Rebekah, 2." Steven is an engineer with Union Electric in St. Louis. The Baumanns live in High Ridge, Mo.

**Rona (Whittall) Donahoe** writes: "I received tenure and was promoted to associate professor of geochemistry at the University of Alabama in August." Rona's husband, **James L.**, also '78, is a staff researcher for the University of Alabama. They live in Tuscaloosa.

**David M. Levings** writes: "August brings to an end my two year term as the national president of Alpha Chi Sigma, professional chemistry fraternity. After six years on the Supreme Council, I'm not sure what I'll do with the newfound free time, but I'll probably find something." Mitch is staff engineer with Houston Lighting and Power in Houston. He and Karen live in Lake Jackson, Texas.

**Michael J. Smith**, design engineer for Caterpillar Inc., writes: "Back in January 1990 I transferred to the new engine concept section of Caterpillar Engine Division Engineering."

**Mike and Carol (Patzmann)**, '80, live in Dunlap, Ill.

## 1979

**Rodrigo S. Chamorro** writes: "I am project manager in a consulting contract between ENDESA-Chile and Bolivia for the development of two models for the optional operation of the Bolivian hydrothermal power system." Rodrigo and Maria live in Santiago, Chile.

**Kathleen (Miles) Daniel** writes: "Our son, Adam, started kindergarten this year, the same week our daughter, Ashley, turned two. Otherwise everything is quiet." Kathleen is senior technical specialist for Trans World Airlines Inc. in Kansas City. She and Gerald live in Liberty, Mo.

**Keith L. Donaldson** writes: "We moved to the low-country! Sue is a consultant for Amoco Chemical and I am working for Charleston Packaging Co. (quality assurance and industrial engineer), learning about the world of sugar and flour bags. Steven started kindergarten this year and is teaching us Spanish. Megan was born in February 1990 and is quickly developing right before our eyes. Are there enough alumni in the low-country to start a section?" Keith, Susan and family live at 1454 Diamond Blvd., Mt. Pleasant, SC 29464.

**John F. Eash**, '79, '90, writes: "I received an M.S. in engineering management from UMR GEC in St. Louis in August. I am serving as president of the St. Louis Chapter of the Society of Flight Engineers." John is lead engineer flight test for McDonnell Douglas. He and Marie live in St. Charles, Mo.

**Kenneth R. Foster Jr.** is a field and bridge Inspector for the Missouri Highway and Transportation Department in Jefferson City, Mo. He and wife, **Joyce**, '83, make their home in Holts Summit, Mo.

**Richard F. Humphreys** writes: "I am project leader for paperless factory floor automation project. Recently divorced." Fred is a technical specialist-information technology for McDonnell Douglas.

**Carla J. (Branson) Yager** writes: "I am working for IBM in a support role for the space shuttle program." Carla is a staff engineer/scientist for IBM in Houston where she now resides.

## 1980

**Robert D. Davinroy** has won the Gustave Willems Award presented by the Permanent International Association of Navigation Congresses. This is one of the most prestigious awards a river engineer can receive. Rob is a hydraulic engineer with the St. Louis District of the US Army Corps of Engineers. This information was sent to the *MSM Alum-*



*Class of 1980, First Row: Tom Helfrich, Dawn Helfrich, Michael Anderson, Rhonda Anderson, Katie Wesselschmidt, Keith Wesselschmidt. Second Row: Michael Bynum, Michael Buel, Monica Buel, Mark Viox, Janet Knobbe, Risa McCann, Bob McCann. Third Row: Charles McField, Jocelyn McField, Bruce Bartlett, Jeff Sheets, Pat Klug Sheets, Terri Walden, Dan Walden, Mary Ronchetto, Gene Ronchetto. Fourth Row: Mark Walz, Jane Walz, Ann Hagni, Tammy Hickman, Karen Herbert, Richard Herbert, Steve Null.*

by **Claude N. Strauser, '69**, chief of the potamology section of the St. Louis Corps.

**Jack F. Geerlings, '80, '85**, writes: "I am still working for McDowell and Associates outside of Detroit. Kathy and I just bought a home in Ferndale (Michigan). Mark is now 3 and Beth is 1 1/2 so we stay busy." Jack is senior geotechnical engineer for McDowell and Associates in Ferndale.

**Carol (Potzmann) Smith** and her husband, **Michael J., '78**, reside in Dunlap, Ill. Michael is a design engineer with Caterpillar Inc. in Peoria, Ill.

**Robert J. Wille** writes: "I was recently promoted to district product support representative with Caterpillar Inc. We have transferred to Hartford, Conn. Our new address is 10 Wyndwood Road, Farmington, CT 06032."

**Timmy A. Williams** writes: "Brinkmann Company is continuing to grow and be successful in the St. Louis market. This is keeping me very busy. We still live in Grover, Mo., just west of St. Louis. Our daughter, Kristin, just turned 9 months old. Cheryl is staying home to raise our daughter and has her hands full." Tim is a project manager for Brinkman Co. in St. Louis.

## 1981

**Karen (Kohl) Beckman, '81, '84**, writes: "Mike and I are still busy as ever. We really enjoy sailing on Lake Michigan in our spare time." Karen and Mike, '82, are development chemists with PPG Industries in Oak Creek, Wis. They live in Franklin, Wis.

**David M. Gresko** writes: "I was promoted to principal project engineer and am currently working on Arco Chemical's \$500 million expansion in Channelview, Texas. My wife, Lisa, and son, Robert, are both fine, enjoying the heat and humidity of Houston." The Greskos live in Kingwood, Texas.

**Craig G. Burchett** and wife, Teri live in Belton, Mo. Craig is a project engineer with RJN Environmental Associates in Mission, Kan.

**Maureen A. Dugan** writes: "My company, Computer Task Group Inc., transferred me from the St. Louis branch to the Delaware Valley branch. Come out for a visit or call if are passing through Wilmington, Del. or Philadelphia, Pa. My address is Essex Hall #6, English Village, Newark, DE 19711." Maureen is an advisory systems engineer with

**Robert H. George** writes: "If anyone knows of someone (non-defense) looking for a BSEE/MBA with an interest in components/marketing/product development, please let me know." Robert is systems engineer with Emerson Electric in St. Louis. He and Colleen live in St. Louis.

**George J. Harvilla** writes: "I'm working at Parsons Brinckerhoff Engineers in San Bernardino, Calif. I have been working on the Los Angeles Rapid Transit system. My ad-

dress is 2442 Iowa Ave., #K-4, Riverside, CA 92507."

**Mary S. Klorer** writes: "I was recently promoted as Allen Bradley Company's marketing manager for the Department of Energy and NASA. Tim and I enjoy Wisconsin but find the winters difficult." Mary and Tim live in Milwaukee.

**John Morgan Morris** writes: "I received my Ph.D. in computer science from Georgia Tech. in 1989. My wife, Laurie, and I have two children, Shane and Susanne." Dr. Morris is an assistant professor at Georgia State University in Atlanta.

**Steven R. Schwartz** is a district sales engineer for Bussmann and works from his home in Bloomington, Ill.

**Gregory N. Steurer** died July 3, 1990 after an auto accident in Iron County, Mo. The Rev. Mr. Steurer was killed while on his way to work at the Doe Run Mining Co. in Viburnum, Mo. where he was a mining foreman and a member of the mine rescue team. He was also the pastor of the Mount Carmel General Baptist Mission in Arnold, Mo.

**Dennis J. Thebeau** and his wife, Christie, live in Tulsa where he is employed by Williams Pipeline Co. They have a three-year-old daughter. Dennis is district manager for Williams Pipeline Co.

**Diane (Dowlen) Underwood**, Dawson, Texas, writes: "Mark and I had our third child this past summer, Aaron Dowlen Underwood. Sister, Jeanette, 5, and brother, Jeremy, 3, were glad to welcome their new brother home. Mark and I still teach at Navarro College in Corsicana, Texas."

## 1982

**Richard M. Andriano** of Lee's Summit, Mo., together with his co-authors, was presented the Brass and Bronze Division's Best Paper award at the 94th Casting Congress of the American Foundrymen's Society in Detroit, Mich.

**Michael R. Beckmann**, Hales Corners, Wis., writes: "My wife, **Karen, '81, '89**, is still pursuing her M.B.A. and I am still pursuing more time for sailing, scuba diving, fishing, hunting, biking, etc. etc!" Mike is a chemist with PPG Industries in Oak Creek Wis.

**Brenda (Horak) Diaz** writes: "I am working on a contract basis for Exxon in Midland as a reservoir engineer. Rene' is waiting on the latest developments in Chevron's current 'reorganization'." Brenda and Rene' live in Midland, Texas.

**Kenneth P. Donnelly** writes: "In March my wife, Charlene, and I moved from St. Louis to the San Francisco/Oakland area. I joined Athena Management Engineers Inc., as manager of business development. My new address is 2715-D Oak Road, Walnut Creek, CA 94596."

**Mark Todd Ellis** writes: "I am attending Northwestern University on a part-time basis as a candidate for an M.S. degree in computer

science." Mark is a senior staff engineer for Reuters/Rich Inc. in Oak Brooks, Ill. He and Charmion live in Elmhurst, Ill.

**Kirk C. Foeller**, writes: "I am serving with the XVIII Airborne Corps. in Saudi Arabia with 'Desert Shield'." Kirk is a captain in the U.S. Army permanently stationed at Ft. Bragg, N.C. Susan lives in Fayetteville, N.C.

**Vicki S. Johnson**, Falls Church, Va., writes: "There have been big changes in my life recently. I'm now a senior program officer with the National Research Council, working with the Aeronautics and Space Engineering Board. Our office is in Georgetown."

**Jeffrey L. Keating**, St. Louis, reports that he is now with Kenneth Balk and Associates in St. Louis. Jeff and his wife, Kathleen, have a 13-month-old daughter, Melissa.

**Gary L. Marquart** has been awarded his M.B.A. degree from Maryville College in St. Louis. Gary is an electrical engineer for Union Electric. He and his wife, Karen, live in Cedar Hill, Mo.

**Douglas Alan Whitman** died July 1, 1990. Douglas graduated from UMR with a B.S. degree in computer science. While attending UMR he was associated with ACM and UPE. He was employed with Computer Associates as a software developer.

## 1983

**Joyce (Heirholzer) Foster** writes: "I am now working in the design division of the Missouri Highway and Transportation Department, Jefferson City, Mo., as the bid analysis management system analyst." She and **Ken, '79**, live in Holts Summit, Mo.

**David A. Gaskill** writes: "Gretchen and I have a new baby boy, Andrew Ian. We're looking forward to all the exciting times ahead." David is senior project engineer for Honeywell in Albuquerque, N.M.

**Ken John Kozlowski** writes: "Moved to Las Vegas in June of 1990. Our daughter, Danielle, will be celebrating her first birthday on Sept. 7, 1990. Wife, Adriann, has accepted employment with the Clark County School District as a seventh grade teacher." Ken is resident sales manager for CECO Corporation in Las Vegas.

**Curtis P. Meier, '83, '85**, writes: "I recently married Mary Rodwell, an audiologist at Olmsted Medical Group. We enjoyed a great honeymoon in Hawaii and are now living at 2420 30th Avenue NW #4, Rochester, MN 55901. I'd like to say hello to all my UMR friends. I'd like to hear from any of you!" Curtis is a senior associate programmer with IBM.

**Christopher W. Ramsay, '83, '85**, writes: "After three and one half years at the Colorado School of Mines in Golden we are glad to be back home in Missouri." Chris is an assistant professor in metallurgical engineering at UMR. He and **Darlene, '84**, live in Labadie, Mo.

**Geri E. Smith** writes: "**Larry, '75**, and I had our second daughter, Virginia, in January." Geri is with AT&T. Her husband is a teacher for Gary Career Center. They live in Kansas City, Mo.

**James V. Stevens** writes: "Karen and I just bought a new home on Lake Norman north of Charlotte. Our new address is 16225 Leeward Lane., Huntersville, NC 28078. Our telephone number is (704) 875-9642." Jim is a staff programmer for IBM in Charlotte, N.C.

**Raghu P. Terkonda** writes: "I completed an M.D. from the University of Missouri-Columbia School of Medicine. Currently a third year resident at Barnes Hospital/Washington University School of Medicine, St. Louis, specializing in anesthesiology."

**Darren L. Washausen** writes: "Stacia and I just had a baby girl, Britt Renae, on Sept. 28, 1990. Both wife and daughter are doing fine. My company's transition from Goodyear Aerospace to Aircraft Braking Systems has worked out very well." Darren and Stacia live in Massillon, Ohio. He is manager engineering product services.

## 1984

**Jeffrey W. Church** writes: "I was recently promoted to a CE III - Design Squad Leader with the Illinois Department of Transportation." Jeff and Cindy live in Collinsville, Ill.

**Mark W. Clauss** writes: "Hello, UMR cross country runners and alums. Sue and I are raising a dalmatian named Keighley. I am working for NCR, starting a new development and production facility. Sue works for DCA. Look for me in Business Week, April 30, 1990, issue, page 112 (surrounded by Georgia Tech and Clemson graduates not to mention a couple from MIT)." He and Sue live in Duluth, Ga.

**Joseph E. Crowe** writes: "A daughter, Danielle Elise, was born on Sept. 25, 1990." Joe and Cheryl live in O'Fallon, Ill. He is a civil engineer V-maintenance field engineer for the Illinois Department of Transportation.

**Kenneth R. Kohl** writes: "Still happily married with an 11 month old addition, Jason Lee. Keeping more than busy with work and home life." Kenneth and Monika live in St. Louis where Kenneth is a traffic engineer.

**James M. Ephraim** writes: "I received an M.B.A. from Pennsylvania State University in 1989. I accepted the position of assistant vice president of Modern Process Equipment Inc., a medium-sized manufacturing company in Chicago."

**Sheryl (Dillingham) Hull** writes: "We had another child, Joseph William Hull, born Jan. 14, 1990." Sheryl is a home maker. She, her husband, Dale, and family live in McGirk, Mo.

**Angela (Murch) Magruder** writes: "Tad (**Robert Tad Magruder, '84**) and I are still in Lansing, Mich. I will graduate from Michigan State University in March, 1991 with an EE degree. The kids are growing quickly:



Greg is 5 and started kindergarten this year. Kristin is 2 1/2."



**Rocky L. Owens** has been promoted to regional engineer in the Southeastern Region of Contech Construction Products Inc. Rocky is a member of the American Society of Civil Engineers

and is a professional registered engineer in the State of California.

**Patricia A. Peick** writes: "Visions non-stick skillets and saucepans are on store shelves, so my project in Akron, Ohio is finished. I have been transferred to the specialty materials division of Corning. I'm in Blacksburg, Va., working in the Celcor business." Patricia is a senior process engineer for Corning Inc.

**Darlene (Meloy) Ramsay** whose husband, **Chris, '83, '85**, is an assistant professor of metallurgical engineering at UMR, is with the Center for Business, Industry, and Labor.

**Mark Joseph Renne** writes: "We are the proud parents of a son, Kyle Steven, born July 20, 1990. He is our first child." Mark and Cheryl live in St. Louis where he is a structural engineer with Kenneth Balk and Associates Inc.

**David C. Stanfield**, who is an electrical engineer with A.C. Kirkwood and Associates, and his wife, **Heidi-Jo, '85**, are restoring an 82-year-old house at 3817 Campbell, Kansas City, MO 64114.

**Douglas L. Victor** has graduated from the Engineer Officer Advanced Course and has been promoted to the rank of captain in the U.S. Army. Douglas lives in Clarksville, Tenn.

## 1985

**James K. Carter** and his wife, Pam, are the owners and operators of Carter Computer Services at 1712 East Sixth Street in Washington, MO 63090. The computer services firm specializes in laser typesetting of resumes, but also performs a variety of computer services, including the typing of letters, reports and graphs.

**Jan M. Conci-Smith** writes: "Jared will be three in July and Jake turned one in March. They keep us entertained and busy." Jan, **Brent, also '85**, and the children live in Eddyville, Ill. She is a mine engineer for Kerr Mcgee Coal Corp. in Harrisburg, Ill. Brent is with AMAX.

**Sharon (Berger) Finger** writes: "Louis and I just had our first baby girl, Caitlin Frances, on Sept. 22, 1990. We just moved into our new home at 548 Heavens Drive, Mandeville, LA 70448. Louis is still with Halliburton Logging Services in New Orleans as division manager. I'm still working as a petroleum



*Class of 1985, First Row: Rob Lynn, Steven Lynn, Whitney Lynn, Terry Honaker, Ken Honaker, Stacy Honaker, Jerry Sanderson, Zachary Sanderson, Karen Sanderson, Catherine Hopkins, Sharri Riggs Hiller, Jeff Hiller, Mike Dobson. Second Row: Doug Mattingly, Joanne Mattingly, Kirk Lawson, Christa DeGonia Andrew, Paul Andrew, Greg Skannal.*

engineer for Graham Resources but am on an extensive leave of absence at this time."

**Sam P. Gladis Jr.** writes: "I'm working as a sales manager in the thermal products division of the Paul Mueller Company, Springfield, Mo. My wife, Laura, and I are having fun with our little farm house just outside Springfield, in Clever, Mo."

**Geoffrey O. Heberle** writes: "I moved back from New Jersey in December 1989. I am very glad to be back home!" Geoffrey lives in Chesterfield, Mo. and is a lead engineer for McDonnell Douglas Electronic Systems Co. in St. Louis.

**Sharri (Riggs) Hiller** writes: "After much studying and one long test, it is now Sharri Hiller, P.E. I have taken a new position, project management coordinator, with the Oklahoma Department of Transportation. I moved out of the 'field' and now work at the central office —had to buy a whole new wardrobe." She and Jeff, also '85, reside in Oklahoma City.

**Heidi (Swartzel) Hinck** writes: "John, '84, and I are enjoying our overseas tour in Holyloch, Scotland." John is a lieutenant in the U.S. Navy. The address for Heidi and John is FPO, New York, NY 09501-5210.

**Nancy (Elfrank) Nethington** was married to **Dennis R. Nethington, '72, '82, '85**, in December of 1985. Nancy is assistant manager for Greenleaves Manor Apartments in Mandeville, La.

**Heidi-Jo (Fluegel) Stanfield** writes: "Dave, '84, and I are working for A.C. Kirkwood and Associates. We are restoring an 82-year-old house at 8817 Campbell, Kansas City, MO 64114."

**Frank P. Verduco** writes: "Hello everyone. Things are going well with the new business. Just closed another deal and am already getting repeat business from my existing client base. I would like to say hello to Dr. Peter Ho. Also, to Bob, I'm looking forward to seeing you when I get out to California. Last, but not least, "Nick Wolf, where are you!?" Frank is president/owner of CPU Help Ltd. in Kansas City, Mo.

## 1986

**Suzanne (Manda) Alexander** writes: "I have just recently married Thomas J. Alexander from Cayuga, N.Y. Our current address is 9904 Slevin Drive, St. Louis, MO 63123." Sue is project engineer for Anheuser-Busch Company, Inc.

**Jimmie D. Bales**, Waynesville, Mo., writes: "My wife, June, and I had our second child, a boy named Jared." Jimmie is a civil engineer with the U.S. Army at Fort Leonard Wood, Mo.

**Henry R. Bredenkamp** writes: "I will finish another year of work in Turkey as of Oct. 1, 1990. I am interested in an engineering position elsewhere due to government cuts. Resume will be sent to interested parties. Please drop a note to Route 5, Box 926, Burlison, Texas 76028." Henry is presently

with General Dynamics-Ft. Worth Division as MRB/Liaison Engineering-International Programs.

**Suzanne (Black) Cunningham** writes: "Phil and I have been married for more than one year; life is wonderful!! God has really blessed our marriage. We are both going to school and beginning to get closer to getting those degrees. We need everyone's prayers for safe, successful shuttle launches at Kennedy Space Center." Susan is an assistant flight structures aerospace engineer with NASA.

**David F. Donovan** writes: "After a couple of years in the Peace Corps and another stint in Africa, I've come to New Jersey, of all places, because of —you guessed it—a woman." David is a geological engineer with Golder Associates Inc. in Mt. Laurel, N.J.

**David G. Dressel** writes: "Finally bought a house. New address is 2361 Sarthe Court, Maryland Heights, MO 63043." Dave is quality procurement representative for McDonnell Aircraft.

**Kent R. Erickson** writes: "Lisa R. Wilcox, '89, and I were married on Aug. 4, 1990. We reside in Overland Park, Kan. I graduated in May 1990 from the University of Kansas with a law degree and work for Litman, McMahon and Brown in Kansas City. Lisa works for Allied-Signal in Kansas City."

**Scott C. Sharp, '86, '88**, writes: "I am currently the systems engineer for Jetline Engi-

neering in Irvine, Calif. Before Jetline, I worked for Northrop on the B-2 bomber. I live in Newport Beach, Calif."

**Lawrence S. Tipton** writes: "Recently moved to 16372 Westboro Circle, Chesterfield, MO 63017. I am working as a programmer analyst in information systems at Barnes Hospital. In August I got engaged to Kathy Sanburn of St. Louis. We are busy planning our June '91 wedding."

**1987**

**Jeffrey L. Behm** is a programmer/analyst I for Peabody Holding Co. in St. Louis. He and his wife, Carrie, live in St. Louis.

**Scott A. Berger** writes: "I am a programmer/analyst for Professional Computer Associates in St. Joseph. We specialize in single and multi-user systems design and implementation on PC's and local area networks. I'd like to hear from you. Write me at 1501 N. 36th, Apt. 4, St. Joseph, MO 64506."

**Robert C. Fritz** writes: "I am working as a field engineer for J.S. Alberici on a dewatering and drying facility for M.M.S.D. in Milwaukee, Wis." Robert and Pamela live in Oak Creek, Wis. .

**William V. Giannobile** writes: "I recently got married to Angela Rotar of Rolla. I am completing my final year at the University of Missouri School of Dental Medicine in Kansas City."



**S. Keith Hargrove** writes: "I am pursuing a Ph.D. degree in industrial engineering at the University of Iowa. My current address is 412 Sixth Ave. #3, Coralville, IA 52241."

**Robert G. Holt**, Burnsville, Minn., writes: "I'm still working in Minneapolis, Minn. for Rosemount My new rage is ice fishing." Robert is a control systems engineer for Rosemount.

**Kim A. Ie** writes: "I transferred from the Baytown Refinery in Texas to the Bayway Refinery in New Jersey. I am one of four Exxon project engineers at the plant." Kim lives in Edison, N.J.

**Kevin J. Jacobsmeyer** writes: "I got married on August 11th to Cheryl Hazelwood and we are living in Maryland Heights. I'm working as chief estimator at C. Rallo Contracting in St. Louis. I enjoy seeing the old gang from Rolla now and then and we both look forward to the weekend trips to the lake or wherever with them all."

**Todd G. Wagner, '87, '89**, writes: "My wife, Jenell, and I moved to Springfield (Mo.) in May. I'm working out of E.T. Archer's Springfield office which has grown to offer full engineering services with a staff of six.

Also, in May we had baby girl, Bethanie Kristin."

**1988**

**Andrea (Cairns) Foust** writes: "I got married on Aug. 11, 1990, to Duane Foust." Andrea is an engineer with Dynetics Inc. in Huntsville, Ala. and lives in Madison, Ala.

**Mark A. Hewlett** writes: "I married **Kelly Keran, '89**, in May 1990. I am a process engineer for Hoechst Celanese and Kelly is a process engineer for Phillips 66 Co. Our home is in Lake Jackson, Texas. There are approximately 15 UMR graduates here—all arrived within the last four years."

**Steven W. Miller** writes: "I work now for the Illinois Environmental Protection Agency in Springfield, Ill." Steven and Amy live in Springfield.

**Jerald W. Robbins**, Kinderhook, Ill., writes: "Doing well with the Illinois Department of Transportation ." Jerald is Civil Engineer I with IDOT.

**Curtis M. Schroeder** writes: "Yes, it is difficult to believe, but I am in my eighth and last co-op term at McDonnell Douglas. What an experience it has been working in eight different departments during the last five years. I am about one-third finished with my master's." Curt lives in Jennings, Mo. and is a graduate co-op with McDonnell Douglas in St. Louis.

**Cordell E. Smith** writes: "I am back in school, this time at UMC (gasp, cringe) to get a master's in accountancy." Cordell makes his home in Napton, Mo.

**Melissa S. Warfield** writes: "After teaching two years of high school math in Cedaredge, Colorado, I am heading back to school later this year. I will be entering graduate school at the University of Northern Colorado. I can be reached at 3203 Baltimore Ave., Pueblo, CO 81008, telephone 719-542-5525."

**1989**

**John M. Barr** writes: "I married **Nancy Butler, also '89**. We are in graduate school at UMR." The Barrs live in Rolla.

**Kurt J. Carraway** is a second lieutenant in the U.S. Air Force stationed at Mather AFB, Calif.

**John P. Harris** writes: "I was married March 24, 1990, to Mary Ann Buchanan of Springfield, Mo. We work and live in the Springfield area." John is an engineer II for the City Utilities of Springfield.

**Kelly (Keran) Hewlett** is a process engineer for Phillips 66 Co. Her husband, **Mark A., '88**, is a process engineer for Hoechst Celanese in Bay City, Texas. The Hewletts live in Lake Jackson, Texas.

**James R. Reed** writes: "I'm working for Empros Systems International which makes computer control systems for electric utilities. For the past year I have been writing

communications software and will be traveling to Venezuela this fall to install the system." James now resides in Springfield, Mo.

**Robert M. Ruble** writes: "Proud to announce the birth of our daughter, Jennifer Michelle, on March 7, 1990." The Rubles live in Marshall, Mo. where Robert is an intermediate construction inspector for the Missouri Department of Transportation.

**Lisa Wilcox** was married to **Kent R. Erickson, '86**, on Aug. 4, 1990. Lisa is an electrical engineer with Allied-Signal Aerospace Co. in Kansas City, Mo. and Kent is an attorney with Litman, McMahon and Brown. Kent and Lisa live in Overland Park, Kan.

**1990**

**Susan Lynn Evanson**, Ashville, N.C., writes: "Hi everybody! Work is going great. The Forest Service is involved in a wide range of civil engineering activities so I'm getting good experience." Susan is a civil engineer with the U.S. Forest Service.

**Daniel E. Jackson** writes: "After September 15 I will be attending the University of Minnesota-Twin Cities to get a Ph.D. in chemical engineering. My address will be: Middlebrook Hall, 412 22nd Avenue S., University of Minnesota, Minneapolis, MN 55455-0424. My permanent address will still be: 1476 Harness Road, Festus, MO 63028."

**Angelia S. Honse, '90** writes: "I would like to thank the Alumni Association for all their support while I was attending UMR. The Alumni Association gave me a total of \$8,000 while I was at Rolla. Now, I'm in the working world and will repay the 25% or \$2,000 that I owe. Since I'm finally an alumna, I would like to help this organization that I know does so much for the students. Thanks again for your help and keep up the good work!" (And thank you, Angelia.) Angelia is a program engineer for General Electric living in Fairfield, Ohio.

50 Year  
Class of 1941

Golden Alumni Reunion  
at Commencement

May 9-11, 1991

For information contact:  
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MSM-UMR Alumni Association  
 University of Missouri-Rolla  
 Rolla, Missouri

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**On the cover...**

Representing the classes of 1965, 1940 and 1985...Gerry Stevenson, Bob Klug, and Christa DeGonia Andrew gather around the Alumni Light during Homecoming Weekend at UMR. They were among the 1,000 alums returning for the fun October 12-13.

(Lower right) Victoria Scammacca, a senior in electrical engineering from Lee's Summit, was chosen 1990 Homecoming Queen.

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*50*  
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