



Missouri S&T Magazine, Winter 1995

Miner Alumni Association

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A PUBLICATION OF THE MSM-UMR ALUMNI ASSOCIATION

**MSM-
UMR**

ALUMNUS

WINTER 1995

VOL. 69, NO. 4

**THE GI BILL:
A Social
Revolution**



UMR:

Missouri's

Quality

University



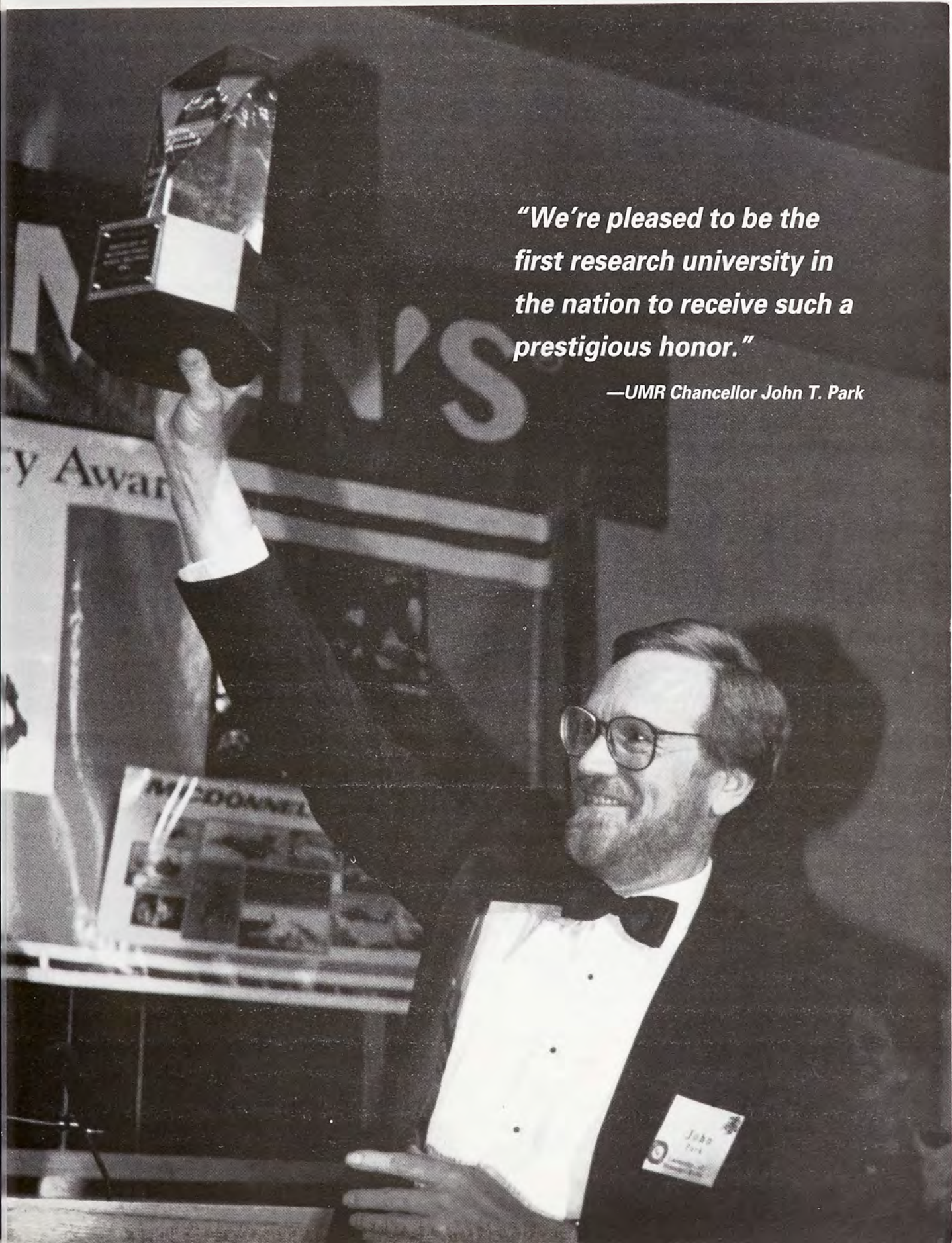
When UMR began its move toward total quality management four years ago, it was one of the few campuses in the nation to take many of the TQM principles to heart. Even fewer campuses took the next step, which was to use the Malcolm Baldrige National Quality Award as the standard for measuring university programs and processes. Although the Baldrige program is the most prestigious quality program in the nation, few schools want to take the time to work through its rigorous—and often tedious—criteria.

But UMR did, and the effort has paid off.

On Thursday, Oct. 26, UMR became the first university ever to receive the Missouri Quality Award.

"We're pleased to be the first research university in the nation to receive such a prestigious honor."

—UMR Chancellor John T. Park



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Missouri Quality Award

The Missouri Quality Award is patterned after the national Baldrige award. In fact, UMR and the other organizations that applied for the 1995 Missouri award were actually using next year's Baldrige criteria.

"We're pleased to be the first research university in the nation to receive such a prestigious honor," says UMR Chancellor John T. Park.

Park adds that UMR submitted its MQA application to get an outside opinion of its processes.

"When we submitted our application for the Missouri Quality Award, our goal was not to win the award but to get an outside evaluation of our internal processes, to see how well we are serving our students, alumni, industry and other stakeholders," Park says. "We wanted to get the feedback of people in the business sector.

"Winning the award, however, is a pleasant outcome of this entire process."

The award comes four years after the campus started using TQM techniques to measure how well it serves its students, alumni and the broader public. The campus has used the Malcolm Baldrige National Quality Award standards as a means to measure performance in a variety of areas.

The standards are designed to gauge an organization's leadership, use of information, planning, staff development, quality assurance, measurement of processes, and customer focus.

"Not very many campuses are willing to go through this rigorous and time-consuming process," says Park. "But it's a self-assessment worth do-

ing to promote quality in higher education.

According to the Office of Quality Programs at the National Institute of Standards and Technology, which tracks state quality awards, no other public research university has won such an award.

But several states offer quality awards, according to John Politi, president of the Excellence in Missouri Foundation, which sponsors the Missouri Quality Award. "There are about 25 states, including Missouri, that have award programs patterned after the Baldrige model, and to my knowledge UMR is the only public research university to win a quality award of this caliber," Politi says.

Missouri Gov. Mel Carnahan presented the award to UMR during the Excellence in Missouri Foundation's Third Annual Missouri

Quality Conference. The meeting was held in Jefferson City.

Previous winners of the Missouri Quality Award include Wainwright Industries of St. Peters, Mo., a 1993 winner that went on to win a Malcolm Baldrige National Quality Award in 1994. Perhaps UMR will become the first university to win the Baldrige next year. That is when the national award, established in 1987, will be open to colleges and universities.

■ Andrew Careaga



Celebrating UMR's achievement of becoming the first university to receive a Missouri Quality Award are, from left, John Politi, president of the Excellence in Missouri Foundation; Missouri Governor Mel Carnahan; UMR Chancellor John T. Park, receiving the award for UMR; Chief Executive Officer of Saint Luke's Hospital, Richard Hastings, receiving the award for Saint Luke's Hospital; and Steve Ditter of McDonnell Douglas, recipient of the 1995 Governor's Quality Leadership Award.

ing, because it gives you an objective look on how your organization is meeting its stated goals."

UMR uses the Baldrige criteria for planning purposes as well as for examining the campus' processes for serving students and other "stakeholders"—such as alumni, the public and the businesses that hire UMR graduates.

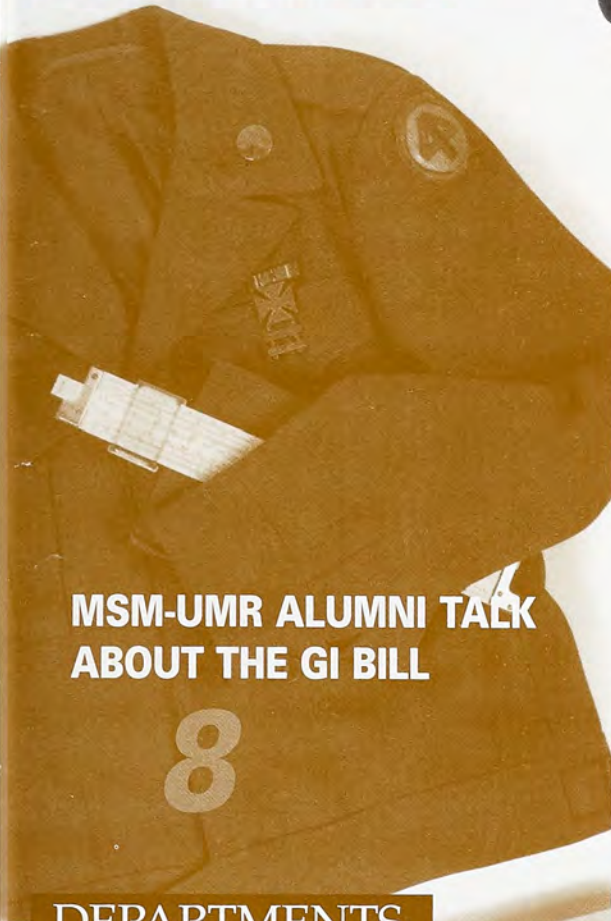
The campus has submitted Missouri Quality Award applications for the past two years, and also is working with the National Institute of Standards and Technology to create a Baldrige cat-

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LETTERS TO THE EDITOR



REFLECTIONS ON WWII

The Summer 1995 Reflections on WWII [page 14 of the Summer MSM-UMR Alumnus] by Daniel P. Rice prompts a question. Mr. Rice was shot down, presumably in the B-24 *Strawberry Bitch* which he had delivered to the 376th Group. However, your Air Force museum photo shows a B-24 named *Strawberry Bitch*. Was Daniel P. Rice flying a different airplane than his *Strawberry Bitch* or is the airplane at the Air Force museum a recreation of the original *Strawberry Bitch*?

Milt Woodham, EE '57

The aircraft pictured in the photo is the original *Strawberry Bitch*. The *Strawberry Bitch* was flown to Benghazi Sept. 16, 1943, where it flew combat until November 1943. It was then moved to San Pancrazio, Italy, for further combat flying. After being badly damaged by enemy fire power, the *Strawberry Bitch* was grounded for repairs. Eventually the aircraft was sent to Tucson, Ariz. In the mid-1950s it was rebuilt and flown to Dayton.

The aircraft Rice was flying when he was shot down was called *The Sad Sack*. *The Sad Sack* was part of the 512 squadron of the 376th's B-24 heavy bomber group and smashed to pieces in the Alps after Rice and his crew ejected from the aircraft.

(The above information was provided by Wright-Patterson Air Force Base in Dayton, Ohio, and Daniel P. Rice.)

Are You



A Leader in Government or Public Service?

See pages 62-63 for details.

MSM-UMR ALUMNUS

Mission of the MSM-UMR Alumnus magazine

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

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From GI Joe ...

to Joe College



Harold M. Telthorst

"The GI Bill was the greatest social legislation ever passed by the United States Congress. No other law before or since has so profoundly affected my life."

—Harold M. Telthorst, CE'49, of Topeka, Kan.

How the GI Bill of Rights, a "minor" piece of legislation, changed Miner education

■ Dick Hatfield

As World War II ended in 1945, a new era for educational opportunities in the United States was about to begin.

Thanks to the GI Bill of Rights, signed into law by President Franklin Delano Roosevelt in 1944, about 1.5 million veterans returning from the war swelled the populations of college campuses across the nation in the fall of 1946.

The GI Bill put money for college directly into veterans' hands for their own use, and it made it possible for many middle-class Americans to afford a college education and to better themselves from the depression years before the war. Although it was considered a minor piece of legislation at the time, the GI Bill's impact on higher education, and American society, has been tremendous.

"The GI Bill was a godsend for me, as I received 100 percent of my education through it," says **Charles R. Remington**, ME '49, '50, a professor emeritus of mechanical engineering who retired from UMR in 1989.

Remington was a first-semester freshman at MSM in 1943 when "I was drafted right out of school to enter the Army."

Remington served in the Army from 1943 through 1945 before coming back to MSM on the GI Bill in the fall of 1946. "All of my fees and books

were paid for and I also received an allowance of \$65 a month for four years," Remington says.

Remington was part of a record 2,565 students—1,800 of whom were veterans—to enroll at MSM that fall. The swell of students overflowed classrooms, laboratories and student housing facilities.

In "UM-Rolla: A History Of MSM/UMR," **Jack B. Ridley** and **Lawrence O. Christensen**, UMR distinguished teaching professors of history, explain that many of the returning GIs had families—a factor which compounded the housing shortage.

The campus responded by transforming the physical plant and class schedule:

- Fourteen Army barracks were brought over from Fort Leonard Wood and used for student housing, temporary classrooms and warehouses. The last of these "temporary" buildings—T-11—was razed only within the last year.

- Classes and labs were held from 7 a.m. to 10 p.m., Monday through Saturday.

- Mechanical Hall, which in the past was often used as a warehouse, became home to the mining engineering department.

- The Missouri Geological Survey, housed in the Rolla Building, was moved off campus to make way for

MSM-UMR ALUMNUS

the new humanities-social studies department.

- A portion of the chemistry building, "Old Chem," was converted into classrooms.

- The U.S. Experiment Station of the Bureau of Mines was moved off campus, and the ceramic engineering

"No other law before or since has so profoundly affected my life."

After serving in World War II, Telthorst married and returned to Rolla, earned his bachelor of science degree in civil engineering, and then "spent 40-plus years in a career that I loved."

"I directly attribute my success as an engineer to the GI Bill and my Rolla education," he says.

"I spent six years, three months and 12 days in the service," says **A. Daniel Fentzke**, CE'49, of Daytona Beach, Fla. "The GI Bill and MSM made whatever degree of success I have had possible. ... One's service to his country is an acknowledgement of the duties that accompany every right."

For **Jack L. Painter**, CE'50, the GI Bill was like a scholarship.

"It was full-ride—paid all books, tuition and \$75 a month," he says.

Painter, who lives in Rolla, enlisted in the Navy as a senior in high school, enrolled at MSM the summer after graduating from high school in 1943, and was called to active duty a short 10 days later.



Randall (Max) McClure, PetE'56, of Ruston, La., a Korean War veteran.

The Army barracks at MSM were home to many students in the post-World War II years.

staff moved into the building that formerly housed the Experiment Station (now Fulton Hall).

- A garage behind Mechanical Hall was transformed into a cafeteria—what in recent years was called the "Old Cafe."

The GI Bill of Rights caused not only a true social revolution, but also one on a scale compatible to the Industrial Revolution, according to "The Law That Worked," by Michael J. Bennett, author of the book "The Untold Story of the GI Bill of Rights."

"The GI Bill—and the enthusiastic response to it on the part of America's veterans—signaled the shift to the knowledge society," Bennett says.

Many Rolla alumni agree with Bennett.

"The GI Bill was the greatest social legislation ever passed by the United States Congress," says **Harold M. Telthorst**, CE'49, of Topeka, Kan.

fore being recalled to active duty in the Navy when the Korean conflict began. After his retirement from the Navy in 1969, Painter worked as an environmental engineer for the Missouri Department of Natural Resources. He later worked as a volunteer in UMR's Alumni Office.

The World War II GI Bill gave returning veterans control over their educations, instead of the colleges and universities. The veterans, however,

had to meet a university's academic standards to be accepted.

Through the years, the GI Bill has evolved from a number of variances, including the Korean Conflict GI Bill, the Post-Korean and Vietnam Era GI Bill, the Veterans Educational Assistance Program (VEAP) and, most recently, the Montgomery GI Bill-Active Duty (MGIB). But the goals of those variances remain the same for the individual veteran.

"Because of the GI Bill I was able to continue my education and receive a degree," says **Randall (Max) McClure**, PetE'56, of Ruston, La., a Korean War veteran. "I am proud to have served in the Korean campaign and to have obtained my petroleum engineering degree from MSM-Rolla."



The World War II Bill of Rights was introduced in the House of Representatives on Jan. 10, 1944, and to the Senate on Jan. 11. It was passed unanimously by both houses of Congress on March 24 and May 18, respectively.

Its passage changed the face of higher education in this nation. According to the Department of Veteran Affairs:

- During the late 1930s, about 160,000 U.S. citizens graduated from college each year, but by 1950, that figure increased to about 500,000 graduates per year, thanks in large part to the GI Bill.

- After World War II, in 1947, 49 percent of college students were veterans.

- About 21 million veterans have received GI Bill education benefits.

- Total cost of the World War II GI Bill education program is \$14.5 billion.

- During the lifetime of the average veteran, the U.S. Treasury receives about two to eight times more in income taxes than it pays out to that veteran in GI Bill education benefits.



In their own words: MSM-UMR ALUMNI TALK



Kenneth W. Schoeneberg,
CE'44,'48
Elgin, Ill.

After accelerated junior and senior years (1942 and 1943) and being in advanced ROTC at MSM along with enlisting in the Army, a group of us graduated in January 1944. ...

In late 1946 I returned to Rolla for a visit and to check on the GI Bill with thoughts of taking refresher courses. Dean Curtis Wilson suggested a master's degree in CE. So during 1947, under the guiding hands of "Skip" Carlton and department chairman Joe Butler, I worked toward the M.S. degree in civil engineering. Not only that but another thing happened during that year at Harris Hall. I dated and fell in love with the secretary of the civil department. Reluctantly Joe Butler passed me for graduation with an M.S. degree because in doing so, he lost his secretary, Margaret Linville. I graduated in January, Margaret and I were married in February, and I started working for the Frisco Railroad on March 1, 1948.

What a very happy ending to those years.



*K.W. Schoeneberg,
Okinawa, 1946*

Harold M. Telthorst, CE'49
Topeka, Kan.

The G.I. Bill was the greatest social legislation ever passed by the U.S. Congress. No other law before or since has so profoundly affected my life.

I was a young man in the early 1940s. I had grown up in St. Louis in a working-class family and was determined to earn a college education. My plan was to alternate work and school on a yearly basis. During my work years I could earn \$25 a week.

As happened to most men my age, the war disrupted my plans. Joining the Army in 1942, I began a series of assignments and experiences that forever would define my notions of duty, service and patriotism.

By the spring of 1945, I was a B-17 tail gunner based in England. I knew the war was ending, and, for the first time in years, I thought of returning to Rolla. I had several concerns. How would I fund the remainder of my education? Would there be jobs for all the returning veterans? Could colleges accommodate the flood of eager applicants?

Then one day it was announced that returning veterans would be eligible for certain benefits through new laws passed by Congress. I cannot express my excitement upon learning

that education would be one of those benefits. Receiving a month of schooling for a month of service, including books, tuition, and living expenses, was like manna from heaven.

After the war, I married, returned to Rolla, and earned a B.S. in civil engineering. I then spent 40-plus years in a career that I loved. I directly attribute my success as an engineer to the GI Bill and my Rolla education.

The GI Bill enabled me to provide my family a standard of living far in excess of my parents' most ambitious dreams. Through increased earning power, I paid income taxes back to the United States, far in excess of the cost of my education. Most important, the GI Bill enabled me to demonstrate those ideas of duty, service and patriotism as an educated leader in my community.



*Harold Telthorst
in 1945 and 1989*

Walston Chubb, MetE'48,'49
Murrysville, Pa.

The GI Bill supported my attendance at MSM from the fall of 1946 until the summer of 1949. ...I was drafted into the Navy on July 13, 1944. I graduated from Navy schools as an electronic technician's mate third class and was sent to the Pacific island of Guam for seven months. I was discharged on June 8, 1946.

During the school year of 1948 to 1949, I worked for my master's degree under the additional sponsorship of the Ludlow-Saylor Wire Co. Fellowship. The same year I was nominated to membership in the honorary society, Sigma Xi. ...The MSM department of metallurgical engineering has established a graduate fellowship in my name called the "Fellowship for the Study of Materials Behavior at High Temperatures."

For all this we can thank the GI Bill. I would not have been able to attend MSM without its support.



*Left: Walston Chubb at MSM
in 1949, and 40 years later.*



ABOUT THE GI BILL



James E. Bell, ME'49
Springfield, Ill.

I served in the Navy during World War II and after being discharged in 1946 started looking for a college to attend. Since I had received college credits while in the Navy I was re-entering school as an upperclassman. In addition I was married and required married student housing.



In 1947 while attempting to find a college that would have room for me, I received a letter from a Navy friend advising that he was attending MSM, liked it very much, and stated they were accepting students in my situation. My wife and I visited the campus and were impressed with the school and the programs and determined we would need a mobile home for our housing.



James Bell in 1947 and the trailer he lived in while attending MSM.

We arrived in Rolla with our trailer in May 1947 and established residency at the Winters Trailer Court along old U.S. 66. Approximately 10 other GI Bill students had mobile homes at this location. ...As a part of the GI Bill program we received \$90 per month as a subsistence allowance for married students.

Our first daughter was born in Waynesville while we were attending MSM and then our subsistence allowance was increased to \$105 per month. Does not seem like much today but we survived.

Being anxious to graduate and enter the work place, I along with most of the other GI Bill students carried approximately 22 semester hours of work and attended all summer terms. ...

Started work with U.S. Gypsum immediately after graduation. After three years ... returned to Illinois and went to work for the Illinois Department of Transportation and after 36 years with IDOT I retired in 1987 and now enjoy retirement life and visitation with our three married daughters and four grandchildren.

Jesse W. Bowen, EE'49
Dent, Minn.

I attended MSM on the GI Bill. That was probably what made it possible and I owe a debt of gratitude to the GI Bill. ...

I was in the ETO in World War II for 26 months. I wanted further education but didn't know how to go about it. Tom Davis, my communications officer, worked closely with me and inspired me to go to school. I applied to MIT from overseas and was accepted for admission providing I made up a course in solid geometry. I was discharged from the Army Air Corps in November 1945. I immediately enrolled in Southwest Missouri State College in Springfield, Mo. Although solid geometry was not offered at that time I thought that I would get some credits that could be transferred and that would lead to an engineering degree.



Jesse Bowen and his jeep during WWII and, right, in the late 1950s.



The fellow I enlisted with was out too, and we met our wives-to-be at a bowling alley. I told Velma that I had no intention of marrying anyone, that I was going to MIT. She told me that she had no intention of getting serious either. That was well and good but in the coming weeks I changed my mind! I decided that I could get my necessary pre-engineering credits at SMS and then transfer to Rolla. We were married on Thanksgiving Day, Nov. 28, 1946, and we are still together. ...After taking my pre-engineering courses at SMS, I transferred to Rolla. We couldn't find a suitable rental place so we bought a small house next to Ted Planje (CerE'40, '50, former professor and chair of ceramic engineering and director of the School of Mines and Metallurgy). ... I especially remember Professor (Rolfe) Rankin (CE'27), mathematics, and I.H. Lovett (EE'24), who was head of the EE department. After I got an interview in St. Louis, I went to work for Allis-Chalmers in Milwaukee on the 18-month graduate training course. The rest is history but the GI Bill helped me get a start.

(Continued on the next page)



Due to space limitations, we were unable to use all of the GI Bill stories we received. Thanks to everyone who responded to our request!

—The Editors





David Wisdom, CE'49

Gary, Ind.

After nearly a five-year stint in the Army during the war, I was discharged in October 1945, along with a large host of veterans. My old job was available with the same old boss and the exact same salary from 1940. I wanted something better.

I ... travelled to Rolla via a Trailways bus, arriving in January 1946. I soon discovered that finding a place to live was going to be the hardest thing about going to Rolla, as there were no student dormitories anywhere. Eating facilities were available at either the old Engineers Club on 12th Street or at Mrs. Perry's at the corner of 12th and Pine.

The GI Bill was wonderfully simple. Books, fees and all costs were paid for without a problem. Bachelors received a monthly allotment of \$75. Married students received \$90, so a wife was worth \$15 a month.

The ex-GI was a different breed of student as compared to the pre-war student. We were older, more mature, some with wives, some with families, and anxious to graduate so that we could get on with our lives. ...The GI Bill was probably one of the best programs ever promoted by the U.S. government, and should be recognized for the benefits provided to my generation.



A. Daniel Fentzke, CerE'49

Daytona Beach, Fla.

Originally in the class of '43, I left MSM in '41 and petitioned my SS Board, was reclassified 1A, and volunteered for the Army Air Corps. My ROTC at MSM made basic training tolerable. After basic and technical training command schooling my squadron shipped on HMS Queen Mary and joined the 8th Air Force "somewhere in England." As NCOIC, responsible for structural repairs, I spent 2 1/2 years with the service and bomber commands of the "mighty 8th."

...I spent 6 years, 3 months and 12 days in the service (3 years inactive). The GI Bill and MSM made whatever degree of success I have had possible. One's service to his country is an acknowledgment of the duties that accompany every right.

Lewis L. Wargo, ME'50

Huntsville, Ala.

I earned my rights to the GI Bill by serving in the Army Air Corps during World War II from April 1942 to October 1945. I was pilot of the heavy bomber, the B-17 (the "Flying Fortress"). I flew 50 missions out of North Africa and Italy from July of 1943 to March of 1944.

I was separated from the service in October of 1945.

I attended the Junior College of Connecticut in Bridgeport, Conn., for my first two years of college and then transferred to MSM for my junior and senior years. I never once regretted having chosen MSM for my college education.



Above, Lewis Wargo, home from combat, late 1944, and today.



Curtis Webster acting as barber after the regular barber had acquired enough service time to return to the States. Webster paid \$10 for the barber's equipment.

Curtis C. Webster, Phys'50

Oak Ridge, Tenn.

Because of my military service I attended MSM on the GI Bill and received my master of science degree with a major in physics on July 29, 1950. ... I often, jokingly, say that I'm a slow learner. I started college in 1940 but I didn't graduate until 1947; however, three years of that time the U.S. government paid for my room, board and transportation around the Pacific (a lot of the time my room was just a tent).

Robert M. Ponder, PetE'50, '52

Tulsa, Okla.

After the war was over, I was sent to Clark Field near Manila to await orders to return to the states. Since there was a lot of air traffic between the Philippines and Japan, a decision was made to send a flight crew on a temporary basis to Laoag on northern Luzon. Different crews were assigned on a weekly basis. The week my crew was sent to Laoag, a decision was made to establish a regular flight based at

Laoag, so my one-week assignment turned into 14 months.

I returned to the states in late fall of 1946 and my status was changed from active duty to reserve duty. Began attending college on the GI Bill in January 1947 at Wisconsin Institute of Technology in Platteville, Wis.

Transferred to Rolla after two years at Platteville. Received a BS in 1950 and taught beginning courses in petroleum engineering while working on an MS in 1952.

Sweated out being recalled to active duty for the Korean conflict because others with my MOS numbers were being recalled. Lucked out and was not recalled because my records were temporarily misplaced when I transferred to Rolla. They were shipped from Chicago to a base in Florida when they were supposed to be shipped to St. Louis. That snafu was to my advantage.



Robert Ponder, after graduating from navigation school, and today.





Larry Cantwell, CE'50

Wever, Iowa

I served in the Navy in 1945 and 1946, aboard the USS Comstock. ...

My wife is the former Josephine (Jo) Tyler and a Rolla native I met while in school at MSM. We both loved to dance and (a bit of nostalgia) can remember some good times, after hard studying, at the Sunset Club east of town on Route 66 and Hillside, west of town. Then, more nostalgia, there were the St. Pat's dances: the bands of Ted Weems and Bensey Strong, I believe, in 1948 and 1949, respectively. ... The GI Bill program was a wonderful opportunity for many of us.



Larry and Jo Cantwell in 1948, and today.

Walt Hampson, ChE'50

It was quite a challenge getting through to a degree with a minimum of time and dollars. I remember 23 hours a semester study loads plus lab assistant plus ROTC plus a family addition in my senior year—a fairly tough hill to climb. The GI bill was most appreciated—wouldn't have made it without it. ...

I was fortunate in the service—trained in Texas to blast the enemy from pillboxes, etc., in the North Pacific and Japan. Truman ordered the atom bomb dropped which, no doubt, saved my life (about 85 percent casualties in the flamethrower troops). Then I was shipped to Italy in '45 till January 1947 (5th Army).



Gerald Bellis in the Army and today.



Gerald B. Bellis, CE'51

Bullard, Texas

When I was 14 or 15 I had decided I wanted to be a civil engineer. However, I had no idea how I could obtain the required education, since my parents were not financially able to send me to college. When I graduated from high school in 1946 several of my high school friends suggested we join the Army. At that time the Army was anxious to obtain recruits in order to replace a large number of veterans who were still overseas. As an inducement, the Army offered 18-month enlistments, which would earn 18 months of the GI Bill. I saw this as my answer to how I could go to college. I and nine of my friends enlisted for 18 months. I spent 13 months in Korea with the occupational forces. When I was discharged, I attended one semester at St. Joseph (Mo.) Junior College. The next fall, 1948, I enrolled in the Missouri School of Mines. In September 1949 I was married to Mary King and we moved to Rolla. Mary was the cashier for MSM until I graduated in May 1951. I will always be grateful to the GI Bill for enabling me to obtain my civil engineering degree.

Robert T. Rose, CE'51

Ottawa, Ill.

Bob Rose



If it had not been for the GI Bill, I would not have been able to attend college, and later to purchase my first home.

In 1945 I was discharged from the Army Air Corps after serving my stint in the service for 18 months. I attended Shurtleff College, Alton, Ill., for one year, and then came to MSM for the rest of my college education. At that time boys outnumbered the girls on campus by 64 to 1. I still remember the housing in the barracks building—hot in summer, cold in winter. Each night at 9 p.m. we broke from our studies for a game of bridge and black coffee, then turned back to the books for more study.



Mary and Bob Rose

C. Dudley Blancke, MGeo'51

Hot Springs, Ark.

When I got to MSM it was back into barracks because of the influx of veterans. I played varsity football so was able to live in the old Jackling Gym. Nothing fancy but fun and the price (free) was right.

There was little if any hazing because the older and more worldly veterans didn't put up with it. I was fortunate to find a Navy buddy from Rolla and spent a lot of time with his family.



C. Dudley Blancke

(Continued on the next page)





Harold Crane, then and now.



Harold R. Crane, CE'53
Hannibal, Mo.

John B. Nolan, CE'52
Springfield, Ill.

Drafted on March 18, 1941, I was one of the first to be called from the Little Rock area. Having had previous experience with surveys, maps and plans, I was fortunate to have openings into engineering assignments throughout my service. ...After being discharged I returned to survey work. In the summer of 1949, while working in South Dakota as USGS topographers, the late J.D. Roetzel (CE'51) and I decided to return to school under the GI Bill. He enrolled in MSM as a junior that fall and I returned to Little Rock to consolidate my sophomore credits before entering MSM as a junior the following fall. Encouraged by professors Joseph Senne, CE'51, Kent Roberts, "Skip" Carlton, Clifford Eshbaugh and others, I majored in structures and graduated in 1952 with a BSCE.

While living in Rolla, I roomed with James and Mamie Rydeen of the USGS and boarded at the Engineers Club. I had a wide range of friends from the survey and through participation in activities of the First Christian Church, where I met and married my late wife, Maxine Paulsell. After nearly 41 years of marriage, Maxine died Sept. 8, 1993. Structural engineering has been a

challenging, productive and rewarding discipline. I am grateful for the GI Bill, many individuals, opportunities and events which have helped me along the way. I will always be indebted to MSM for providing a groundwork of fundamentals and direction to serve me for this experience.



Above: John Nolan, third from left, was quartered with this Belgian family during the Battle of the Bulge. Left: John Nolan today.

Albert J. Moellenbeck, CE'60
Santa Fe, N.M.

I completed my tour of duty in the Navy, served one year-plus in the states and two years-plus in the Panama Canal Zone. ...

After my separation (in those days you didn't get discharged until you served seven years) in August of 1955, I wanted to take advantage of the GI Bill for education and thought engineering was as good a choice as any.

I came down to Rolla and enrolled with much help from the very friendly staff. Joined a "food club" and got a room close to campus. Later I joined Sigma Tau Gamma.

Had it not been for the GI Bill I would not have even seriously considered university study.

I have been very successful (financially) in the engineering business that I founded and later sold. Based on the taxes I paid to the government, it appears that they got back their \$110 a month investment with a substantial dividend.

I started at the School of Mines in 1948 using an allotment of GI benefits from World War I. My father was in World War I and was killed in a car wreck in the early 1930s. The GI allotment provided for education of dependents until age 21 or marriage. I received \$21.60 a month, which came to \$259.20 a year—a good amount at that time. Had this not been available I probably would not have been able to get a college education. After school I spent time in the service during the Korean War.

Randall Max McClure, PetE'56
Ruston, La.

In 1952 I entered the Korean campaign as a private serving in the Army infantry. I served in Korea until the truce was signed and returned home as a sergeant. (My service in the military was an education in itself.)

Because of the GI Bill I was able to continue my education. ... Following my graduation, I worked for the California Co. for eight years before receiving a debilitating injury. ...

Life sometimes throws us curves but our attitude can help us deal with them. Even with the disappointments connected to my disability, I am proud to have served in the Korean campaign and to have obtained my petroleum engineering degree from MSM-Rolla.

Martin Wuenschel, EE'61
Bridgeton, Mo.

My GI Bill monthly stipend was \$110 a month. With this amount I paid for my room and board and \$33 car payment. My room on North Cedar Street was \$20 per month and my meals at the Prospectors Club were no more than \$40. I paid for my laundry and some snacks. The club was open all night for milk or other drinks. ... We ate, went to class and studied with no recreation but intramurals and St. Pat's Week. The most females on campus were seven the last semester. We imported women for the two dances from all-girls colleges. We did attend all college sports. The competition between frats and the eating clubs was intense to say the least.



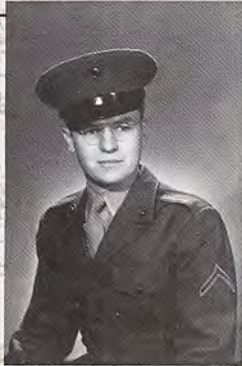
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James Becker in uniform and today.



James R. Becker, ME'56

Houston, Texas

I attended MSM on the GI Bill from September 1954 through June 1956. I was married, and for taking a minimum of 15 hours per semester I received \$135 per month. Taking summer courses from June through July 1955 I received \$100 per month. My wife, Nancy, supplemented our income working as an RN at the MSM infirmary. We lived off campus. Making ends meet wasn't easy but as we reflect back upon this experience we realize it was a very special time in our life. We learned a lot, made good friends, enjoyed fun activities and explored the sites around Rolla.

Lawrence H. Uelk, Hist'73
Fort Wayne, Ind.

I enlisted in the Air Force in June of 1966 and was discharged in July of 1970. Being from St. Louis and not yet having my degree, I really expected to end up like many others, where I would attend school during the day and work during the evening. My wife would probably work days and we would hope to see each other on weekends.

One year before my discharge, however, my father bought a cow/calf farm in Vienna, Mo., and suggested that I attend Rolla and manage the farm for a few years before he and my mother would retire there. My response: I knew nothing about farming and did not want to be an engineer.

Well, a little investigating uncovered the fact that UMR indeed was a university that had broadened its perspective beyond the range of engineering. ... During a leave taken in the summer of 1969, my wife and I spent three weeks at the farm and grew comfortable with the responsibilities we would face. ...

My years at UMR were very much woven into my experiences with the farm. Certainly, the managing of 100 cows and calves and maintaining 300 acres of property kept both my wife and me from enjoying some of the UMR extracurricular activities. However, the involvement with nature at the farm melded well with many of my humanities courses and our farm experiences are those we would not trade for anything.

UMR was a wonderful experience for me. I was a 25-year-old sophomore who had seen half of the world so I was not quite as green as some of my peers. There are advantages to the latter but, for me, I attended UMR at the right time and at the right age and it was all due to the GI Bill.

Winter, 1995

Don G. Smith, EMgt'76
Phillipsburg, Kan.

I was very appreciative of the monies contributed to me through the GI Bill. I was in the Army for three years from 1969 to 1972, spending over two years in the Vietnam conflict. Immediately after leaving the Army, I used the GI Bill for pre-engineering courses at Meramec Junior College in St. Louis. At that time, the GI Bill was only good for two years of college but it happened that Congress extended it to four years just as I arrived at UMR in 1974. The four years of education I received as a result of the help from the GI Bill has made a big difference in my life and the goals that I want to accomplish for myself and my family.



Don Smith, Vietnam, 1970



Thomas Schneider

Thomas P. Schneider, CE'75
Florissant, Mo.

After a disappointing freshman year in civil engineering at UMR from September 1966 to May 1967, I enlisted in the Navy Seabees. ... At that time I still wanted a degree in civil engineering and felt that serving in the Navy Construction Battalions as an engineering aide would be good experience. I served in Mobile Construction Battalion 74 as a surveyor on two tours of duty in Vietnam. I learned how to do horizontal and vertical data collection for planning as well as stake layout for ongoing projects. ...

When I returned to Rolla in the fall of 1972 on the GI Bill I continued my soccer team-building efforts and established a UMR Soccer Club to compete with other colleges and universities. We also started intramural soccer and helped the Rolla Optimists Club start Rolla youth soccer. By this time I was married to Rachel

and our son Jake was born in Rolla in 1974. I graduated in December 1975 with a BS in civil engineering having used every available dollar of GI Bill credit.

Marshall Grayson, EMgt'79
Hayward, Calif.

The GI Bill and a lot of sweat were what permitted me to obtain a UMR master's degree from the Engineering Education Center in St. Louis. I graduated from the University of Arizona in January 1970 with a degree in aerospace engineering and was commissioned through the Air Force ROTC program on the day I graduated. In 1986 I was selected as an Alfred P. Sloan Fellow to Massachusetts Institute of Technology for a one-year master of science program. ...

When I look back on my experiences, please be assured that my time at UMR was every bit as rewarding and personally fulfilling as my time at MIT. I learned a lot. I worked hard for that knowledge, and I've used it ever since my graduation. I owe as much to my education at UMR and the GI Bill as I owe to anything else. Thank you for the knowledge, the inspiration, and the helping hand from the military to the civilian world.



Marshall Grayson



A World War II vet remembers: *A run-in with MPs*

■ **Beryl H. Haught Jr.**

Editor's note: Beryl H. Haught Jr. attended MSM in 1943 and 1944. The following vignette, which is part of an article Haught wrote called "Why We Won the War," arrived too late to be included in the Summer 1995 issue about World War II. But we thought it would be of interest to some of our alumni who remember the way things were in Rolla during the 1940s.

Mitchell Azar, from Johnstown, Pa., was one of our "Gang of Four" when we attended MSM in the ASTP (Army Specialized Training Program) during the latter part of '43 and early '44. Mitch and his wife Lillian still live in Johnstown. ...

Mitch, Jerrold Brown from Wisconsin, Lawrence "Bud" Gallagher from Pittsburgh and yours truly made up our so-called gang.

We may never have distinguished ourselves with the grades we received in class, but we held the record for sneaking out after bed-check and visiting the local pubs and bars.

Everything was going along fine until the middle of February '44 when, due to the shortage of troops in the Army ground forces, the secretary of war Henry L. Stimson cancelled most of the ASTP programs.

The four of us ended up in the 44th Division. Mitch became a medic in the 324th Regiment and Brownie became a member of its cannon company. Gallagher and I ended up in the 114th Regiment—Bud in our anti-tank company and I as a rifleman in good old Company A.

It would be hard to imagine a group more diverse than ours. Brownie was the tall, blond, "Swedish type" intellectual; Gallagher a fiery, womanizing Irish-Catholic; me, the "country bumpkin," and Mitch, the Lebanese sparkplug and leader.

We had a lot of wild experiences at Rolla, including many confrontations and altercations with the soldiers from nearby Fort Leonard Wood. ...

The most memorable event took place one cold winter night at the Rolla bus depot. ...

As did most other interstate bus depots, Rolla's had a snack bar and restaurant that stayed open most of the night.

On the particular night in question, the four of us stopped in for a late night snack and coffee. While we were eating, some big burly MPs from Leonard Wood came in and hung their overcoats on one of the nearby tree-type coat racks. Their upper armbands with the big white "MP" were prominently displayed on each of their overcoats.

On the pretext of going to the bathroom, Mitch eased over to the coat rack and casually removed one of the arm bands.

When he returned to our table, he clandestinely slipped it into one of Brownie's back pockets.

Unfortunately, one of the MPs had apparently spotted what Mitch had done and he and his partners came rushing over to our table and threatened to arrest us all for stealing one of their arm bands.

Brownie, who was usually the most quiet and subdued, became furious at the accusation. He jumped up and demanded an apology with words to the effect that, "How dare you accuse one of us of committing such a heinous crime!" He went on to say, "I'll have you know we're college students in the ASTP program and not a bunch of 'riff-raff' like you have out at Ft. Leonard Wood."

Brownie extended his arms out

and demanded that he be searched. Mitch was quick to agree. "Yeah! Go ahead and search him," Mitch also demanded. "It's for sure that one of us other three didn't take your stupid arm band but we don't know this tall blond kid here very well, so go ahead and search him. But if you don't find anything, I think you should get out of here and leave us alone!"

MPs don't normally back down, but apparently they were so convinced by Brownie's insistence on being searched and Mitch's stellar acting performance that they meekly turned around and went back to their table.

After we'd finished eating and went outside, Brownie had this to say. "Mitch," he asked, "What in the heck was all that business in there about you guys not knowing me very well? You know as well as me that we've been friends since the first day we got here?"

"Brownie," Mitch replied, "I've been wanting to tell you this forever, but this is the first time I've had a real chance. As an American soldier, you're dressing more sloppy every day. Take tonight for example. There's a big bulge in one of your back pockets and it's getting to the point where we're getting embarrassed to run around with you, so I think it's about time you started shaping up!"

It's for sure that Brownie wasn't all that thrilled when he finally found out what had taken place, but it sure gave the other three of us our "Kicks on Route 66"!

ROTC marches on...

■ Marianne Ward

Left, left, left right left.

The unified steps of more than 2,500 Army ROTC officers — including several future generals — have marched on the MSM-UMR campus during the program's 122-year history on campus.

MSM, because of its status as a land-grant institution, was required by the Morrill Act to offer Military Science and Tactics. The first Army company, known as Company G of the Student Battalion, was founded in 1873.

Four years later, an economic depression silenced the student soldiers' boots. Company G was disbanded because of a decline in school revenues and enrollment.

The rhythmic beat resumed 40 years later at the advent of World War I. All "physically able male freshmen and sophomores" were required to enroll in the re-established Military Science and Tactics program starting in the fall of 1917.

On Oct. 1, 1918, MSM established the Student Army Training Corps and briefly became a war training center.

The modern Reserve Officers Training Corps program began at

Three years later — a few months after the end of World War II — MSM was the first Midwestern university to re-establish an Advanced ROTC unit. For many years, MSM housed the Army's largest engineering ROTC unit.

The ROTC program changed in 1965 to a general military science curriculum, ending the engineering-specific program.

"Until 1965, this was a straight engineer ROTC program," says Lt. Col. John R. Buckwalter, ME '71, CE '79, commander of UMR's Army ROTC program and professor of military science.

With this change came the end of the requirement

for freshman and sophomore men to participate in ROTC. Despite voluntary enrollment, the number of cadets remained high through the end of the Vietnam War.

"When the draft still loomed, many people had student deferments," Buckwalter says. "Students either knew they were going to have to serve



Corps of cadets passing in review, late 1960s.

MSM in January 1919 — two years after Congress established the program. Again, all "physically able male freshmen and sophomores" were required to enroll.

World War II caused a radical change in the ROTC program. In June 1943 all Advanced ROTC cadets entered active duty.



Above: "B" Co., Engineer Unit, ROTC, MSM. Right: making a sighting triangle (WWI & WWII).



or they felt it their duty to serve. In either case, they wanted to be commissioned officers, and the route to a degree and a commission was through ROTC."

Enrollment fell sharply, however, when the draft ended in 1972.

"The unpopularity of the war didn't have a major impact on enrollment in ROTC, but the end of the draft did," Buckwalter says. "When the threat of the draft was eliminated, we lost everyone except those who wanted to serve. As we went to an all-volunteer Army, the officer corps became even more volunteer."

Buckwalter witnessed the change. He was one of 71 second lieutenants commissioned at UMR between July 1971 and June 1972. His group marked the end of an era. "Ours was the last large graduating class," he says.

Lt. Col. John B. Sullivan, commander of UMR's Air Force ROTC program and professor of aerospace studies, says the same thing was happening at campuses across the nation and not just with the Army, but also with the Air Force. He graduated from the University of Portland and was commissioned in 1973. He witnessed the same drop in Air Force ROTC enrollment on his campus.

It was even worse, however, for UMR's Air Force ROTC program. The fledgling program was just getting started in the spring of 1971.

"We couldn't have picked a more difficult time to start an Air Force ROTC program at UMR," Sullivan says. "The end of the draft was followed by a drop in mining and engineering enrollment at UMR."

The Air Force closed its doors on the UMR campus in 1976.

Second time around is charm for Air Force

In 1982, the Air Force again opened its doors on the UMR campus to attract much-needed engineers and scientists.

"It started with a bang due to the large number of scholarships offered. But enrollment dropped off as scholarships became more scarce and the need for new pilots declined," Sullivan says.

Women enter the forces

A new era began in 1973 when women were admitted to the ROTC programs. The first female Army officer commissioned by UMR was Theresa Kay Laverenz in May 1976.

UMR's Air Force ROTC program has accepted women since its second start in 1982, and has commissioned women in nearly every graduating class since.

Name change

In 1982 the Air Force ROTC was known as Detachment 440A and came under the jurisdiction of the University of Missouri-Columbia's Detachment. In 1984, the unit became known as Detachment 442, marking its gain of autonomy — a full year ahead of schedule because of cadet enrollment.

In 1987, the Army ROTC detachment became the U.S. Army Stonehenge ROTC Battalion, taking its name from the half-scale Stonehenge replica on campus.

The beat of a different drummer

Five years ago ROTC enrollment again dropped drastically due to:

- politics, especially the end of the Cold War era



Theresa Kay Laverenz, the first female Army officer commissioned by UMR.

- economics, with efforts focused on reduced government spending
- a change in the world situation, including the collapse of the Soviet Union
- a policy change for the Army ROTC, which required officers to earn their bachelor's degrees before being commissioned

"Up to that time, students could be commissioned into the Army before they earned their degree, if they were going to serve in the reserve component. That's also the same time downsizing really hit, along with uncertainty about a military career," Buckwalter says. "We went from commissioning 21 officers in one year, to one the next. We essentially have been rebuilding and making steady growth ever since."

Buckwalter expects to commission 15 cadets this year. It will be the first time in several years that the ROTC program has met this goal, Buckwalter says.

Sullivan expects to commission eight cadets this year, nine next year and at least 15 in 1998.

"The uncertainty of the world political environment has been a disincentive for students to make a commitment," Buckwalter says. "They have no idea which direction the world is going. Many people don't know we still need a military force and that we have sized that force for the future."

Unless the world situation changes, Buckwalter and Sullivan expect 15 each (for a total of 30) to remain the Army and Air Force ROTC's goals. On the average, it takes a freshman class of 100 to end up with 15 commissioned officers. Many leave the program during their freshman and sophomore years because of the time commitment or a change of heart, Buckwalter says.



The Army's goal is to place 4,300 new lieutenants on active duty each year. Seventy percent of them come from ROTC programs. The number of new lieutenants ensures that each will have an opportunity for promotion and a full career — an opportunity that is better today than it was 20 years ago, Buckwalter says.

Last year, the Air Force commissioned 1,418 cadets through its ROTC program. Air Force ROTC produces about half of the new lieutenants who come on active duty;

the others are commissioned through the Air Force Academy and Officer Training School. After 10 years of downsizing, Air Force ROTC production goals should stabilize to about 1,400 to 1,500 in the near future. Opportunities for those who enroll in Air Force ROTC are expanding, especially for pilot training. Pilot training slots are growing from 100 in 1994 to more than 500 in 1996, Sullivan says.

Quality over quantity

Quality, not quantity, is the focus today. "Today's cadet is more intelligent and more rounded," Buckwalter says.

The evidence, he says, is the cadets' demonstrated leadership — not just in ROTC, but across campus. He points with pride to two recent GM Spirit Award winners — Victor Poland and Tony Hatfield — who have been Army ROTC cadets.

As volunteers, today's cadets are more dedicated to service to the nation. "They're not here because

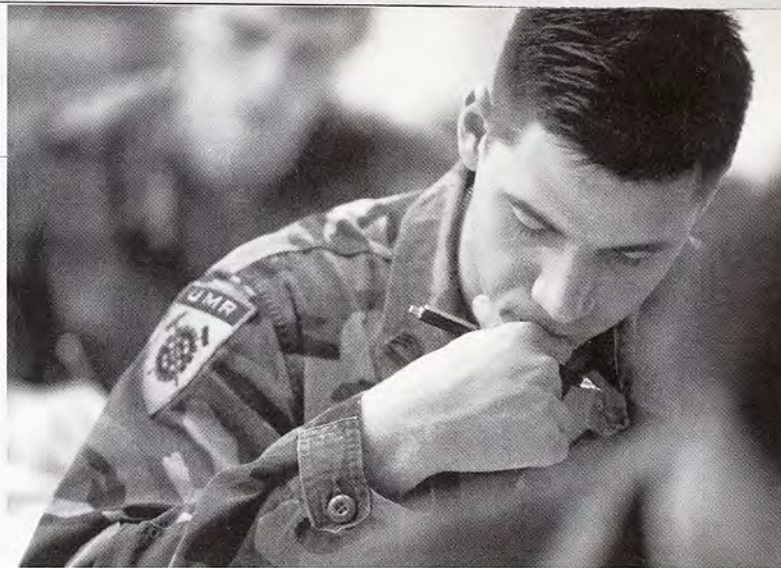
they're afraid of being drafted. They are here because they want to be," Buckwalter says.

The Army, however, wants a more diverse group to join the ranks. While the Army is more diverse than it once was, "we don't have as many female cadets as we should have," he says. "We're looking to see how we can improve the program to make it more attractive to women."

The Air Force also seeks diversity among its leaders. Women make up 14 percent of UMR's detachment.

"Overall Air Force ROTC production is better, at just over 17 percent, so we have some work to do," Sullivan says. Sullivan also focuses on recruiting more minorities.

The Air Force considers UMR an excellent source of future leaders. Among UMR alumni leaders are Maj. Gen. Richard Paul, EE'66, and Col. Tom Akers, AMth '73, '75, Space Shuttle astronaut. ■



ARMY ROTC ENROLLMENT, 1972-1995

Year	Opening Enrollment UMR UG Engr	MSI&II	MSI III & IV	Commissions end of year
72	3894	62	66	46
73	3542	34	35	28
74	3478	42	19	14
75	3899	61	19	8
76	4141	119	15	12
77	4391	61	21	7
78	4653	82	33	11
79	4870	198	35	15
80	5514	268	32	9
81	6315	530	39	13
82	6781	758	49	13
83	6313	707	54	29
84	5742	179	72	23
85	5092	143	67	29
86	4675	105	51	25
87	4371	134	38	17
88	4212	111	44	10
89	4138	150	43	21
90	4221	90	25	1
91	4339	96	30	4
92	4347	81	33	7
93	4406	91	41	8
94	4345	121	39	8
95	4316	102	39	*16

UG Engr=Undergraduate Engineering MS=Military Science *Projected

GENERAL EDUCATION

UMR graduates who have obtained the rank of general:

- Byron E. Peebles, MinE'36
- Lt. Gen. Walter P. Leber, MinE'40
- Lt. Gen. Edward Fris, EE'43
- Maj. Gen. Wesley Peel, CE'58
- Maj. Gen. Robert Bay, CE'49*
- Maj. Gen. Robert J. Dacey, CE'64
- Maj. Gen. Richard R. Paul, EE'66*
- Maj. Gen. Joe N. Ballard, MS EMgt'72*
- Brig. Gen. Echol E. Cook, PetE'61
- Brig. Gen. Jan H. Paynton, CE'59
- Brig. Gen. Thomas E. Whitecotton III, ChE'62
- Brig. Gen. John D. Havens, CE'61
- Brig. Gen. Jerry Sinn, MS EMgt'75*

* Was not commissioned through MSM-UMR's ROTC programs

Buckwalter answers the call: duty, honor, country

While many college students around the nation marched for peace as the 1960s ended, a quiet 18-year-old John R. Buckwalter answered the call to duty, honor, country as an ROTC cadet at UMR. Although it was not the most popular move with his peers, "I was a cadet my freshman and sophomore years," Buckwalter says. "I got interested in military science and decided I really wanted to serve. I felt it was my obligation."

His destiny was sealed when he won scholarships his junior and senior years. The four-year obligation that came with the scholarships has snowballed into 23 years of service.

His first three years of active duty took him to Germany, where he served as a platoon leader, construction officer and company executive officer. A few years later he returned to UMR and earned his master's degree, compliments of the Army.

"After that I worked as a civil engineer in the Army's Construction Engineering Research Lab in Champaign, Ill. By then I had 10 years in and realized I liked what I was doing," he says.

Today Lt. Col. Buckwalter, ME '71, CE '79, admits he never planned on a career in the military — let alone leading others into military service as the commander of the Army's ROTC program at UMR. But he can't think of anything else he'd rather do.

"ROTC is the job that gives you more opportunity to work with and influence the young men and women who are going to be the future of the Army than any position except perhaps serving as a battalion commander," he says. "I came back to UMR to train my replacement."

Buckwalter's military career will end where it started. This will be Buckwalter's last year. When he retires in August 1996, he plans to complete his Ph.D. in civil engineering.



"ROTC is the job that gives you more opportunity to work with and influence the young men and women who are going to be the future of the Army than any position except perhaps serving as a battalion commander. I came back to UMR to train my replacement."

—Lt. Col. John R. Buckwalter

From the battlefield

■ John Kean



After the war, GIs brought a new kind of team spirit to Miner football

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In 1944, the opponents were Japan and Germany. The field was the air, sea and islands of the South Pacific and the continent of Europe. These men wore helmets, but also fatigues, boots and backpacks. Instead of footballs, their hands held weapons. The end zones were not 100 yards apart, but a hemisphere away, and the drive to get there was brutal. What they learned on the battlefield helped them become a winning team on the playing field.

Because of where many of them had been—the battlefields of Europe, the skies over Japan—the members of the 1946 MSM football team forged a rare quality, that kind of special chemistry a coach is always looking for.

The teammates were bonded by the common experiences of war and the unity it took to attain victory. That bond manifested itself in many ways. For the 1946 Miners football team, one common value was respect for each other, regardless of age or other differences.

“Age made little difference,” **Dick Whitney** (CerE’50), a halfback on the 1946 team. “Nobody was pulling rank on anyone. It was easy to get along with everybody.”

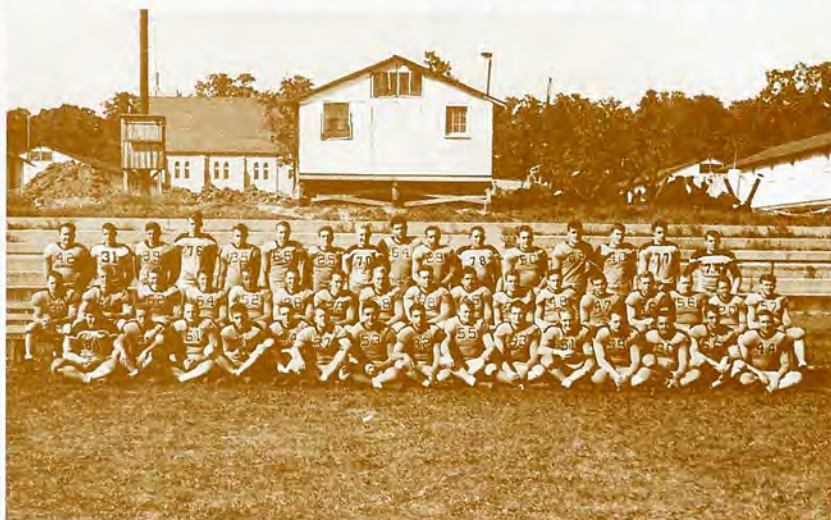
These players also had a different outlook on the game. They enjoyed being back on the field, as though they had a second lease on life.

“We were just delighted to get back on the field,” says **Bill Gammon** (ChE’49), who also played halfback and led the 1946 team with four touchdowns. “I was looking forward to the season and thoroughly enjoyed it.”

“Everyone was out there just to have fun,” adds the team’s center, **Ralph Stallman** (MGeo’50).

And after World War II, who could blame them?

1946 Miner Football team



ROSTER

Bottom row: Frank Miller, Martin Hobelman, Don Matthews, Harlan Meyer, Bob Reichelt, Ralph Stallman, Roy Shourd, Bill Gammon, Paul Jones, Gilbert Carafiol, Monte McCord, Neal Wood, Paul Fullop, Tom Jones, George Eadie. Middle row: Bob Kemper, Donald Heath, Sid Duerr, Ray Seabaugh, Tom Jennings, Bill Breit, Robert Volz, Oliver Jorcke, Carl Block, W.J. Wilson, Murray Pipkin, Al Shwartz, Earl Hoehn, Al Rogers, Jerry (J.T.) Berry, Frank Hequembourg, Luther Steele. Top row: John Ceresa, Eaton (first name unknown), Eugene Marshall, Joe Good, Dale Stone, Dick Whitney, Ray Swentak, Art Schmidt, Anton Leone, Calvin Duke, Jim Stephens, Albert Petska, John Hazlett, Jim McGrath, Bill Weismantel, Gale Fulghum.

To put in perspective what the 1946 Miner football team looked like, consider the following:

The 1946 Miner squad was considered to be one of the oldest Miner teams in recent years. That roster included 17 seniors and a number of redshirted players. The average age of that 76-man team—19.4 years old—falls somewhere in the middle of the sophomore year. But compared to many rosters, which are inundated with underclassmen, that was an old team.

Now, look at the team that took the field in 1946: This squad included 20 players who would return the following year to help the Miners win their first outright conference championship, yet the average player on the '46 squad was 21.9 years old. These days, that age would put one closer to receiving his degree than having received his first lecture.

“What I can remember is that there was quite a cross-section of players out there,” says **Roy Shourd**, PetE’50, who came to MSM after serving with the U.S. Navy Seabees in the Pacific and later captained the 1949 championship team. “We had quite a few players who were married and had children. It was a more mature team than some of those you see today.”

Many members of the '46 Miners' 53-man squad were in the service during World War II. The first true post-war team (MSM did field a team in 1945, but like many teams, it was just coming together after the war officially ended in September) had eight players who had already celebrated their 25th birthday, and only six who were still teenagers.

Most of the players attended MSM on the GI Bill, which allowed veterans to continue their college education basically free of charge.

“We had a bunch of GIs out for football,” recalls Stallman, who at age 28 was one of the oldest players on the Miner roster. “We didn’t get anything for doing it, but under the GI Bill we didn’t need scholarship help.”

Thanks in part to the bill, a number of veterans also appeared on the school’s other athletic teams, and some of the programs prospered as a result.

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MSM's swimming team, for example, won back-to-back Missouri Intercollegiate Athletic Association championships in 1947 and 1948. The golf team won a conference title in 1947, and the indoor track team won a championship in 1948 (still the only indoor track title by a Miner team). In addition, the basketball team, which had very limited success as a member of the MIAA, produced a respectable 7-9 record in 1945-46 and a 10-9 record two years later—the first winning season in a non-war year as a member of the conference.

No program may have gained more from these war veterans than the football team, which had some of its best seasons during that stretch. The Miners won their first outright MIAA title in 1947—thanks in part to many of those 20 returning players from 1946—and added titles in 1949 and 1950. In the latter year, the Miners gained their only post-season win in school history by winning the Corn Bowl over Illinois State.

The team that took the field in 1946 started one of the most successful runs in school history.

"We had a lot of good, strong people with a lot of football experience, and a lot of these players had played for Gale (Bullman, the Miners' head coach)," says Gammon. "We were also a lot stronger and bigger, too. When I came in 1943, I was just 17 years old and wasn't physically mature yet. But I was more physically mature when I came back in 1946."

Some players were able to play during the war years. MSM still played games during the 1942, 1943 and 1945 seasons, although the team lost several of its top players to active duty. The 1943 squad was primarily made up of cadets in the Army Specialized Training Program (ASTP), a means to keep MSM open during the war.

Most of the playing was being done at other places. For instance, **Jim McGrath** (CE'49) played at the University of Georgia, while **Gale Fulgham** (MetE'47) went to the University of Oklahoma. One player off that team, **Bob Reichelt** (EE'49), played while in the Army Specialized Training Program at MSM.

"Our colonel in charge allowed us to play, provided we played all-Army teams," Reichelt says. "A lot of us had to play under assumed names, because we were worried about how the brass would react. One of the reasons for that was so our names never showed up in the newspaper."

Reichelt, who said he played under the assumed name of Robert Gordon, couldn't recall many of his teammates on those squads coming back to play after the war ended. After serving in Europe, he was among the first soldiers to return, but missed the fall enrollment date and, like many of his teammates on the '46 team, had to wait until January to enroll.

McGrath, an end on that squad and a member of the championship team a year later, noted the bond which helped develop those teams. Most of the first post-war team and a large part of the 1947 squad had something earlier Miner teams lacked.

"We did find it a great deal different when we came back and felt that it was all due to our personal experiences," says McGrath. "We just felt we were more capable of doing things. Physically, we still had it."

"But we also had to play 60 minutes of the game (college rules in those days allowed a player to be substituted just once per quarter; therefore, most players played both offense and defense for the entire game). When you look at the kids today, we were not in nearly as good physical condition as today's players, and it took a toll on us."

College football is a year-round game today. With the evolution within the game and off-season conditioning programs part of the package, it is not uncommon to see 300-pound players on rosters in 1995 and teams carrying numerous players larger than

Carl Block (CE'56), a tackle who was listed on the 1946 roster at 250 pounds, making him the biggest athlete on the team. This season's Miner team has 15 players bigger than Block.

After Block and 245-pound **Jim Stephens** (EE'47), the next biggest member of the '46 team was 220-pound tackle **Neal Wood** (MinE'48). Wood was one of the many stars among the 1946 Miners and served as a captain of the championship team a season later, when he also won first-team All-MIAA honors. It was a group that included:

- Halfback **Paul Fullop** (MinE'48), who was decorated as one of the first Marine Aces in the Pacific and one of the leading scorers on the championship team in 1947. Fullop, who won all-conference honors both before and after serving in World War II, died in a plane crash in Colorado a few years after graduating.

- Fulgham, a guard, who played some at the University of Oklahoma during the conflict, was considered to be one of the top linemen in the conference. Fulgham died in 1991.



•Tackle **Luther Steele** (ME'49), who arrived at MSM in 1946 as a 21-year-old and developed into a first-team all-conference player by the 1948 season. He later became president of Southeast Air Control in Fort Worth, Texas.

•Fullback **Gilbert "Moose" Carafiol** (ME'47), a first-team all-conference selection prior to his joining the service in 1942. He went to the Iowa Pre-Flight school during the war, then returned to MSM as a key member of the 1946 team.

•End **John Hazelett** (MetE'47), a former submarine commander who had played at the University of Illinois prior to his arrival at MSM.

The 1946 roster included 10 players who had been named to the All-MIAA first team at some point in their career. It included Whitney, Shourd and back **Art Schmidt** (ChE'50), who was one of the half-dozen teenagers on the squad.

Stallman, another of those 10 players, had received a scholarship in 1939 to attend the University of Alabama, where he was redshirted one season and then played for a year. Shortly thereafter, the war started and he was sent to Williams Field in Arizona, where he spent time coaching a team.

He had crossed paths with Bullman while playing at Soldan High School in St. Louis, when Bullman was coaching at Washington University. He ran into Bullman again after the war, and Bullman talked him into coming to Rolla.

Stallman had never played on the line before, but two weeks prior to the opening game against St. Louis University, he was put in at center because Bullman needed someone there. "The next thing I knew," Stallman says, "I was starting against St. Louis."



The season itself started auspiciously as the Miners lost 24-0 to St. Louis University. MSM won its second game, however, beating Central Methodist 12-6 at the old Jackling Field. Then came a road trip to play Oklahoma City University, a team considered to be one of the best in the country. The Chiefs had already beaten their first three opponents by an aggregate score of 138-0.

"I remember being in the car with coach Bullman when we were going to Oklahoma City," Whitney says. "He was



Left to right, **Bob Reichelt** (foreground), **Al Shwartz**, **Jerry Berry**, and **Paul Fullop**.

reading the newspaper and somebody predicted that we would get beat 100-0. He got so excited that he lit his pipe with the cigarette lighter and then threw the lighter out the window."

MSM did end up on the short end of a lopsided score that night, losing 74-6, but the touchdown scored by **Jerry Berry** (CE'49)—a 25-year old veteran who prior to the war played football at the University of Akron—was the first scored against the vaunted OCU defense all season. Before the season ended, Oklahoma City would outscore its opponents 470-47 in going 10-1.

The Miners were able to put that game behind them quickly as they shut out Warrensburg (now Central Missouri State) and Maryville (Northwest Missouri State), the latter win being the first by any team over the Bearcats in four years. Those victories set up a meeting with Cape Girardeau (Southeast Missouri State) for first place. The Indians won the game 27-6 and eventually the conference title, but the Miners would avenge the loss a year later.

MSM won one more game in 1946, beating Springfield (Southwest Missouri State) before playing to ties with Kansas State-Pittsburg and Kirksville (Northeast Missouri State) to finish 4-3-2. But the disappointment of not winning the league title—"a lot of us thought we should have won it in 1946," says **Bob Kemper** (CE'49), the team's quarterback—served as a reminder a year later when the Min-

ers entered the final game of the season with a chance to win the MIAA championship.

Thanks to two early touchdowns by Fullop and a brilliant all-around performance by Whitney, the Miners smashed Cape Girardeau 47-19 at Jackling Field to win the MIAA title and get their revenge for the previous year's defeat. Whitney scored three times by catching a touchdown pass, running for a score and returning an interception.

By 1948, the ranks of veterans were beginning to diminish on the football squad. Team members believe nearly 90 percent of the players were attending college under the GI Bill in 1946 and that the 1947 team had a high percentage as well. It wasn't until the 1948 season that rosters began returning to normal.

More than anything else, veterans were grateful for the GI Bill and the opportunity it provided them.

"It was a big help to us," says Kemper. "We came in and got so much money as an allowance for books and tuition, and it was a great help for us. Many of us wouldn't have had a chance to go to college, let alone a school like Rolla."

"The GI Bill was a godsend," echoes McGrath. "A lot of guys would have never had the opportunity to go to school."

The chance they had to go to school was unique, as was the football team it produced. ■

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Curators' Professor Daniel W. Armstrong

An "Oscar" of invention

*UMR scientist's applied research helps
"make the world a better place to live"*

Thanks to Armstrong's efforts, UMR is the first public university in Missouri to win an R&D 100 award. Only two other universities, MIT and Iowa State, were honored this year in the international competition.

Daniel W. Armstrong's latest invention, which gets the unwanted side effects out of drugs, joins the ranks of anti-lock brakes, the anticancer drug taxol and the fax machine as inventions that make the world a better place to live.

Armstrong, Curators' Professor of chemistry at UMR, was one of only three university faculty members in the nation to receive an R&D 100 award for 1995 from R&D magazine, a leading research publication.

The R&D 100 awards, dubbed "The Oscars of Inventions" by the Chicago Tribune, recognize inventions "that have made the world a better place

to live." Previous winners include anti-lock brakes, the Nicoderm anti-smoking patch, the fax machine, taxol, liquid crystal displays, the VCR and halogen lamps.

Thanks to Armstrong's efforts, UMR is the first public university in Missouri to win an R&D 100 award. Only two other universities, MIT and Iowa State, were honored this year in the international competition.

A display describing Armstrong's invention—the Chirobiotic column—was exhibited, along with other R&D 100 award-winning inventions, at Chicago's Museum of Science and Industry in September.

Armstrong also received his award at a ceremony Sept. 19 in Chicago.

The display detailed how Armstrong used a special class of basket-shaped antibiotics to separate the desired drug or chemical from its mirror-image or chiral impurities. The technique uses the antibiotic vancomycin and other related macrocyclic glycopeptide compounds. These compounds are bonded to silica gel—a white powder that resembles a very pure, fine sand—and packed under high pressure into a special steel column. When certain drugs, pesticides and food additives known as chiral (mirror-image) compounds are pumped through a column, the result is products that are purer and have fewer side effects.

This has obvious benefits to society. But, Armstrong says, "My original research focus was not to develop a commercial column, but rather to understand how these basket-like molecules complexed and recognized other biologically important molecules.

"During the course of our research it became apparent that there were some practical uses for our work. I decided it would then be worthwhile to prove its viability."

Patents are pending on the columns, and the university has licensed the technology to a New Jersey firm, Astec. The University of Missouri System and UMR are currently receiving royalties from the invention.

For more information about any of these news items, please contact UMR News Services 573-341-4328



A new use for old oil filters



Kent Peaslee, putting the squeeze on discarded oil filters.

“**New federal regulations are now encouraging oil filter recycling. Several states have already banned landfilling of oil filters, with several others restricting disposal methods.**”

—Kent Peaslee, PhD MetE'94, assistant professor of metallurgical engineering

Recycling used motor oil is fairly commonplace these days, but the residual oil left in filters still poses a danger to groundwater. Now, a UMR researcher is looking into ways to recycle those filters.

“We use about 400 million oil filters in the United States each year, and most of them are dumped into landfills,” says **Kent Peaslee**, PhD MetE'94, an assistant professor of metallurgical engineering. Along with those old filters, we throw away some 24 million gallons of used oil and about 170,000 tons of steel.

The residual motor oil in those filters, along with other toxic components, could leak into groundwater and surface-water supplies. “That wastes valuable resources and risks contamination of the environment,” Peaslee says.

But recycling those used automotive oil filters “has the po-

tential to recover over 90 percent of the oil from those filters for recycling, and the potential to recover and recycle 100 percent of the steel as ferrous scrap,” Peaslee says.

Until recently, oil filters were not considered a good source for scrap metal. The large volume of residual oil remaining in discarded filters, along with the small tonnage generated in comparison to the amount of scrap consumed, made metal recovery too expensive. State and federal regulations are changing that, however.

“New federal regulations are now encouraging oil filter recycling,” Peaslee says. “Several states have already banned landfilling of oil filters, with several others restricting disposal methods.”

Peaslee has been studying ways to improve the recycling process for oil filters since 1992. “I spent a year pioneering the research with the cooperation of several different manufacturers of oil filters to try to figure out the best way to recycle them,” he says.

The initial research found many differences in the metal content and in the amounts of oil retained in the scrap, depending on the method used to process the filters themselves, Peaslee says.

His current research, sponsored by a grant from Purolator Products Inc., based in Tulsa, Okla., involves determining the different materials that make up an oil filter based on the size and manufacturing technique. Once the materials are characterized, the researchers hope to develop designs of filters which are easier to recycle.

The research will also study the effects of melting used oil filters, Peaslee says.



Hitting the books:

Four faculty recently published

•“Cognitive Psychology,” by **Ronald T. Kellogg**, professor and chair of psychology, is the second volume in Sage Publications' Advanced Psychology Text series. The book uses everyday situations to explain theories in cognitive psychology.

•“Ceramic Processing and Sintering,” by **Mohamed (Len) N. Rahaman**, professor of ceramic engineering, is a textbook for ceramic engineering students. The book, released in August, is published by Marcel Dekker Inc. of New York.

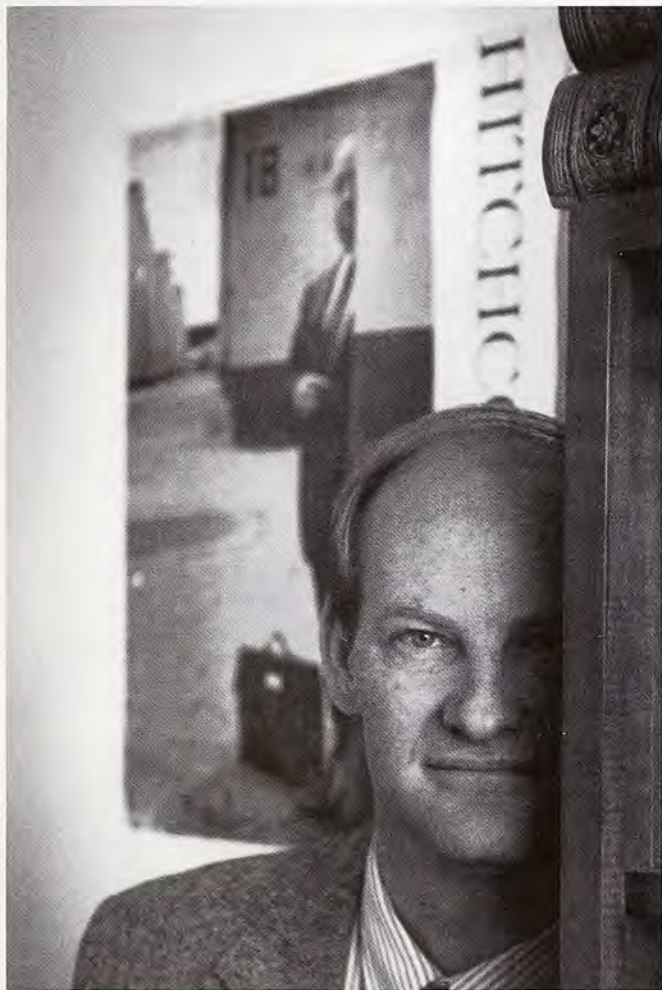
•“Impression Management in Organizations,” co-written by **Catherine Riordan**, professor of psychology and director of management systems, is a textbook that focuses on how people control their images while at work. The book is part of the Essential Business Psychology Series by Routledge of London and New York.



•“Applying Quality to Education,” which contains an article by contributing writer **Henry A. Wiebe**, a professor of engineering management, was published last spring by Prescott Publishing Co. Wiebe's chapter is about UMR's quality management initiatives.

Masters of suspense:

Professor spellbound by Poe-Hitchcock connection



Dennis Perry says Alfred Hitchcock was notorious for borrowing themes from Edgar Allan Poe.

“Hitchcock himself said he would not be making suspense films if not for Poe.”

—Dennis Perry, associate professor of English

Was Poe’s poem “The Raven” for “The Birds”?

Dennis Perry thinks so.

Perry, an associate professor of English at UMR, says Alfred Hitchcock, the master of suspense movies, was heavily influenced by another master of suspense: Edgar Allan Poe. In a paper to be published soon in *Literature/Film Quarterly*, Perry explores what he calls the “mostly overlooked and generally underestimated influence of Poe on Hitchcock.”

Poe and Hitchcock both worked with several common themes, such as characters motivated by irrational obsessions, madness and guilt, the dead’s influence over the living, and the darker side of life. Both also worked to evoke certain audience reactions, Perry says.

“For both Poe and Hitchcock,” he writes, “articulating the remote nightmares of consciousness is the central concern and activating reality of their works in one way or another. Both document the disintegration of the mind—Poe with his insane narrators (‘Ligeia’ and ‘William Wilson’) and Hitchcock with his psychiatric patients and homicidal maniacs (‘Spellbound’ and ‘Frenzy’).

“Most important, however, is how they each use these characters to challenge audience complacency. In Poe, the cool logic and suave intelligence of many of the mad narrators seems meant to unsettle our own mental quietude. On the other hand, Hitchcock takes us a step further into dangerous territory by duping us into rooting for the criminally insane—hoping Norman (Bates, from ‘Psycho’) can successfully bury Marion Crane’s car

and that Marnie (a character from a 1964 film who steals to compensate for the lack of love from her mother) will elude the cleaning woman. Such occasions force viewers to question their own character, and perhaps to doubt their own stability.”

Perry, an aficionado of both Hitchcock and Poe, admits he’s not the first to see this connection. But, he adds, few have explored it as thoroughly as he has.

“In the past, people have made the connection between Hitchcock and Poe in a passing way without developing it,” he says. “My contribution to Hitchcock studies is my argument about the significant influence Poe had on Hitchcock. Hitchcock himself said he would not be making suspense films if not for Poe.”

For Perry, the pattern emerged while he was watching “Vertigo.” The movie reminded him of Poe’s classic short tale, “The Fall of the House of Usher.” Intrigued by the thematic similarities, Perry started searching for other connections between their works. As a result, Perry wrote “Imps of the Perverse: Discovering the Poe/Hitchcock Connection,” the paper recently accepted for publication by *Literature/Film Quarterly*. *Literature/Film Quarterly* is a journal devoted to studies of the connections between literary texts and films, or the literary bases of many films.

Perry didn’t stop with the paper. Last spring, he shared his interest with about 30 UMR students in a new class, “Hitchcock and Poe.” In it, students analyzed film images and compared Poe’s work with Hitchcock’s.

A



class ACT:

Student with perfect score is anything but typical

Jessica Allison, one of three Missouri students to score a perfect 36 composite score on the ACT in 1994, spent last summer—the summer before her freshman year at UMR—conducting atomic physics research with **Dan Waddill**, an assistant professor of physics.

That may not be the way a typical student spends the summer before college, but Allison, the daughter of Cyndi and Andy Allison, is anything but typical. She graduated from Hannibal High School with a 4.3 grade point average on a 4.0 scale. (Honors courses allow for the above-4.0 score.) She first took the ACT as an eighth-grader and scored a 30. She scored a perfect 36 on the exam as a junior in April 1994.

"It was so cool," she says. "The guidance counselors got the scores at the school and called me from my seventh-

hour calculus class. I was totally shocked. The coolest part was taking it back to calc and showing it to a student who thought he was smarter than everybody else. My goal was to get a 34 to beat his 33. When I showed him, he was mad."

As one of the first students to enroll in UMR's new Master Student Fellowship Program, a BS/MS degree program that allows students to earn a master's degree in five years, Allison plans to get a master's in physics and a minor in nuclear engineering. She then plans to pursue a Ph.D. in nuclear physics from Massachusetts Institute of Technology.

Allison opted for the BS/MS program because "we're guaranteed scholarships each year," she says. "And, we're getting to start research early so that we can get ahead and get our masters."

New program offers promising future for freshmen

What's the value of a promise these days?

For UMR freshmen next fall, the value could be a promising future.

Beginning next fall, UMR freshmen and transfer students can take part in "the UMR Promise," a program to guide students through their academic and extracurricular activities to better prepare them for their careers.

Simply put, students who follow the UMR Promise program—which involves extracurricular activities and maintenance of a certain grade-point average—are in essence guaranteed a job or graduate school after graduation. If they don't have a job or graduate school within six months after graduation, UMR will provide another 30 hours of education free of charge.

The philosophy that undergirds the UMR Promise is this: students who take part in certain activities while on campus—such as getting involved in student groups to improve their

leadership, teamwork and communication skills, or taking part in cooperative training opportunities—are more marketable when they come out of school than students who don't get involved in such activities. The UMR Promise incorporates those "co-curricular" activities into a formal educational plan for students.

Involvement in student groups and other activities is a strong indicator of future success, says David J. Allen, director of admissions and student financial aid.

"As our alumni reflect on the paths that have led them to success, they tell us that their in-

volvement in co-curricular activities at UMR played a vital role in developing their leadership, communication and teamwork abilities," Allen says. "Our experience tells us that if you follow these recommendations (in the UMR Promise) to balance your academic studies with co-curricular learning, you will have a career opportunity when you graduate."



For more information about the UMR Promise, contact the admissions office at 1-800-522-0938 or send e-mail to egghead@umrvmb.umn.edu. Or check out the admissions office on the World Wide Web at <http://www.umn.edu/~enrol>

Helping clean up a tarnished image

UMR and the Iron and Steel Society are working together to get college students interested in an industry that is cleaner than many of them might realize.

"The iron and steel industry has always been looked upon as a hot, dirty and low-tech business," says **Chris Ramsay**, MetE'84, an associate professor of metallurgical engineering at UMR. "What we are trying to do is get the truth out to these students that the iron and steel industry is modern, high-tech and environmentally pro-active."

UMR has begun promoting the industry through the Ferrous Metallurgy Grant Program, which is supported by the ISS Foundation. The program is funded through a three-year grant of \$50,000 per year and targets both undergraduate and graduate students, but "is geared mainly to attract undergraduate students to manufacturing metallurgy areas," says Ramsay, who is the 1995 Ferrous Metallurgy Grant Award winner from the ISS Foundation and director of the program at UMR.

As a Ferrous Metallurgy Grant Professor, Ramsay's job will be to "challenge my students to learn and apply metallurgical principles to real problems," he says. Students taking part in the program will work on research projects in UMR's metallurgical engineering department, take part in industrial conferences and get hands-on experience by working in steel mills during summer months. "We want to match the students with companies for co-op and summer jobs," says Ramsay.

Ramsay knows the value of hands-on education. As a college student at UMR, he worked in various foundries and spent one summer in the steel foundry at the Newport News Shipbuilding and Drydock Co.

Winter, 1995



Aaron Barklege, left, and Bill Fennewald, work on attaching a crank assembly to an alternator as part of their freshman engineering project.

Freshmen get their hands on "real" engineering

“Nationally, one of the criticisms of engineering programs has been that we give students two years of the same old math and science before we introduce them to any applied engineering. ... But this approach will give students an early idea of what engineering is all about.”

—Ronald Fannin, director of the Freshman Engineering Program

Freshman engineering students at UMR no longer have to wait to do hands-on engineering. This fall some 400 freshmen—roughly half the freshman class—designed, built and tested a human-powered electrical generator. Next semester a new crop of freshmen will take on a similar task.

The projects are the first wide-scale attempt on campus to introduce first-year engineering students to hands-on design, says **Ronald Fannin**, chairman of basic engineering and director of the UMR Freshman Engineering Program.

"Nationally, one of the criticisms of engineering programs has been that we give students two years of the same old math and science before we introduce

them to any applied engineering," says Fannin. "Some students tend to lose interest because their freshman year is like grade 13. But this approach will give students an early idea of what engineering is all about.

"It's an opportunity to give them a sense of the excitement of engineering, as well as to let them see some of the useful products that come from engineering," he says.

The design project is a component of Engineering Graphics, a first-year requirement for engineering majors at UMR. While the design project accounts for only one-third of the work for the course, it complements the class' emphasis on computer-aided design and computer communication skills.



They're not telling us anything we didn't already know!

It comes as no surprise to alumni that UMR is one of the best undergraduate engineering programs in the nation. Now U.S. News knows it, too!

In its first-ever rankings of engineering programs, U.S. News lists UMR as one of the top 50 engineering schools. The ranking is based on a reputational survey of deans and administrators.

"We knew we were good, but sometimes the news doesn't spread too quickly," Robert Mitchell, dean of the School of Engineering, told the St. Louis-Post Dispatch.

Academy awards: New inductees for civil, electrical engineering academies

UMR's two oldest academies—the Academy of Civil Engineering and the Academy of Electrical Engineering—inducted new members last spring.

Inducted into the Academy of Civil Engineering were:

•**Richard T. Berning**, CE'69, chief public works engineer for the city of Springfield, Ill.

•**Richard L. Elgin**, CE'74, '76, president of Elgin Surveying and Engineering Inc. in Rolla and an adjunct professor of civil engineering at UMR.

•**David L. Fenton**, CE'63, '66, '67, of St. Louis, president of EMW International Inc. and UMR's first Ph.D. graduate in civil engineering.

•**James L. Foil**, CE'74, '75, vice president of Burns and McDonnell in Kansas City, Mo.

•**James W. Gorrell**, CE'67, of Mobile, Ala., general manager of Mobile Engineering Brown and Root Inc.

•**William J. Green**, CE'68, '69, of St. Peters, Mo., president of Soil Consultants Inc. of Chesterfield, Mo.

•**Gary L. Hutchison**, CE'74, of Jacksonville, Ill., vice president and chief transportation engineer for Casler, Houser and Hutchison Inc.

•**Gary M. Lee**, CE'71, '74, of Mission, Kan., president and

chief executive officer of E.T. Archer Corp. of Kansas City, Mo.

•**George R. Schillinger**, CE'63, of Sauget, Ill., general manager of Sauget Sanitary Development and Research Association.

Inducted into the Academy of Electrical Engineering were:

•**Walter J. Gajda Jr.**, vice chancellor for Academic Affairs at UMR and former chair of UMR's electrical engineering department.

•**John B. "Jack" McKee**, EE'41, of Glendale, Mo., president and founder of McKee Enterprises and a consultant to Howard Industries of Laurel, Miss.

•**James E. McNabb**, EE'58, of Springfield, Mo., director of the engineering and operations division of Associated Electric Cooperative Inc. in Springfield.

•**Carl R. Ryan**, PhD EE'69, of Cassville, Mo., part-time director of communications systems technology for Motorola Government and Systems Technology Group in Scottsdale, Ariz.

•**Robert J. Wilson**, EE'62, of Oswego, Ill., who is retired from Viskase Corp. of Chicago and is now employed by Vapor-Mark IV Corp. of Niles, Ill.

Mechanical engineers now have academy

Twenty entrepreneurs and corporate leaders were inducted into UMR's newly formed Academy of Mechanical Engineers during Homecoming Week 1995.

The academy includes nine founding members and 11 new members.

Founding members are:

•**James K. Berthold**, ME'60, president of Sunnen Product Co. of St. Louis.

•**Donald W. Capone**, ME'58, vice president for engineering and construction at Union Electric Co. of St. Louis.

•**Patrick G. Davidson**, ME'70, managing partner of Black & Veatch of Overland Park, Kan.

•**Donald G. Fluchel**, ME'72, vice president of Progressive Recovery of Dupo, Ill.

•**Robert D. Freeland**, ME'60, president of Havens Group Inc. of Kansas City, Mo.

•**Richard F. Jordan**, ME'70, president of Paric Corp. of St. Louis and second vice president of the academy.

•**Donald R. McGovern**, ME'58, vice president and general manager of the JAST program at McDonnell Douglas of St. Louis and president of the academy.

•**Charles R. Remington**, ME'49, of Rolla, a professor emeritus of mechanical engineering at UMR and secretary-treasurer of the academy.

•**Gary G. Schumacher**, ME'63, president of Murphy Co.

of St. Louis and first vice president of the academy.

New academy members are:

•**Keith E. Bailey**, ME'64, president, chairman and chief executive officer of The Williams Co. of Tulsa, Okla.

•**George R. Baumgartner**, ME'56, a manager at Ford Motor Co. of Dearborn, Mich.

•**Michael E. Bray**, ME'70, president and CEO of DB Riley Consolidated Inc. of Worcester, Mass.

•**Michael R. Foresman**, ME'67, director of the Remedial Projects Group of the Monsanto Co. of St. Louis.

•**Sidney J. Green**, ME'59, president and founder of Terra Tek Inc. of Salt Lake City.

•**Gary R. Holland**, ME'64, president and founder of Holland and Associates of Minneapolis.

•**Seymour "Sy" Orlofsky**, ME'44, president and founder of Sy Orlofsky Energy Consulting of Houston.

•**Robert C. Perry**, ME'49, retired president of PPG Industries Inc. of Pittsburgh, Pa.

•**Lloyd E. Reuss**, ME'57, retired president of General Motors Inc. of Bloomfield Hills, Mich.

•**Richard J. Vehige**, ME'68, vice president of procurement systems for Southwestern Bell Telephone Co. of St. Louis.

•**Donald E. Wojtkowski**, ME'69, vice president of BJC Health Systems of St. Louis.

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UMR SPORTS UPDATE



Miner Football off to 0-5 start

The 1995 football season has been a case of a young team searching for an identity at UMR. With a squad that possesses just three seniors, the Miners had yet to win a game at the season's midway point.

The Miners lost their season opener 3-0 at Missouri Valley, then opened conference play with four one-sided losses. But the team is not without its bright spots:

- Redshirt freshman running back **Steve Hodson**, who leads the team with 294 yards rushing, became the first freshman in 20 years to rush for 100 yards in a game. He did so against Northwest Missouri State.

- Punter **David McCormack**, also a redshirt freshman, is second in the MIAA in punting and has also seen playing time at quarterback and defensive back.

- Linebacker **Brian Gilmore** leads the defense in tackles with 66 and was also selected to the All-America Farm Team in the September issue of *Successful Farming* magazine. That special issue honored college football players who grew up on farms. The magazine donated a \$1,000 to UMR in Gilmore's name.

Basketball season gets under way

The Miners and Lady Miners hope to improve in the MIAA standings this winter as an influx of new recruits joins a solid returning cast.

The men's team returns center **Jamie Brueggeman** and guard **Tim Holloway**, both of whom were selected honorable mention All-MIAA last season. They will get a boost from two transfers who once played at Iowa Western Community College, **Michael McClain** and **Terry Smith**. McClain played at

the University of Washington for the last two years, while Smith has been out for a year since finishing at Iowa Western.

On the women's side, last year's starting guards **Becky Reichard** and **Christie Williams** and starting center **Heather Hartman** return. **Jen Arnason** and **Ondrea Bermudez**, two key reserves from a year ago, will contend for the other starting roles along with **Beth Ragsdale**, a transfer from Belleville Area College.

Cross Country team wins two meets



The UMR men's cross country team had a strong start as it won its first two meets of the season. The Miners took first at the season-opening Lions' Invitational at Lindenwood College, then followed that with a win in the Cougar Twilight Classic at Southern Illinois University at Edwardsville.

Senior **Bob Etien** has been the top runner for the Miners in the first five meets of the season, taking second at Lindenwood and fifth at SIU-Edwardsville. UMR has also received strong performances from freshman **Matt Hagen**, junior **Ryan Unterreiner**, and sophomore **Ben Mulvaney**. How strong? In the meet at SIUE, the top five UMR runners finished within 45 seconds of one another in the six-kilometer race.

The women's cross country team has been paced by junior **Jennifer Frazer**, who is off to a good start with a second-place effort at Lindenwood and a fifth-place showing at SIUE. Like Etien, Frazer was the top UMR finisher in each of the first five meets. Sophomores **Tracy Jones** and **Jamie Bertchume** also performed well in the first month of the year.

Record set on soccer field

UMR sophomores **Natalie Sanders**, who set a school record for goals scored in a season during her freshman year, and **Amber Fischer**, who set the assist record in 1994, have been staging a battle for the women's soccer career scoring record.



Sanders scored her 26th career goal Sept. 13 in the Lady Miners' 2-0 win over Central Missouri State. That goal tied the mark set in the mid-80s by **Susan Shrum**. It was Sanders' first goal of the season after she had tallied 25 during her first year.

But the record was broken three days later by Fischer, who

now leads the race 30-29 through Homecoming. As of Oct. 7, the Lady Miners were 5-8 on the field.

Meanwhile, the men's soccer team is off to its best start since 1991, with a 7-3-1 record through Homecoming. Sophomore **Gevan McCoy** became

the fifth player in Miner history to score at least 10 goals in a season. He had 11 as of Oct. 7 and ranked among the NCAA Division II scoring leaders. Freshman **Scott Sewell** had added seven goals and three assists to give the Miners a solid one-two scoring punch.



Meanwhile...

The Miner swimming team will have a lot of new faces around as it attempts to win the Mideast Regional Championships for the fourth straight time. The building begins around the foundation of returning junior

Bill Unzicker, an All-America performer as a sophomore, senior **Wade Haggstrom**, and sophomores **Ryan Uptmor** and **Eric Jelinek**. The swimming season started Nov. 4 at Washington University.

1995-96 MINER BASKETBALL SCHEDULE

Nov. 18	at Lyon College (Batesville, Ark.), 7 p.m.
Nov. 21	LINDENWOOD, 7 p.m.
Dec. 1	MISSOURI BAPTIST (Pepsi-Cola/Ameritech Shootout), 5:45 p.m.
Dec. 2	ECKERD (Pepsi-Cola/Ameritech Shootout), 3:30 p.m.
Dec. 6	MARYVILLE, 7:45 p.m.
Dec. 9	WESTMINSTER, 3:30 p.m.
Dec. 16	at Drury (Springfield, Mo.), 2:30 p.m.
Dec. 18	LYON COLLEGE, 7 p.m.
Dec. 29	Central Washington (Seattle, Wash.), 7:30 p.m.
Dec. 30	at Seattle Pacific (Seattle, Wash.), 9:30 p.m.
Jan. 3	at Lincoln (Jefferson City, Mo.), 7:30 p.m.
Jan. 6	at Northwest Missouri State (Maryville, Mo.), 3:30 p.m.
Jan. 10	MISSOURI-ST. LOUIS, 7:45 p.m.
Jan. 13	SOUTHWEST BAPTIST, 7:45 p.m.
Jan. 17	at Northeast Missouri State (Kirksville, Mo.), 7:30 p.m.
Jan. 20	at Pittsburg State (Pittsburg, Kan.), 7:45 p.m.
Jan. 24	WASHBURN, 7:45 p.m.
Jan. 27	CENTRAL MISSOURI STATE, 7:45 p.m.
Feb. 1	EMPORIA STATE, 7:45 p.m.
Feb. 3	at Missouri Southern (Joplin, Mo.), 8 p.m.
Feb. 7	at Missouri Western (St. Joseph, Mo.), 7:30 p.m.
Feb. 10	NORTHWEST MISSOURI STATE, 3:30 p.m.
Feb. 14	at Missouri-St. Louis (St. Louis, Mo.), 7:30 p.m.
Feb. 17	at Southwest Baptist (Bolivar, Mo.), 7:30 p.m.
Feb. 21	NORTHEAST MISSOURI STATE, 7:45 p.m.
Feb. 24	PITTSBURG STATE, 7:45 p.m.
Feb. 27-March 2	MIAA Post-Season Tournament

All times Central

1995-96 LADY MINER BASKETBALL SCHEDULE

Nov. 17	Cameron (Joplin, Mo.), 5:30 p.m.
Nov. 18	Culver-Stockton (Joplin, Mo.), 1:30 p.m.
Nov. 24	MISSISSIPPI UNIV. FOR WOMEN (Howard Johnson/Lady Miner Classic), 8 p.m.
Nov. 25	HENDERSON STATE (Howard Johnson/Lady Miner Classic), 8 p.m.
Nov. 28	at SIU-Edwardsville (Edwardsville, Ill.), 7 p.m.
Dec. 1	Cameron (San Angelo, Texas), 6 p.m.
Dec. 2	at Angelo State, 8 p.m.
Dec. 6	WILLIAM JEWELL, 5:45 p.m.
Dec. 9	HANNIBAL-LAGRANGE, 5:30 p.m.
Dec. 17	at Kansas State (Manhattan, Kan.), 7 p.m.
Jan. 3	at Lincoln (Jefferson City, Mo.), 5:30 p.m.
Jan. 6	at Northwest Missouri State (Maryville, Mo.), 1:30 p.m.
Jan. 10	MISSOURI-ST. LOUIS, 5:45 p.m.
Jan. 13	SOUTHWEST BAPTIST, 5:45 p.m.
Jan. 17	at Northeast Missouri State (Kirksville, Mo.), 5:30 p.m.
Jan. 20	at Pittsburg State (Pittsburg, Kan.), 5:45 p.m.
Jan. 24	WASHBURN, 5:45 p.m.
Jan. 27	CENTRAL MISSOURI STATE, 5:45 p.m.
Feb. 1	EMPORIA STATE, 5:45 p.m.
Feb. 3	at Missouri Southern (Joplin, Mo.), 6 p.m.
Feb. 7	at Missouri Western (St. Joseph, Mo.), 5:30 p.m.
Feb. 10	NORTHWEST MISSOURI STATE, 1:30 p.m.
Feb. 14	at Missouri-St. Louis (St. Louis, Mo.), 5:30 p.m.
Feb. 17	at Southwest Baptist (Bolivar, Mo.), 5:30 p.m.
Feb. 21	NORTHEAST MISSOURI STATE, 5:45 p.m.
Feb. 24	PITTSBURG STATE, 5:45 p.m.
Feb. 26-March 1	MIAA Post-Season Tournament



All times Central

PARENTS OF THE YEAR



The Davenport family, left to right, Allen; Julie, UMR senior in ceramic engineering; Michael, a UMR freshman with an emphasis in ceramic engineering; and Janet.

Graduate gets alumni award from Academy of Civil Engineers

Kami Crane Cozort, CE '85, '86, of San Francisco, received the Exemplary Young Alumni Award from UMR's Academy of Civil Engineers. Cozort, a structures construction engineer for bridge repair for Sverdrup Civil Inc. of San Fran-

cisco, was honored during the academy's annual meeting at UMR in April.

A registered professional engineer in Missouri and California, Cozort also is responsible for Sverdrup's marketing operations in northern California.

Laboratory dedicated to honor Robert Wolf

The metallurgical engineering department recently renamed a laboratory in honor of a longtime professor and former Alumni Association president, **Robert V. Wolf**.

A dedication ceremony for the Robert V. Wolf Metals Casting and Joining Laboratory was held Wednesday, Sept. 20, at the lab in McNutt Hall.

Wolf, ME '51, '52, professor emeritus of metallurgical engineering, retired from UMR in 1994 after 40 years of service to

the school. Upon his retirement, the campus established the Robert V. Wolf Endowment Fund to help support the manufacturing metallurgy program. The \$90,000 fund consists of \$72,500 in donations and pledges from alumni and friends, and \$17,500 in funding from the campus and industry donations. Some of the funds are currently being used to support students and metallurgy laboratories.

A plaque in Wolf's honor now graces the front of the laboratory.

New address/ area code

Effective
Oct. 1, 1995,
the University of
Missouri-Rolla
campus has a
new address and
zip code
for all
correspondence.
This change will
produce a more
effective routing
process and
expedite
distribution,
both outgoing
and incoming.
Please make note
of the new
address.

**University of
Missouri-Rolla
1870 Miner
Circle
Rolla, MO
65409**

Effective
Jan. 1, 1996, the
area code for the
University of
Missouri-Rolla
will change from
314 to 573.

Welcome new board members...

The Board of Directors of the MSM-UMR Alumni Association welcomes the following individuals to the board, effective October 1995, for three-year terms of office:

DIRECTORS-AT-LARGE (represent all alumni)

K. DAN HINKLE '73, President, Owner & Founder - Dan Hinkle; Sugar Land, Texas
DENNIS R. MCGEE '69, Maintenance Superintendent - ISP Minerals; Bixby, Mo.

AREA DIRECTORS (represent alumni living in the zip code ranges indicated)

00000-14999 **ZEBULUN NASH '72**, Plant Manager - Exxon Chemical Co.;
South Orange, N.J.
15000-26999 **GRAHAM G. SUTHERLAND '64**, Executive Vice President -
Eichleay Corp.; Bridgeville, Pa.
37000-45999 **MYRON H. BIDDLE '76**, Materials Manager - Allied Signal Corp.;
Lexington, Ky.
63000-65999 **JAMES L. FOIL '74**, Vice President - Burns & McDonnell; Lee's Summit, Mo.
63000-65999 **ROBERT J. SCHNELL '78**, District Engineer - Union Electric;
Lake Ozark, Mo.
63000-65999 **WILLIS J. WILSON '73**, Manager, Design Group - Burns & McDonnell Waste
Consultants Inc.; Kansas City, Mo.
78000-84999 **TERRY W. DONZE '71**, President & Founder - Donze Exploration Co.
and Donze Petroleum Consulting; Wheat Ridge, Colo.

(Not all areas elected directors this year. If your zip code is not represented, your area director is the same as last year. Zip code area 63000-65999 elects three representatives due to the large number of alumni in this area.)

...and thank you for your service!

To the following alumni who are retiring from the MSM-UMR Alumni Association Board of Directors: Thank you for your service and the contributions you have made to your alumni association.

William Farrell '65
Lisa Gallagher '81
Randy Kerns '74
Dale McHenry '81
Robert C. Perry '49

NOTICE ANYTHING DIFFERENT?

It's not a big change, but it means a lot—the name of this publication is now the MSM-UMR *Alumnus* magazine! The board of directors of the MSM-UMR Alumni Association felt this was more representative of the current alumni body, inclusive of all alumni of this institution. We hope you like the new name!

YOUR OPINIONS MATTER!

Thank you to all of you who replied to various alumni surveys this year! Watch the pages of your MSM-UMR *Alumnus* magazine for results in upcoming issues. We're still receiving some survey responses and we want to include them in the tabulations.

FOUND AT HOMECOMING:

**Brooch - found after Silver & Gold party on Friday, Oct. 6. Call UMR Police at (314) 341-4300 and describe it to claim it!*

**Lady's watch—call the Alumni Office at (314) 341-4145 (after Jan. 1 call (573) 341-4145) and describe it to claim it!*





1995 MSM-UMR Alumni Association Award Winners

Congratulations to the recipients of awards at this year's MSM-UMR Alumni Association Homecoming Awards Banquet

Alumni Achievement Awards

The Alumni Achievement Award is presented in recognition of outstanding personal achievements by alumni in fields of academia, business, professions or civic endeavors.



John G. Bartel, CE'52, Prof'85
Hermann, Mo.
President, Cercon, Inc.



Calvin B. Cobb, ChE'64, '65, '67, Prof'86
Cypress, Texas
President, Wright Killen & Co.



Joseph A. Mickes, CE'58
Jefferson City, Mo.
Chief Engineer, Missouri Highway and Transportation Department

Alumni Merit Awards

The Alumni Merit Award is presented to faculty, friends of the campus, alumni or recipients of honorary degrees for outstanding achievement or service to the campus or the alumni association.



Donald L. Castleman
Rolla, Mo.
President and Chairman, Phelps County Bank



Gregory Junge, CE'65, Itasca, Ill.
Chairman of the Board and Retired President, Itasca Construction Associates



Jack B. Ridley
Rolla, Mo.
Distinguished Teaching Professor of History, UMR

Alumni Service Awards

The Alumni Service Award is presented in recognition of dedicated service by alumni to the university and the alumni association.



Gregory D. McClain, EMgt, ME'72, Prof'93
Cedar Falls, Iowa
Manager, Quality & Materials Engineering Services, John Deere Engine Works



John E. Smith, CE'51
Rolla, Mo.
Retired Cartographer U.S. Geological Survey

Distinguished Young Alumnus Awards

The Distinguished Young Alumnus Award is presented to alumni of 40 years of age or younger who have demonstrated leadership ability, commitment to the service of others, and a high level of achievement in his or her chosen career or profession.



Paul G. Baldetti, EE'81
Troy, Ohio
President, Crane Pumps and Systems Inc.



Robert D. Davinroy, CE'80, '93
Smithton, Ill.
Potamologist, U.S. Army Corps of Engineers, St. Louis District



Gail L. (Dolan) Hahn, ChE'82
St. Charles, Mo.
Group Manager-Engineering, McDonnell Douglas Corp.



Ronald W. Jagels, CE'86, EMgt'91
St. Louis, Mo.
Associate and Transportation Project Manager, Horner & Shifrin, Inc.

Frank H. Mackaman Alumni Volunteer Service Award



Frank B. Conci, CE'54
Benton, Ill.
Retired, Illinois Department of Transportation



Chris W. Ramsay, MetE'83, '85
Labadie, Mo.
Iron and Steel Society Professor and Associate Professor, Metallurgical Engineering

Honorary Life Membership

Honorary Life Membership is presented to an individual in appreciation of important service to the campus and the alumni association. Recipients receive all membership privileges in the association.



Paul E. Jobe
Jefferson City, Mo.
Executive Director Missouri Society of Professional Engineers



John T. Park
Rolla, Mo.
UMR Chancellor

Alumni Excellence in Teaching Award

The Alumni Excellence in Teaching Award is presented to a full-time faculty member who demonstrates excellence in effective teaching efforts. The award is based on voluntary student feedback surveys, and this award is made possible through an endowment established by the Class of 1942.



Steve E. Watkins, EE'83, '85
Salem, Mo.
Assistant Professor, Electrical Engineering

Outstanding Student Advisor Awards

The MSM-UMR Alumni Association honors four current student advisors and recognizes their efforts in assisting students with academic and career decisions.



Charles E. Dare
Rolla, Mo.
Professor, Civil Engineering



W. Lance Haynes
Rolla, Mo.
Associate Professor, Speech and Media Studies



Arvind S. Kumar
Rolla, Mo.
Professor and Chairman, Nuclear Engineering

Outstanding Staff Member Awards

The MSM-UMR Alumni Association honors two current staff members for their outstanding service to the students of UMR. These recipients were selected by the Student Council, from nominations submitted by students.



Dyann A. Careaga
Rolla, Mo.
Secretary, Civil Engineering Department



Donald B. Higginbotham
Rolla, Mo.
Lecturer, Engineering Management

N O M I N A T I O N S

FOR ALUMNI ASSOCIATION BOARD OF DIRECTORS

The MSM-UMR Alumni Association is soliciting names of potential members of the board of directors. To qualify, you must have made a gift to the MSM-UMR Alumni Association in each of the past two years, and you must be an alumnus/alumna of MSM or UMR.

Yes, I'd be interested in serving on the board!

Name: _____ Address: _____

City/State/ZIP: _____ Phone: _____

I'd like to nominate the following for board service:

Name(s) and Class Year(s) (1) _____ (2) _____

You may nominate as many alumni as you wish. Attach extra pages as necessary.

FOR ALUMNI ASSOCIATION AWARDS

It's time again to nominate outstanding alumni for the annual Alumni Awards, to be presented at Homecoming 1996. Nominations are accepted in the following categories:

ALUMNI ACHIEVEMENT AWARD: In recognition of outstanding personal achievements by alumni in fields of academia, business, professions or civic endeavors.

ALUMNI MERIT AWARD: Presented to faculty, friends of the campus, or alumni for outstanding achievement or service to the campus or the alumni association.

ALUMNI SERVICE AWARD: In recognition of dedicated service by alumni to the university and the alumni association.

Just complete and mail the following form to make your nominations for the 1996 awards!

ALUMNI AWARD NOMINATION FORM

I'd like to nominate the following person for the (check one): _____ Alumni Achievement Award _____ Alumni Merit Award
_____ Alumni Service Award

Date: _____ Name: _____ Spouse's Name: _____

Address: _____ Home Phone: _____

City/State/ZIP: _____

Job Title: _____ Name of Company: _____

Address of Company: _____

City/State/ZIP: _____ Bus. Phone: _____

Educational Background—Degrees Received: _____

Other Schools Attended: _____

Brief Professional Resume (Companies worked for-years-highest title): _____

Memberships: Professional Societies, Civic, Community, Service and Social Organizations. Please list any office held. _____

Please attach extra pages to form if you need additional space. Return form to Awards Committee Chairman, MSM-UMR Alumni Association, 115 Castleman Hall, 1870 Miner Circle, Rolla, MO 65409-0650.

ATTENTION SECTIONS:

For more information about nomination of the Frank Mackaman Volunteer Service Award, please contact the Alumni Office, 573-341-4145.



If you would like to get on line with other alumni, send us your e-mail address!

Looking for a job?

The UMR Career Opportunities Center can help! To find out how, please e-mail Marcia Ridley at mr Ridley@umr.edu. Or you can call her at (314) 341-4229 (that will be (573) 341-4229 after Jan. 1, 1996) or write her at 1870 Miner Circle, Rolla, MO 65409-0240.

E-MAIL ADDRESSES

E-mail addresses:

John V. Stutsman, EE'77, JV.STUTSMAN@Accessil.com
Steven B. Null, EE'80, MSEMgt'83.S.NULL@REDWOOD.NSC.COM

World Wide Web

Applying to UMR?

If you know a prospective student who is planning to fill out an application for admission to UMR, it can now be done through the UMR home page at <http://www.umr.edu/>.

UMR's 'piece of the Web'

Go to <http://www.umr.edu/> to find the UMR home page on the World Wide Web, which serves as a "table of contents" to other UMR-related home pages and information about UMR, including the MSM-UMR Alumni Association home page at <http://www.umr.edu/alumni/>. Thanks to the volunteer efforts of Richard Altheide, CSci'84, you'll find information about the association and its history, and more. This is still a "work in progress," so if you don't find what you're looking for there, let us know and we'll try to put it on.

Just for Fun

If you'd like to check out other colleges and universities around the world, to see what they've got on the World Wide Web, go to <http://www.mit.edu:8001/people/cdemello/univ.html>.

Attention alumni returning for St. Pat's

The Central Ozarks Section will host an all-alumni reception prior to the St. Pat's parade on Saturday, March 16, 1996. The reception will run from 8-10 a.m. in the Alumni Lounge, first floor of Castleman Hall, Tenth & Main streets. Join the Central Ozarks Section members for a cash bar of mimosas, Bloody Marys and green beer, along with complimentary danish, doughnuts and coffee courtesy of your MSM-UMR Alumni Association!



St. Pat's green now available

The St. Pat's Celebration Committee announced recently that the 1996 "green" is now available. The traditional kelly green sweatshirt, featuring the winning sweatshirt design, is on the market now, at \$19 (\$20 for size XXL). The committee will have special edition sweatshirts and assorted novelty items (buttons, garters, and others) available as St. Pat's '96 draws closer. For more information, please send a self-addressed stamped envelope to The St. Pat's Committee, Attn: Jim Witt, University Center-West, 1870 Miner Circle, Rolla, Missouri 65409-0770.

You're a member — here's what you get!

As a member of the MSM-UMR Alumni Association, you are entitled to the following opportunities. For further information on purchasing MSM-UMR merchandise or taking advantage of opportunities, please contact the Alumni Office via mail, phone or e-mail. We'll be glad to help.



- *Travel tours—in January 1996, Caribbean cruise, Puerto Plata (Dominican Republic) and Hawaii
- *MSM-UMR watches
- *MSM-UMR rings and pendants
- *MSM-UMR Gold MasterCard
- *UMR license plate, for Missouri residents
- *Rollamo yearbook replacement (as available)
- *Career assistance, through UMR's Career Opportunities Center
- *Access to the Alumni Office via e-mail (alumni@umr.edu)
- *Alumni locator service to help you find lost friends
- *Address update service so you don't miss your MSM-UMR mail

Here's how to contact the Alumni Office:

- by mail: MSM-UMR Alumni Association, Castleman Hall, 1870 Miner Circle, Rolla, MO 65409-0650
- by phone: currently (314) 341-4145; effective Jan. 1, 1996, (573) 341-4145
- by e-mail: alumni@umr.edu

First-ever Student Council alumni reception

In celebrating the milestone 125th Anniversary of MSM-UMR, many alumni revisited their alma mater to remember their college days. While celebrating the tradition of the university, many new goals were incorporated into this year's Homecoming celebration. A primary goal at this year's Homecoming was the facilitation of relations between today's students and yesterday's graduates.

Student Council recognized the need to improve the communication between these groups and responded by creating the Parent Alumni Relations (PAR) Committee. This committee desires to

start a tradition of enhanced student-alumni relations. To set a foundation on which this tradition can begin, the PAR committee sponsored the first-ever Student Council alumni reception. The reception brought together the present Student Council members with the past members from more than 50 years ago. The purpose of the reception was to unite the wisdom of the past with the leadership of the present to form the vision for the future. In addition, friends that were in Student Council together reunited and relived past experiences while catching up on their current lives.

The reception will become an ongoing event at the Homecoming celebration. If you were a member of Student Council while on campus, plan on coming to this reception next year as it is sure to become an important means of communication between past and present members. In addition, the PAR committee plans to achieve many goals. In cooperation with the Alumni Association, the PAR committee will bring a new era to the relations between students and alumni.

(Submitted by Adam Peterson, Student Council Parent/Alumni Relations Committee chair.)

Alumni directors emphasize involving young alumni

At their Homecoming meeting, the MSM-UMR Alumni Association directors discussed ways to involve young alumni more in the association. The directors are looking at many ways to show young alumni how the association can serve them. Some of the activities in place to involve young alumni (including students, as they technically are alumni after completing their first class) follow:

- Encouraging young alumni to serve as section leaders. Many sections currently have young alumni in leadership positions.

- Special events at Homecoming to encourage young alumni with small children to participate. This year's Fieldhouse Feed was a family picnic with a clown, balloon sculptures, face painting, and workshops in juggling, hula hoops and stilt-walking.

- Involvement with the Student Council Parent/Alumni Relations Committee. The association is represented on this committee which works to help students interact with parents and alumni organizations, and helps students learn about the alumni association and how it can help them.

- Formation of the Student Relations Committee of the alumni association. This committee deals with ways to involve and educate students about the alumni association, and also works with ideas for involving young alumni.

- A monthly article in The Missouri Miner, the student newspaper, explaining what the alumni association is, what it does and how it serves students.

These activities are just the beginning of many aimed at further involving students and recent graduates in their alumni association.

Would you like to be a part of an exciting new program?

Student Council, in cooperation with the MSM-UMR Alumni Association, desires to start a program that will help students, alumni and businesses. A mentoring program is greatly needed by the students at MSM-UMR. The idea of this program centers on your participation, and getting the students involved. The program would greatly assist freshman students who are undecided on what engineering field they wish to enter. Also the program would give students a chance to see practical application of the knowledge they are acquiring and the opportunity to make contact with MSM-UMR graduates in business. The program will require you to allow a student to see what you do in a typical day. This will not require an ongoing commitment from you. Would you be interested in participating in this exciting new program? If so please email stuco@umr.edu, fax us at (314) 341-6972 (area code will change to 573 effective 1-1-96) with the following information, or clip and send this to:

Student Council
University of Missouri-Rolla
202 University Center West
1870 Miner Circle
Rolla, MO 65409

Name: _____

Year of graduation: _____

Major: _____

Email: _____

World Wide Web address (if applicable): _____

New endowments accepted

The board of directors of the MSM-UMR Alumni Association accepted four new endowments at their fall meeting held at Homecoming. The new endowments will provide scholarships for UMR's students in several different areas.

Endowments accepted are as follows:

- **Alan L. Finley Memorial Scholarship Fund**—for students majoring in aerospace engineering, with need a consideration

- **Glynn Family Scholarship Fund**—need-based scholarship for students majoring in civil, geological, mechanical or metallurgical engineering

- **Neil K. & Susan M. Smith Athletic Scholarship Fund**—for a Rolla High School graduate enrolling as a freshman at UMR and participating in intercollegiate golf or tennis; need is a consideration

- **John D. Wolf Scholarship Fund**—for students majoring in electrical engineering, with need a consideration.

Thank you to these generous donors for providing this assistance to future students!





Left: Adam Fischer, president of the University of Missouri Board of Curators, Curator Mary Gillespie and UMR Student Council President Keith Blackford unveil 125th commemorative plaque.



Inset: President George Russell speaks at the rededication ceremony

BREAKING NEW GROUND, REF

Homecoming 1995 featured a full slate of activities. It began with the formulation of a new academy—the Academy of Mechanical Engineers—and culminated in our annual awards ceremony that featured tributes to 22 alumni, friends, faculty and staff. And in between was a conference on leadership, a groundbreaking at the Electrical Engineering Building, a 125-year birthday party, departmental receptions and many more activities.

▼ Groundbreaking

Groundbreaking for an addition to the EE Building was held Friday, Oct. 6. Once the addition and renovations are completed in late 1997, the structure will be renamed Emerson Hall in honor of Emerson Electric Co., which contributed \$1 million to the effort.

Among the speakers at the event was Gabriel Skitek, EE'43, '49, EE professor emeritus, who thanked fellow graduate David Wisherd, EE'69, of Spectrian Corp., for donating \$54,000 to the department to make a new electromagnetics laboratory in Skitek's honor.

The building, constructed in 1958, will provide direct access to modern technology, establish new educational space—"design stations" and laboratories—and a new lecture hall, and ensure compliance with environmental regulations.

A total of \$6.9 million in state funds will go into the project. Those funds are part of a \$250 million bond issue approved by Missouri voters in August 1994.



▼ 125th anniversary celebration

Speakers recalled the campus' past and considered the future during the campus rededication ceremony Saturday morning, Oct. 7.

UMR Chancellor John T. Park said the campus would follow a strategy of "continuous improvement" to assure it remains the state's leading technological university, and UMR Student Council President Keith Blackford credited current and past students for helping to bring about many campus improvements.

Also speaking were MSM-UMR Alumni Association President Gerald L. Stevenson, ChE '59, '63, University of Missouri President George Russell and Adam Fischer, president of the University of Missouri Board of Curators. Later, Blackford, Fischer and Curator Mary Gillespie unveiled a plaque commemorating the 125th anniversary. The plaque will be placed on a stone outside the Rolla Building, the oldest building on campus.



Charles R. Remington Jr., ME '49, '50, and retired coach Dewey Allgood, whom Bailey, a former football player, called "the first authority figure I met at MSM"—embodied three leadership principles:

- "A passion for our endeavor."
- Respect and care for "those who choose to follow us."
- "A commitment to the success of those who follow us."

"If we do these three simple things," Bailey said, "then ... we can leave a legacy of having positively affected someone else's life. That, to me, is what true leadership is all about, and the potential is within all of us."

▼ Leadership conference

Leading Homecoming festivities was the first-ever Leadership Conference. During the Thursday, Oct. 5, plenary session, **Keith E. Bailey**, ME '64, chairman, president and CEO of The Williams Companies Inc. of Tulsa, Okla., recalled how a Boy Scout leader, a boss, and two former instructors—professor emeritus

ND, REFLECTING ON THE PAST



Homecoming '95



Left: Groundbreaking for an addition to the EE Building was held Friday, Oct. 6. Left to right, **Jerry McBride**, state representative; **Mark Botterman**, Emerson Electric; Chancellor **John T. Park**, and **Robert Mitchell**, dean of the School of Engineering. Far left: Speaking at the EE groundbreaking is **Gabriel Skitek**, EE '43, '49, EE professor emeritus.



1995 Homecoming Queen, Amanda McBane

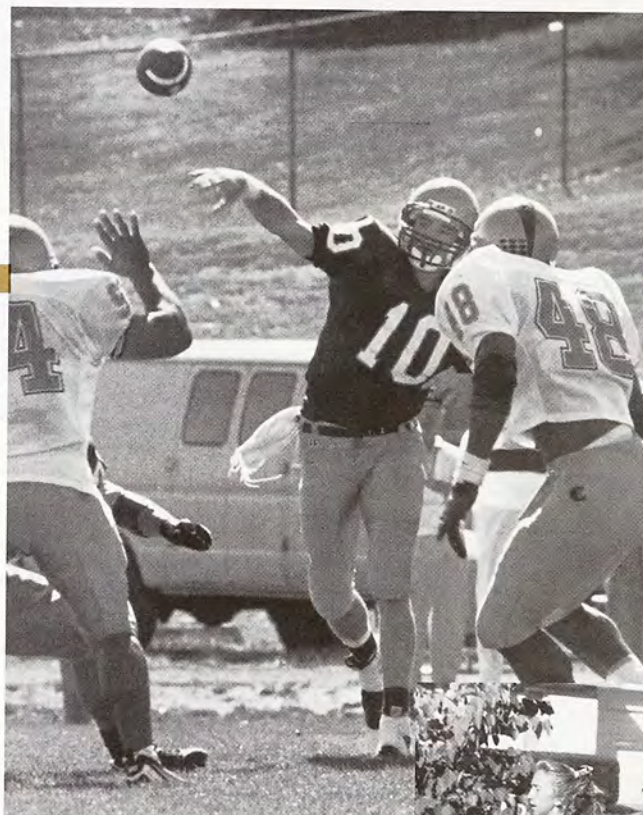


PHOTO: BOB PHELAN

▼ Homecoming royalty

Amanda McBane of St. Joseph, Mo., a senior life sciences major, was chosen UMR's 1995 Homecoming Queen. She is the daughter of Larry and Sherry McBane and was nominated by Kappa Delta.

Members of the queen's court are:

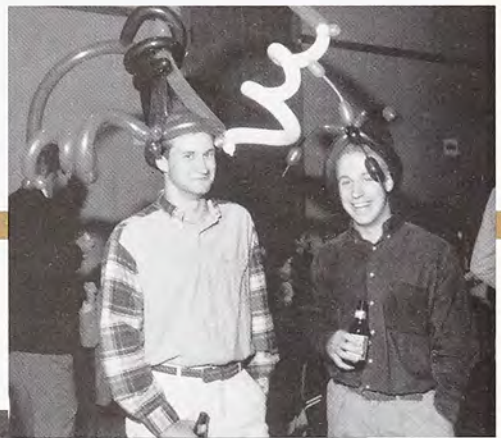
- First runner-up **Kate Gertken** of St. Peters, Mo., a senior in mechanical engineering, the daughter of Richard and Jane Gertken, nominated by Zeta Tau Alpha
- Second runner-up **Lynda Kliewer** of Bridgeton, Mo., a senior in civil engineering, the daughter of Larry and Alys Kliewer, nominated by Sigma Pi.
- Third runner-up **Maja Lundeen** of Burnsville, Minn., a junior in engineering management, the daughter of Cindy Lundeen, nominated by Chi Omega.



Serena Jagtiani, right, runs cross-country during the Miner Invitational.



The Fieldhouse Feed Family Picnic featured entertainment for "Future Miners"—balloon artistry, face painting, and a chance to learn to juggle, hula hoop or walk on stilts.



A sampling of the stylish balloon hats worn by alumni at the Silver and Gold Cocktail Buffet at Homecoming.



Right: More than 20 section leaders enjoyed getting together to share ideas at their breakfast meeting, Saturday, Oct. 6.



HOMECOMING REUNION CLASS PHOTOS



CLASS OF 1935 AND BEFORE (60 YEARS AND BEFORE)

Don Dutton, Ruth Dutton, Vern Asher, Mary Asher, Kay Haymes Zvanut, Frank Zvanut, Elmer Gieseke



50 YEARS AND BEFORE

First row: Norman Tucker, Vernon Asher, Mary Asher, Kay Haymes Zvanut, Frank Zvanut, Elmer Gieseke. Second row: Vernon Kasten, Stacia Kasten, Ammin Tucker, Donald Dutton, Ruth Dutton, Mary Rothband, Paul Rothband, Ida Mae Wolff, Len Wolff, Ollie Cotterill. Third row: Ted Bommer, Dotty Perry, Roy Perry, Russell Gund, Dorothy Romine, Clarke Romine, George Fort, Paul Dowling, Eleanor Dowling, Carl Cotterill, Bill Oberbeck, Doris Oberbeck, Bob Klug, Connie Klug, Rex Alford, Mel Nickel, Mary Lou Nickel, Nicholas Mushovic, Oscar Muskopf. Fourth row: Doug Christensen, Caroline Christensen, Margaret Schoeneberg, Kenneth Schoeneberg, Bob Elgin, Caroline Elgin, John Berwick, Bob Nevins, Hanna Nevins, Pete Mushovic



CLASS OF 1945

Vern Kasten, Stacia Kasten



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CLASS O
Seated on floor
Joyce Schmidt
Second row: F
Don Dieringer
Peggy Peppers
Dottie Branson
Dudley Blanck
Emma Lou Sn
Jack Guth, Jac
Warren Rutz, C
Martha Sims, C
Tom White, N
Bob McGowar



CLASS OF 1940

First row: Russell Gund, Norman Tucker, Amin Tucker, Connie Klug, Bob Klug. Second row: Dorothy Romine, Clarke Romine, George Fort, Eleanor Dowling, Ollie Cotterill, Carl Cotterill. Third row: Dotty Perry, Roy Perry, Rex Alford, Paul Dowling



CLASS OF 1950

Seated on floor : Dell Hollenbach, Madge Hollenbach, Joan Duerr, Elaine Spanier, Larry Spanier, Alden Williams, Lois Williams, Joyce Schmidt (in front), Art Schmidt (in front), Dorothy Brown (behind the Schmidts), Jerie Hollingsworth, Lauretta Kronauge. Second row: Paul Huber (end), Clarence Isbell, Sid Duerr (behind wife), Cecil Hollingsworth (kneeling behind wife), David MacDonald, Don Dieringer (striped shirt). Third row: Lorraine Dieringer, Marge Huber (jacket), Betty Isbell, Peggy Wolfram, Ralph Wolfram, Peggy Peppers, Bob Peppers, Betty Acheson, Ed Acheson, Patty Main, Bill Main, David Anderson. Fourth row: Paul Schmitz, Dottie Branson, Donald Branson, Barbara Barsachs, Edwin Barsachs, Laurabel Severson, Vernon Severson, Lary Cantwell, Jo Cantwell, Dudley Blancke. Fifth row: Tom Herrman, Bunny Herrman, Lorraine Spackler, Carl Zerweck, Jean Zerweck, Marianna Timlin, James Timlin, Emma Lou Smith, Robert Smith (jacket), Bob Wood. Sixth row: Harold Theerman, Marie Theerman, Denise Guth (behind Marie Theerman), Jack Guth, Jack Painter, Dick Hunt, Irvin Hawkins. Seventh row: Bob Strain, Andy Andreason, John Flynn, Dick Moeller, William Vark, Warren Rutz, Gerald Brun, Amber Brady, John Heman, Betty Heman, Colleen Huckshold (hat), Aaron Greenberg. Eighth row: Alvera Strain, Martha Sims, Geraldine Flynn, Carol Tunncliff, Gloria Kunz, Bennett Howell, Betty Mabie, Ginny Mattlage, Mary McGowan, Jackie White, Tom White. Ninth row: Dale Sims, Clarence Tunncliff, Charles Kunz, Dick Marting, Betty Marting, George Mabie, Ray Mattlage, Bob McGowan



CLASS OF 1955

First row: Carol Mullen, Lizzie Mullen, Erin Mullen. Second row: Bob Stimson, Oneeta Stimson, Sara Mullen, Kevin Mullen (child), James Mullen, Chuck Germer, Evelyn Schuman, Willie Schuman, John Padan, Dorothy Lidster, Bill Lidster. Third row: Royal Webster, Ana Maria Webster, Art Baebler, Ivy Baebler, John McCarthy, Cam Barnds, Laura Rethmeyer, Ronnie Padan, Jim Rethmeyer, Richard Jones. Fourth row: Bob Oetting, Tommie Oetting, Helen Broaddus, Pat Broaddus, Katie Berg, Richard Berg, Ray Pfaff, Jim Franklin, Marge Sutton, Janis Jones. Fifth row: Pete Weitzel, Jan Weitzel, Jim Elswick, James Hespen, Leslie Sutton



CLASS OF 1960

First row: Mike Vancil, Debbie Vancil, Jim Colwell, Judy Colwell, Lelia Flagg. Second Row: Ron Laffler, Regina Laffler, Joyce Woodward, John Woodward, Connie Byrne, Bill Byrne, Henry Douglas, Martin Rogers. Third row: Kenneth Wood, Ramona Wood, Mike Kearney, Jo Kearney, Judy Walther, Jim Walther, Alex Pawlowski. Fourth row: John Claypool, Keith Loeffler, Jerry Gilmore, Herbert Schroer, Louise Schroer, Paul Benz, Louis Rephlo



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CLASS OF 1965

First row: Carl Reichert, Helga Gross, Linda Heuer, Bettye Munson, Ann Mulyca, Kelly Mulyca, Stephan Mulyca, Walt Mulyca (behind Stephan). Second row: Betty Reichert, Fred Gross, Milt Bradley, Barry Heuer, Bill Munson, Barton Regelbrugge, Sylvia Regelbrugge, Gloria Junge, Greg Junge



CLASS OF 1970

First row: Phillip Matoesian, Steve Matoesian, Eric Pietrzak, Gayle Pietrzak, Kathy Kalbac. Second row: Juri Jussyp, Nancy Jussyp, Terry Albrecht, Roland Albrecht, Mary Pietrzak, Paul Pietrzak, Ray Kalbac, Patsy Kalbac, Liz Kalbac. Third row: Martha Ethridge, Max Ethridge, Roger LaBoube, Karen LaBoube, Keith Wedge, Bobbie Wedge, Dorothy Potzmann, Eric Potzmann (behind Dorothy, son). Fourth row: David Matoesian, Janet Matoesian, Bonnie Hoeckelman, Helen VonDemfange, Walter VonDemfange, Earl Thompson, Charles Latty, Clark Potzmann. Fifth row: Larry Leuschke, Barbara Leuschke, Leslie Hoeckelman, Dennis Jaggi, Frank Doering, Barbara Doering, Earl Burk, Kenneth Johnson





CLASS OF 1975

First row: Joshua Tmka (child), Chuck Tmka, Val McLean, Richard McLean, Roger McCloud. Second row: Mary Lee Tmka, Raymond Prater, Lance Overmyer



CLASS OF 1980

*First row: Ben Wesselschmidt, Sam Wesselschmidt, Stephanie Chambers, Karen Chambers.
Second row: Keith Wesselschmidt, Katie Wesselschmidt, Terry Walden, Dan Walden, Diane Chambers.
Third row: Robert Wille, Dennis Struempfler, Linda Struempfler, Brad Brown, Robert Chambers*





CLASS OF 1985

First row: Xavier DuMaine, Maxine DuMaine, Nicole DuMaine, James Feiner, Zachary Sanderson, Jordan Sanderson, Laura Davis, Kyle Davis. Second row: Jessica DuMaine, Tyler Spence (baby), Anne Spence, Jonathan Feiner (in front of his mother), Maria Feiner, Karen Sanderson, Sherry Davis, Becky Russell, Julie Stansfield (holding Adam Stansfield). Third row: , Ron LaManque, Deborah LaManque, Loyd Spence, Deirk Feiner, Jerry Sanderson, Scott Davis, Joe Gamm, John Stansfield.



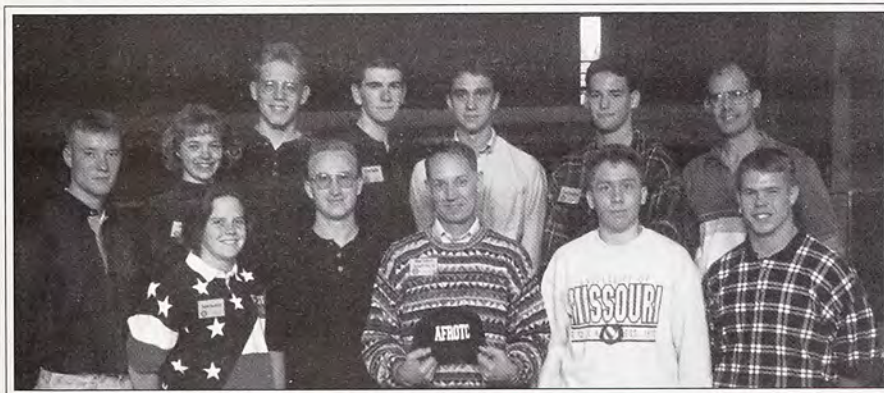
ADDITIONAL 1985

Shamsher Prakash, Sally Prakash



CLASS OF 1990

Nancy Matteone,
LeAnn Herren,
Marylou Shomaker,
Bob Phillips,
Kathy Stone Phillips



AIR FORCE ROTC

First row: Cadet Tom Knaust, Cadet Cathy Vomberg, Cadet Danny Fields, Major General Richard Paul, Cadet Chris Mayberry, Cadet Jeremy Lane. Second row: Cadet Chris Willard, Cadet Mike Nicosia, Cadet Patrick Maddox, Cadet Tim Gasmire, Cadet Bill Quashnock, Lieutenant Colonel John Sullivan



ALUMNI SECTIONS

Ark-La-Tex

John Moscari Jr., '51
503 Coleman
Longview, TX 75601
(903) 753-7786

The summer meeting of the **Ark-La-Tex Section** was held on July 15. We began with a social hour at the home of John '39 and Eilyeen Livingston near Elm Grove, La. The Livingstons were gracious hosts and made everyone feel at home.

At 7 p.m., the 29 alums reassembled at the Barksdale Air Force Base Officers Club in Bossier City, La. An outstanding dinner of prime rib and seafood wellington was served. After dinner, section president John Moscari '51 conducted the business meeting. Secretary/treasurer Gene Rand '62 read the minutes of the last meeting and gave the treasurer's report. John Livingston gave a presentation about the history of the Ark-La-Tex Section, which was organized in June 1953. Moscari then presented the Livingstons with a painting of their Elm Grove home.

The next meeting was scheduled for Oct. 21 in Longview, Texas. (Submitted by Gene Rand '62.)

Attending: Ed '92 and Susan '91, '93 Caselton; Basil '39 and Clydelle Compton; Ken '53 and Barbara Gereau; Chuck and Genie Johnson; Gene '62 and Judy Rand; Jack and Billie Meghan; John '39 and Eilyeen Livingston; John '51 and Loretta Moscari; Walt '65 and Anna Mulyca; Walter '34 and Helen Bruening; Jerry '82 and Tammy Poland; Louise Patton; Charles '92 and Julie Misner; Gerald '28 and Leona Roberts.



Bob Wilson (far right) hosted alumni, students and friends at the Chicago Section send-off picnic July 22, 1995.

Chicago

Deirk, '85 and Maria '85, Feiner
217 Green Mountain Drive
Bolingbrook, IL 60449
(815) 739-7977

The **Chicago Section** held a freshman send-off picnic and alumni get-together on Saturday, July 22, at Robert '62 and Julia Wilson's home. Sixty alumni and new and current students gathered for lunch and an afternoon of getting acquainted.

Alumni attending: Kathy Andersen '79; James Anderson '94; Jim Clifford '77; Robert Fleckal '69; Greg Kiaer '84; Joe '70 and Sandi '70 McBride; Daniel McClure '90; Bob Morrison '71; Mike Weiss '77; and Bob Wilson '62.

Dallas/Ft. Worth

Stephen, '92, and Stephanie, '92
Puljak
418 Castlewood Dr.
Garland, TX 75040
(214) 276-9921

The **Dallas/Ft. Worth Section** attended a major league baseball game at the ballpark in Arlington on Saturday, Aug. 12. The Texas Rangers played the Toronto Blue Jays. Eighteen alumni and spouses attended the event. The weather for the event was pleasant. We watched the Texas Rangers beat the Toronto Blue Jays by a score of 6-3. Despite the low alumni attendance, the event was a success. Those who attended enjoyed themselves and more events are

Below: members of the Oklahoma alumni chapter enjoy horse racing and camaraderie at the Fairmeadows race track in Tulsa, Okla.



planned for the future. (Submitted by Warren Unk '91, '93.)

Many of the alumni who attended are listed: Deanna Valentino '92; Suzanne Reeves '93; Stephanie Puljak '92; Mr. & Mrs. Warren Hagen '50; David '91, and Becky Hemmer; Glenn '83 and Mindy '84 Brand; Randy & Natalie '93 Bourgeois; Mark Cureton '91; Henry Bredenkamp Jr. '86; and Warren Unk '91 '93.

Oklahoma

Ron LaManque, '85
7807 S. Florence
Tulsa, OK 74136
(918) 488-8345

The first **Oklahoma Section** race night on Aug. 16 was a great success. More than 40 alumni and spouses came out to Fairmeadows race track in Tulsa, Okla., to enjoy an evening of horse racing and camaraderie. The diversity of the alumni that came was great, with the classes of '39 and '94 represented as well as many years in between,

and also a number of new faces attended. The night started with dinner and drinks and then quickly moved to betting on our favorite horses. I am not sure that anyone won money, but everyone had a lot of fun and met some new people. It went over so well it looks like it could become an annual event. (Submitted by Craig Bailey '90.)

The **Oklahoma Section** of the MSM-UMR Alumni Association held its annual "Student Send-Off Party" July 23. Fifteen alumni/spouses and 10 UMR students attended the event. The event was planned and hosted by Oklahoma Section President Ron LaManque '85 and his wife, Deb. The party was held at the Ridgewood Clubhouse in Tulsa. Ron welcomed alumni, spouses, UMR students, and special guests Steve Thies '72, area director, and Jenny Bayless '89, UMR coordinator, alumni-admissions.



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St. Louis Douglas

McDonnell

Alice Gilbert,
2614 Horsham
St. Charles, M

St. Louis:

Ted Medler,
527 Golden W
St. Louis, MO
(314) 892-33

The St.

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Georgia

David Ziegler,
1531 Hunting
Marietta, GA
(404) 425-09

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The attendees enjoyed a terrific spread of treats prepared by the alumni, swimming in the clubhouse pool, and the good company of those who attended. A great time was had by all. Glen '70, and Nancy Larsen also attended.

St. Louis/McDonnell Douglas

McDonnell Douglas:

Alice Gilbert, '84
2614 Horseshoe Ridge
St. Charles, MO 63303

St. Louis:

Ted Medler, '86
527 Golden Valley Dr.
St. Louis, MO 63129
(314) 892-3306

The St. Louis and McDonnell Douglas sections attended a St. Louis Cardinals baseball game on June 23. The evening was a big hit with those who attended and was topped off with a Cardinals victory. (Submitted by Christina Sfredo '94.)

Attending: Ron Jagels '86, '91 and guests; Scott Nall '86; Amber (Ockree) '93 and Mike '93 Bahr; L.G. Loos '77, '82; Mike '84 and Connie Zeltmann; Ted '86 and Sandy Medler and guests; Paul Fleischut '85 and guests; and Christina Sfredo '94.

Georgia

David Ziegler, '85
1531 Huntington Dr.
Marietta, GA 30066
(404) 425-0971

On March 18, the Georgia Section of the MSM-UMR Alumni Association held a meeting hosted by Donnell '35 and Ruth Dutton. The event was attended by 18 (Georgia) MSM-UMR Alumni and spouses, including Pat Broaddus (association vice president) and his wife, Helen.

After dinner, George Leck '61 opened the meeting. Dick Kahl, member-at-large and Georgia Section alumni scholarship liaison, reported on the status of his 1995 scholarship nominee ef-

(Continued on the next page)

ALUMNI HELP OPEN ALUMNUS' ART GALLERY



Welcoming the opening of the Queen's Neighbor Art Gallery in Jerome, Ariz., are, left to right: Joe Reiss '49, Ann Kennedy (Gene '51), Joe Gray '54, Carolyn Petersen (Dave '48), Bill Hallett '55 and Harold Theeman '50.

Thirty-eight MSM-UMR alumni and spouses showed up to welcome The Queen's Neighbor Art Gallery on the art scene in Jerome, Ariz. The gallery was officially introduced to the world with a grand opening from 5 to 8 p.m. May 22. It is located at 310 Queen St. in Jerome, Ariz., famous as the mining town which slid down the hillside. It is now an art colony and tourist mecca.

The Queen's Neighbor features art by owner Jack E. Guth '50 and other regional artists.

In addition to the 38 MSM-UMR alumni and spouses, at least another 38-plus members of Jack's family, former associates from the former U.S. Coast and Geodetic Survey (now part of the National Oceanic and Atmospheric Administration) and local Jerome luminaries joined the Rolla group in celebrating this grand event. Twenty of the MSM-UMR contingent were Gamma Xi Chapter Sigma Nu alumni. One Kappa Sigma alumnus and his wife were dubbed honorary Sigma Nus for this event.

Hard-core partygoers began to gather on Saturday before the opening to acclimatize to Jerome's 5,000-feet-above-sea-level altitude. Others trickled in on Sunday and most stayed until Wednesday. Festivities included grilled hamburgers, hors d'oeuvres, sightseeing (the Verde Valley, Sedona and San Francisco Peaks all are visible from the gallery), shopping (Jerome and Sedona have great shops), reminiscing about days past at Rolla, golf, live music and of course, liquid refreshments. Jack says that when you're in the neighborhood please stop and buy something—he needs the business to help pay for the party.

A great time was had by everyone there and we all wish Jack and Denise every success in their new venture. (Submitted by Bill Hallett '55.)

Attending were John '51 and Jacque Brillos; Dick '51 and Jan Bullock; Jim '48 and Betty Chaney; Sherman and Marge Dempsey; Joe '54 and Edie Gray; Jack '50 and Denise Guth; Joel Guth; Bill '55 and



Above: Jack Guth '50.

Jane Hallett; Don Johnson '50; Gene '51 and Ann Kennedy; Walter '49 and Shirley Knecht; Dan '52 and Shirley Martin; Dick Moeller '50; Dave '48 and Carolyn Petersen; Joe '49 and Jan Reiss; Bob '56 and Carol Robbins; Lorraine Spackler (Don '50); Ron '47 and Mary Tappmeyer; Bruce '51 and Anita Tarrantola; Harold '50 and Marie Theerman; Carl '50 and Jean Zerweck.

ALUMNI SECTIONS



forts. Some 330 letters were sent to Georgia students expressing an interest in attending UMR. From those responding, the award has been offered to an applicant from Cartersville. The applicant's name has been submitted to the admissions office in Rolla. Should this candidate decline, the next most qualified student will receive the award.

Pat Broadus reported that he had represented the Georgia section at Homecoming activities last fall in Rolla, and volunteered to continue this function as long as he is present at the event, and in the case that no other Georgia alums are attending.

Donnel Dutton proposed that the Georgia Section organize an event at the Allatoona Yacht Club, where the Duttons are members, especially if any other alumni would volunteer additional boats to help host such an outing. It was later suggested that the Army Corps of Engineers facility on the lake would be a viable alternative; Dick Kahl arranged for the Georgia Section to use this area for a previous function.

David Ziegler '85 '87 reported on efforts to have a plant tour (of the Anheuser-Busch Budweiser Brewery in Cartersville) as a St. Pat's Event. Plant tours were not available for March 1995, but will start later this year. Georgia alums should plan in advance for a possible group tour/picnic for St. Pat's 1996, the **BEST EVER!!!!**

On July 23, the Georgia Section of the MSM-UMR Alumni Association held a meeting, hosted by Randy Rick '74, in Dahlo-nega, Ga. The event was attended by 13 (Georgia) MSM-UMR alumni and spouses.

After dinner, George Leck '61

opened the meeting. Dick Kahl '63 '69 member-at-large and Georgia Section alumni scholarship liaison, reported on the status of his 1995 scholarship nominee efforts.

Leck nominated David Ziegler for president of the Georgia Section for 1996. A nominee for the position of secretary/treasurer was not named. An autumn meeting will be announced later, at which time we will vote. (Submitted by David Ziegler '85 '87.)

McDonnell Douglas

Alice Gilbert, '84
2614 Horseshoe Ridge
St. Charles, MO 63303

Even though the fireplace did more smoldering than burning, the second annual McDonnell Douglas-UMR Section St. Pat's party was another "good-time-had-by-all."

The event was held on Saturday, March 4, at the Riverwood Place Clubhouse. The food was great (was that really spinach?) and the conversation primed us for St. Pat's. Maybe it's a good thing that the wood didn't burn — some of the participants in the games added so much energy and heat that everyone was warm and toasty. Approximately 20 were in attendance.

West Texas Section

Michael Party
6209 Driftwood
Midland, Texas 79707
(915) 694-9787

On Aug. 5, members of the West Texas Section gathered to watch the Midland Angels play baseball at Max Christensen Stadium.

Everyone enjoyed the food and refreshments during the picnic part of the evening, even if the cotton candy appeared to have been run over by a car. Along about the fourth inning the group moved to our seats down the left field line. Upon arriving at our seats we discovered how high we were when Alan Means developed a nose bleed from the

high altitude!!! We had to be at least 12 rows up from the field. Alan has been in the flatlands of Midland too long! Even though the Midland Angels ended up losing the game in the late innings, everyone enjoyed the evening.

The West Texas Section is proud to report that Amee Lin Rhoades, our first alumni scholarship recipient, is at UMR and attending classes. Rhoades is from Lubbock, where she attended Coronado High School and graduated 22nd out of 500. She plans to major in aerospace engineer-

ing, and may be the first aerospace engineering major to also play the oboe! We have heard that Rhoades is now learning to play the bagpipes at Rolla. We wish her the best of luck in all her endeavors at Rolla. (Submitted by Michael Party '78.)

Attending: Sal Pagano '73; Alan Means '80; Andy Rickard '83 with son Erik; Mike '83, '85 and Jeniffer Moylett; Clyde Finch '66; Scott Wehner '80; Tim '83 and Gina Speer with son Ryan and daughter Jill; Mike '78 and Cathie Party with sons Robby and Michael and daughter Lauren.

ALUMNI HAVE EVENT FITTING FOR A KING

The areas around Washington — from Baltimore, Md., in the north to King George, Va., in the south — were represented by a group of alumni at a get-together for fun, fellowship and a picnic dinner at the home of Earl '43 and Olga Biermann overlooking the Potomac River in King George on Sept. 16.

Don Brackhahn, director of alumni and constituent relations, and his wife Nancy, and Tom Webb, development officer, attended the event. Twenty-two alumni from the D.C. area, their spouses, friends and children added up to a total of 53 people — the largest group ever attending at the Biermann home. (They've hosted events in 1987, 1988, 1989, 1990, and 1994). Before the meal, a group of about 25 toured Camillo Vineyard and amateur winery, where they watched the crushing and pressing of about 700 pounds of Cabernet Franc grapes, starting the process for about 52 gallons of fine red wine. Tom Iazzi, the owner and oenologist, answered many questions relative to the operation of the vineyard, including planting, pruning, spraying, picking and processing of the grapes into wine. Iazzi served as president of the American Wine Society and has been on the gov-

ernor's board for the promotion of the wine industry in Virginia for the past six years.

After the tour, those so moved and able to navigate the path walked down to the river to just enjoy the two-mile wide river, skip stones on the water, look for sharks' teeth and pick up shells and pretty rocks. The children also made good use of the lap pool. A picnic dinner (barbecued chicken, kielbasa, hot dogs, etc., a variety of desserts and homemade wine) was prepared by Olga and daughter Kathryn. Brackhahn spoke to the group about new programs, facilities, personnel, realignment of departments, equipment, computers, laboratories and their importance to the development of advanced technologies at Rolla. He further discussed new programs to provide staff assistance and encouragement to students having trouble keeping up their grades by developing better study habits, including budgeting their time to better advantage.

The alumni in attendance included but a fraction of all those in the D.C. area but there was a fair representation. There is no formal MSM-UMR alumni section in the D.C. area, which would include officers and recognition by the MSM-UMR Alumni Asso-

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Alumni and friends in the D.C. area visited the Camillo Vineyard and Winery Sept. 16, 1995.

ciation. Brackhahn appealed to the group for volunteers to establish a formal organization. He was successful in getting seven alumni to volunteer. He said that he would be in contact with these people to set up an organization. Those volunteering are: Archie Gallup '94, Bob Scanlon '73, John Piggott '94, Eric Hoehn '86, Lisa Stiles '94, Charles McGrady '67, and Robyn Little '94. (submitted by Earl Biermann '43.)

Those attending: Ed Fris '43; Leonard '43 and Mrs. Larson; Earl '43 and Olga Biermann; John '49

and Kelly Toomey; Robert '59 and Irene McIntyre; Glenn '64 and Dottie VanDoren; Charles '67 and Sally Ann McGrady; Jerry '68 and Mary Bergfeld; Michael Hunt '69 and Dona Dickerson; Vicki Andreae '70; Archibald '71 and Nancy Gallup Sr.; Robert '73 and Janet Scanlon; Gary '74 and Louise Gaal; Tom '78 and Linda Fennessey; Christopher '83 and Jill Johnson;

Don and Sheila '83 (McDonnell) Owen; Eric Hoehn '86; Archie '94; and Lisa Gallup; John Piggott '94, Robyn Little '94; Lisa Stiles '94; Don and Nancy Brackhahn; Tom Webb; and Mark Harris.

CORRECTION...



In the Corporate Leadership issue of the MSM-UMR *Alumnus* the Dallas/Ft Worth section photo (above) was inadvertently placed with the Ark-La-Tex Section. We apologize for this error.

LOOK WHAT'S AVAILABLE AT THE UMR BOOKSTORE!



FOR MORE INFORMATION OR TO RECEIVE
A FLYER OF ITEMS YOU CAN PURCHASE
CALL 1-800-431-7778

or write to

UMR BOOKSTORE,
UNIVERSITY CENTER WEST,
1870 MINER CIRCLE
ROLLA MO 65409-0610

This notice is presented as a service to our alumni

ALUMNI SECTIONS



ATTENTION SHUTTERBUGS

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



AROUND THE COUNTRY

UPCOMING MINER ALUMNI EVENTS

WHEN	EVENT	WHOM DO I CONTACT?
DEC.	2 Admissions Reception, Paducah, KY	Alumni Office, 314-341-4145
	3 Admissions Reception, Sikeston, MO	Alumni Office, 314-341-4145
	9 Admissions Reception, Springfield, IL	Alumni Office, 314-341-4145
	10 Admissions Reception, St. Peters, MO	Tom Ellis '75, 314-225-9174 (H)
	10 Central Ozarks Section Champagne Brunch, Rolla, MO	Merrill Stevens '83, 314-341-6936 (B)
	16 Commencement, Rolla, MO	
TBA	Pacific NW Basketball Tournament, Seattle, WA	Alumni Office, 314-341-4145
JAN. '96	12 Admissions Reception, St. Louis (McDonnell Douglas)	Alumni Office, 573-341-4145
	14 Admissions Reception, Rolla, MO	Alumni Office, 573-341-4145
	20 Ark-La-Tex Section, Longview, Texas	John Moscari '51, 903-753-7786 (H)
	20 Admissions Reception, Southern Ohio	Alumni Office, 573-341-4145
	21 Admissions Reception, Southern Ohio	Alumni Office, 573-341-4145
	28 Admissions Reception, Oklahoma City (Delhi)	Alumni Office, 573-341-4145
TBA	St. Louis Section Hockey Game, St. Louis, MO	Paul Fleischut '85, 314-231-5400 (B)
FEB. '96	7 Kansas City Section Basketball, Kansas City, MO	Joseph F. Reichert '59, 816-274-2069 (B)
	10 Dallas/Ft. Worth Section Hockey Game, Dallas, TX	Steve & Stephanie Puljak '92, 214-276-9921 (H)
	14 St. Louis Section Basketball, St. Louis, MO	David Zimmerman '89, 314-532-1050 (B)
	17 African American Committee Meeting, Rolla, MO	Alumni Office, 573-341-4145
MARCH '96	9 Kansas City Section St. Pat's, Kansas City, MO	Joseph F. Reichert '59, 816-274-2069 (B)
	12 SME Alumni Reception, Phoenix, AZ	Alumni Office, 573-341-4145
	15-16 Campus St. Pat's activities, Rolla, MO	
	16 Central Ozarks Section St. Pat's, Rolla, MO	Dennis McGee '69, 314-626-4422 (H)
	16 Georgia Section St. Pat's	George W. Leck '61, 404-938-6446 (H)
	TBA Houston Section St. Pat's, Houston, TX	Nicole Talbot '77, 713-489-0391 (H)
	TBA Oklahoma Section St. Pat's, Tulsa, OK	Ronald G. LaManque '85, 918-488-8345 (H)
TBA	St. Louis Section St. Pat's, St. Louis, MO	Alissa Gallagher '81, 314-968-6851 (H)
APRIL '96	15 Ark-La-Tex Section, Longview, TX	John Moscari '51, 903-753-7786 (H)
	TBA St. Louis Section Hockey Game or Brewery Tour, St. Louis, MO	Paul Fleischut '85, 314-231-5400 (B)

FUTURE DATES FOR HOMECOMING:

October 4-5, 1996

October 2-3, 1998*

October 6-7, 2000*

October 10-11, 1997*

October 1-2, 1999*

*tentative

TBA = To Be Announced

1931

• George M. ... spend the w... and the sum... address, wh... Road, Cincin... address, 2... Manchester... dress, 708 B... Placid, FL 3...

1937

• Walter L. ... moved from... be close to o... good health... grandchild... Monterey Ba...

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• William C. ... "Dot and I ce... ding annivers... daughter, Ly... Calif., with F... A. North, Sh... degree in bic... 4 and 7."

1941

• Nathan D. ... "We're histo... from Con... Elderhostel o... Lewis and Cl... 06. Thus, o... Columbia-St... campsite."

1943

• H. W. Flo... has retired a... chemical eng... versity of Mas... appointed to... neering mer... Registration... Engineers in... sion of Regis...

ALUMNI NOTES

1931

• **George M. Pace**, CE, writes, "I spend the winter months in Florida and the summer in OH at my city address, which is 7083 Paddison Road, Cincinnati, Ohio 45230; Farm address, 2508 Clayton Road, Manchester, OH 45144; Florida address, 708 Lake Blue Drive, Lake Placid, FL 33852."

1937

• **Walter L. Holz**, ME, writes, "We moved from Illinois to California to be close to our family. We are both in good health and enjoying our six grandchildren and sailing on Monterey Bay."

1940

• **William C. Alexander**, EE, writes, "Dot and I celebrated our 50th wedding anniversary Dec. 9, 1995. Our daughter, Lynett, lives in Woodland, Calif., with her husband, Dr. James A. North. She has a master of science degree in biology and has sons ages 4 and 7."

1941

• **Nathan D. Jaffe**, MetE, writes, "We're history buffs. Janet is back from Concordia College on Elderhostel on the Oregon Trail and Lewis and Clark Expedition of 1803-06. Thus, one week up and down Columbia-Snake River to visit their campsite."

1943

• **H. W. Flood**, ChE, ProfChE, '74, has retired as professor emeritus of chemical engineering from the University of Massachusetts and has been appointed to be the chemical engineering member of the Board of Registration of Land Surveyors and Engineers in the Massachusetts Division of Registration.

Thirties

1944

• **Edmund J. Waltenspiel**, CE, writes, "Enjoying retirement, working with the Elks Lodge and other charitable operations."

1946

• **Jose A. Machado**, MinE, ProfGeoE '83, writes, "I finished the consulting work for Saudi Arabia SSSP and am back in the USA." He and Martha live in Oklahoma.

1948

• **Robert M. Rock**, MetE, enjoys retirement and currently is assisting in re-translations of the Bible using the Dead Sea Scrolls and Nag Hammadi scrolls in Egypt. He writes, "It is still okay to drink a few beers and enjoy my friends."

1949

• **Charles A. Bottermuller**, CE, and Marjorie have a new granddaughter, Megan Lee Bottermuller, born May 26, 1995, in Dayton, Ohio. • **Jesse W. Bowen Jr.**, EE, attended his World War II Army Air Corps reunion in England, France and Germany to celebrate the 50th anniversary of V-E Day. • **John J. Mulligan**, MGeo, resigned as president of the Alaska-Dano Mines Co. He writes, "Other commitments left no time to manage the affairs. I traveled two months in Ireland. From Kerry to the Wicklow Hills is a great place to prospect for massive sulfide and related deposits. Evidences of ancient mining are abundant and widespread." • **Landon C. Viles**, CE, writes, "We're happy to be back in the lower 48 having just done the Alcan Highway."

Fifties

1950

• **Avery A. Drake Jr.**, MGeo, MSMGeo '52, received the 1994 Distinguished Service Award from the U.S. Geological Survey for outstanding contributions toward understanding the geology of the Appalachian Mountains. Avery has been with the USGS since 1952. • **Eugene A. Bartels**, CE, writes, "Just finished my first 10 years of retirement and am enjoying every moment of it. Sorry that I will not be able to go to the 45th Reunion. Perhaps the 50th."



ATTENTION CLASS OF 1946

MAKE PLANS NOW TO ATTEND YOUR
GOLDEN ALUMNI REUNION,
THURSDAY, MAY 9, THROUGH SATURDAY, MAY 11, 1996
IT PROMISES TO BE THE EVENT OF A LIFETIME—DON'T MISS IT!!

1951

• **William Tsai**, MinE, retired from EIMCO in San Mateo, Calif., and is now a consultant.

1952

• **Edward L. Calcaterra**, CE, ProfCE '94, will retire as president of J.S. Alberici Construction of St. Louis early next year after 40 years with the company.

1955

• **Laszlo F. Zala**, EE, received one of NASA's highest honors — the Exceptional Achievement Medal for outstanding engineering leadership and dedicated service in support of the Internal Operations and Protective Services Group of the Lewis Research Center in Cleveland, Ohio — in June 1995. • **Herman A. Ray**, CE, moved to Alabama on Sept. 1. His new address is 28 Vista Wood Drive, Still Waters Resort, Dadeville, AL 36853.

1956

• **Allen H. Rudolph**, ME, retired May 1, 1995, after 37 years with the Central Illinois Public Service Co. He moved to 2076 Bayonne Drive, St. Charles, MO 63303.

1957

• **Walter H. Ellis Jr.**, GGph, MSMetE '64, has retired from Kaiser Aluminum's plant, Valco, in Ghana, West Africa, where he worked for 5 1/2 years. He joined his wife, Lois, at their retirement location, 305 Madame Moore's Lane, New Bern, N.C. Ellis keeps busy with his 31-foot Hunter sailboat and other activities.

1958

• **Eugene R. Russell Sr.**, CE, writes, "I have 16 grandkids now, and our 10 kids are still producing."

1959

• **Gaylon G. Smith**, CE, writes, "My company, Success Pattern, provides information tools for companies to

SOME ATHLETES GET BETTER WITH AGE

Gene Penzel, CE'55, and **Phil Fishman**, CE'46, aren't quite through playing young men's games.

Penzel proved his mettle in October at the Gatorade Ironman Triathlon World Championship in Hawaii. He finished sixth in the 60-to-64 age group—and first among Americans in that group.

The grueling competition consisted of a 2.4-mile ocean swim, a 112-mile bike race and a 26.2-mile run, all to be completed within 17 hours. Penzel, who owns Penzel Construction Co. in Jackson, Mo., completed the race in 15 hours, 1 minute and 31 seconds.

He started competing about five years ago, after a doctor advised him to do something about his high blood pressure.

"The doctor said I needed some exercise, so I started swimming," he says. "At first I couldn't even swim 50 meters without getting out of breath. ... But the more I did, the more I got interested in it."

He says it takes "about five years" for a triathlete to get in shape for such a competition.

Penzel also competed in an Olympic-distance triathlon in November in Cancun, Mexico. He plans to compete in the Ironman again next fall.

As for Fishman, he's in his 46th consecutive season as a modified fast-pitch softball pitcher for the Monroe (La.) Jaycees. "I started when I first came to Monroe in 1949," says Fishman, now 73. "I've been like an old horse who hears the firebell and is ready to go."

By playing as long as he has, Fishman shares an experience with his grandson that few grandfathers get an opportunity to do.

"I go to his games and watch him play, and he comes to my games to watch me," he says of his grandson, 7-year-old Mickel Husted.

ALUMNI NOTES

ALUMNUS ENTERS NATIONAL ACADEMY OF ENGINEERING

Gene H. Haertling, CerE'54, the Bishop Distinguished Professor of ceramic engineering at Clemson University in Clemson, S.C., was recently inducted into the National Academy of Engineering.

Haertling was elected for his work in developing transparent ferroelectric ceramics and new generations of electronic ceramic devices.

cut employees' turnover and double the effectiveness of their hiring, coaching and training." • **James E. Pugh**, ME, retired from Boeing July 1, 1995, after more than 33 years.

Sixties

1960

• **John H. Miller**, CerE, writes, "I became a grandfather 15 months ago and my grandson is one of the biggest thrills of my life. I've already bought him wagons, trikes and even a live steam tractor. My technology serves companies offering glass and glass fiber manufacturing technology."

1961

• **Merle E. Southern**, CE, Prof'CE'87, retired from the U.S. Geological Survey Jan. 3, 1995. He was chief of the Mid-Continent Mapping Center in Rolla. • **Paul R. Whetsell**, PetE, has just completed his 34th year at Texaco. • **Gerald E. Brunkhart**, CE, retired Sept. 1, 1995, after 34 years with the Navy's David Taylor Research Center. Awards received during his career include the American Defense Preparedness Association Bronze Medal, the David Taylor Award for outstanding achievement in scientific research, and the Meritorious Civilian Service Award. He

resides in Chantilly, Va., with his wife, Mary. They have three grown sons, John, Mark, and Daniel. • **Farouk El-Baz**, GGph, PhDDGGph'64, of Boston University's Center for Remote Sensing, has won two awards for his contributions to science and space research. El-Baz was honored recently by the Egyptian-American Professional Society.

1962

• **Bipin N. Doshi**, ChE, MSChE'63, writes, "Our older son, Robert, was appointed first lieutenant in the U.S. Army. He is ported at Fort Stewart, Ga. In May, he married Raenelle MacQueen in Tuscaloosa on the campus of the University of Alabama." • **Charles K. McCaw**, ME, retired from Williams Natural Gas Co. in July 1995. Also in 1995, his son and daughter both graduated from college. Charles and Margaret plan to stay in Tulsa, Okla., "for the moment."

POLICY FOR PUBLICATION OF ALUMNI NOTES IN THE MSM-UMR ALUMNUS

- We are happy to announce weddings, births and promotions, after they have occurred.
- We will mention a spouse's name if it is specifically mentioned in the information provided by the alumnus.
- The MSM-UMR Alumnus will announce deaths if information is submitted by an immediate family member, or from a newspaper obituary.
- We will print addresses if specifically requested to do so by the alumnus submitting the note.
- We reserve the right to edit alumni notes to meet space requirements.
- We will use submitted photos only as space permits.

1963

• **Glenn A. Niblock**, ME, has acquired Vertex Associates Inc. from Scripps Consulting Group Inc. He will serve as president of Vertex.

1964

• **Milton J. Murry**, EE, MSEE'80, is chapter historian for the Gateway ASHRAE Chapter this year and also is chair of the TEGA Committee. He writes, "I have one very interesting project in an old lead belt area using

SENNE SPENDS RETIREMENT TRACKING THE TRAILS OF STARS

Joseph Senne, MS CE'51, has spent his nearly 10-year retirement with his head way above the clouds.

Not literally, of course, has his head been in the upper atmosphere; but with his feet planted firmly on the ground, Senne has been looking into space at the moon, at the planets and at the stars beyond.

"Astronomy has been a hobby of mine for a long time," says Senne, UMR professor emeritus of civil engineering and former chairman of the civil engineering department.

His main interest in astronomy has always been "positional astronomy," which involves the accurate determination of the position of stars, planets, sun, moon and earth satellites. ...

Although Senne decided to go into engineering rather than professional astronomy, he is indirectly earning money from astronomy in his retirement.

"Since retiring, I keep busy on some of the things I wanted to do but didn't have time to do," he says. As a principal in the engineering firm of Elgin, Knowles and Senne Inc. (EKSI), he has been writing software to aid surveyors in their astronomical observations of azimuth.

Astronomical azimuth is a direction determined on the basis of ob-

servation of a heavenly body, such as the sun or the North Star, along with the precise time of day. For instance, if you were wanting to plot a line from one place to another to, say, build a fence, you might calculate the angle between that line and another line to the sun or the North Star at a precise time of day. Then, with that data, the precise location of that line can easily be found at a future date.

Making astronomical observations for azimuth is laborious and was high impossible until computers were invented. Now, with the help of Senne's software, a surveyor can make these azimuth determinations relatively easily.

Senne set up his azimuth calculations originally for the Hewlett-Packard HP-48 programmable calculator, using application cards that slip into the hand-held calculator and can be carried into the field. EKSI also makes the software available on personal computer. And EKSI has written a handbook for celestial observation used by surveyors. ...

With his love of astronomy, why didn't he become a professional astronomer?

"When the time came to make my decision (about a career), there

was not a lot of demand for astronomers, and there was a large demand for engineers, so I chose engineering," he said. "Had I known how things would change, I might have gone the professional astronomer route."

But there is a lot of astronomy in civil engineering. ... In fact, he teamed with David Summers, Curators' Professor of mining engineering, to create one of the more familiar structures on campus: UMR's Stonehenge, a loose replica of the ancient structure. ...

That design (of Stonehenge) required making astronomical calculations for the placement of the stones.

"It was a fun project for me," Senne says, because it involved many calculations. ...

Senne's association with UMR Stonehenge continues.

"I give a lot of tours" to students of all ages, he says.

And he tries through those tours to get students interested in looking beyond the clouds.

■ **R.D. Hohenfeldt**
Rolla Daily News
(Reprinted by permission)

mine water to heat and cool a city hall." Milton lives in St. Louis and recently moved to a new department at Union Electric. • **Daniel E. Sagramoso**, CE, retired from the flood control district of Maricopa County on Sept. 9, 1995. • **William Bridegroom**, EE, writes, "My company, WEB Associates/Electronics Inc., is 15 years old and we are manufacturer representatives with offices in St. Louis and Kansas City."

1965

• **William O. Haag Jr.**, CE, was appointed an associate of Horner and Shifrin Inc. He is a project manager who joined the firm in 1990. • **David Bergt**, EE, celebrated his 30-year anniversary with Schlumberger, an oil-field service company. He has worked in eight countries for Schlumberger (and set foot in 49), and is now with the firm's marketing department of the Anadrill Division in Sugar Land, Texas.

1966

• **Glen N. Foss**, GGph, earned his master's degree in geology from Texas A&M in 1994. He has retired from ocean drilling and is teaching geology part-time at Mira Costa College in Oceanside, Calif. His new address is

2830 Calle de Malibu, Escondido, CA 92029. • **Thomas J. Woodall**, Hist, was hired by O'Brien-Kreitzberg as construction manager on the \$1.2 billion program to upgrade the Boston airport "LOGAN 2000" Program.

1967

• **M. Gregory Goldbogen**, Geol, received the Illinois Society of Professional Engineers' 1995 Distinguished Service Award at ISPE's 110th Annual Conference on July 15, 1995, in Glenview, Ill. The award recognizes Goldbogen's outstanding work with the ISPE-student chapter at the College of Lake County, Ill.



William D. Webb

• **William D. Webb**, CE, has been named general manager of operations in southern California and southern Nevada for Dames & Moore, international engineering and environmental consultants. Bill is a member of the American Society of Civil Engineers, the American Society of Mining and Petroleum Engineers, and the Society of American Military Engineers. • **John D. Wolf**, EE, MSEE '68, ProfEE '88, executive vice president of



John D. Wolf

the Douglas Aircraft Co. Division of McDonnell Douglas Corp. in Long Beach, Calif., has been elected a director of the International Electrical Engineering Honor Society, Eta Kappa Nu, a professional organization in electrical engineering.

1968

• **Russell J. Warchola**, GGph, writes, "I have been an independent geologist in Billings, Mont., for the past 17 years working in precious metals, oil, and environmental assessments. I have a 9-year-old son whose favorite pastime is hunting dinosaur bones."

1969

• **Richard T. Berning**, CE, was installed as central region vice president of the National Society of Professional Engineers (NSPE) at the society's annual meeting in Louisville, Ky., on July 28, 1995. Berning is chief public works engineer for the city of Springfield, Ill., where he lives. • **David L. Gray**, EE, MSEE '70, writes, "A cemetery was donated to our church and I am managing it. Wow—talk about something different! The cemetery is over 100 years old and has 800 available plots. So, if you need a final resting place in

RELATIVELY SPEAKING

Daniel P. "Paul" Rice, EE'49, of Cape Girardeau, Mo., reports three sons and a daughter-in-law received degrees from UMR. They are:

- Donald E. Rice, Geol'72, of Houston
- David A. Rice, GeoE'74, and his wife, Lynn C. (Sheridan) Rice, Chem'74, of Richardson, Texas
- Kenneth O. Rice, GeoE'78 of The Woodlands, Texas

✱

William Bridegroom, EE'64, writes, "My wife of 30 years, Carol, an RN, and I have two sons attending UMR majoring in electrical engineering. Bill is a junior and John is a freshman. Their older sister Karen, EE'88, works at McDonnell Douglas. Our other daughter, Nancy, was the only one not to attend UMR but has a math degree from St. Louis University and also worked as an engineer for McDonnell. With my uncle Kenneth, ME '49, that makes five Bridegrooms who have attended UMR.

north Alabama, give me a call." • **Narong Yoothanom**, PhDEE, is the dean of engineering at Chulalongkorn University, one of the oldest universities in Thailand. His son, Norabune, is finishing his bachelor's degree in electrical engineering and plans to further his studies at UMR.

Seventies

1970

• **Guy M. Robinson**, ChE, MSChE'72, writes, "I am going on year eight in Indonesia. I would encourage all alumni in or coming to Indonesia to contact me." Contact Robinson at 62-21-799-5213 or at 62-21-515-1001, extension 7235. • **Randolph W. Schmelzel**, ME, is now vice president of North America Spice Operations for Burns Philp Food Inc. • **Harold W. Hager**, Math, retired as professor and chairman at Southeast Missouri State University, where he was on the faculty for 38 years and was department chair for 20 years. He lives in Cape Girardeau. • **Joe McBride**, ME, has started a management consulting firm specializing in fully integrating manufacturing with the commercial side of a business. He calls his company Total Business System Concepts. His wife **Sandi**, CSci, has developed math and computer science curricula for high school and teaches at Waubonsie High School in Aurora, Ill. They can be reached via e-mail: JoeMcBride@aol.com. • **Charles E. Russell**, GGph, retired from Kansas City Power & Light July 1, 1994. He now works part-time as a fuel pro-

urement and transportation consultant for a local municipal utility company. He is trying to relocate to New Zealand or Australia for a few years and also is considering the Peace Corps.

1971

• **Vincent J. Budd**, EE, was appointed to the board of governors at the Orange County Golf Club in Middletown, N.Y. • **James "Andy" Butler**, EMgt, MSEMgt'83, works at PBS in Washington as a communications systems engineer. "I am managing development of a hard disk-based Local Insertion System that will allow member stations to insert interstitial material (promos, underwriting credits, etc.) into PBS network programming automatically." Butler also offers radio engineering services through B&G Consulting in Annandale, Va. • **Archibald M. Gallup**, CE, MSEMgt'83, and Nancy moved into a 100 year-old farm house with an old barn. "Lots of work to do!" Their new address is RD1, Box 82, Hobart, N.Y. 13788. • **Larry W. Blankenship**, GeoE, was employed by the Missouri State Highway Department from 1974 to 1982. He moved to Oregon in 1982, where he worked for Bechtel on Portland's Light Rail (design & construction management), from 1982 to 1986. He worked at Tri-Met in 1986 as a contract closeout specialist and was promoted to engineer III (1991) and to construction coordinator for the services department (1993).

**New Job?
New Spouse?
New Kid?**

We would love to hear what's new with you! Send in your *Alumni Notes* news to:

Electronic Mail
ALUMNI@UMR.EDU

(This is an Internet address)

FAX to:
MSM-UMR Alumni
Association
(573) 341-6091

Or, write us:
MSM-UMR
Alumni Association
1870 Miner Circle
University of Missouri-Rolla
Rolla, MO 65409-0650



ALUMNI NOTES

1972

• **Thomas J. Eyermann**, GGph, accepted a position with RE/SPEC in Rapid City, S.D., and says it is a welcome change from the Gulf Coast. Wife Lynn and their two children followed Tom to Rapid City six months later, after Lynn graduated from Loyola. • **Dennis R. Nethington**, Hist, BSGGph '82, MSGGph '85, is still working with data for Mobil Oil in Dallas. • **Ron Dougherty**, ME, MSME '74, PhDME '78, has been awarded the 1995 Halliburton Outstanding Faculty Award. He is professor in the School of Mechanical and Aerospace Engineering at Oklahoma State University. • **David R. Vogel**, EE, writes, "In August I moved to a new job in New Jersey with AT&T as the Global Wireless Products Product Realization Center vice president." • **Robert I. Egbert**, EE, MSEE '73, PhDEE '76, was promoted to professor of electrical engineering at Wichita State University.

1973

• **Thomas D. Akers**, AMth, MSAMth '75, HonDE '92, is scheduled for his fourth Space Shuttle flight in August 1996. The flight is a rendezvous/docking mission with the Russian space station MIR. Tom's son, David, is a freshman at UMR, majoring in nuclear engineering. • **Stephen R. Dickman**, ChE, was promoted to vice president of corporate business development for Lockwood Greene Engineers, where he has worked for more than five years. Dickman serves



Stephen R. Dickman

on the operating board of Lockwood Greene, which operates 24 office locations worldwide.

1974

• **William P. Clarke**, CE, MSCE '79, was appointed an associate vice president of Horner & Shifrin Inc. For the past seven years he has been the firm's manager of sanitary and environmental engineering and will continue in that capacity as well. • **Steve Roerman**, AMth, was father of

the bride at his daughter Krista's wedding June 3, 1995, in Dallas. On Aug. 3, he was promoted to vice president at Texas Instruments. Says his wife, Colleen, "It's been a very good summer." • **Gerald G. Wiegmann**, EMgt, and **Steven E. Rassbach**, EMgt '91, along with two other partners co-founded Condaire Engineering Corp., a St. Louis-based mechanical contracting firm. • **Frank R. O'Brien Jr.**, CerE, ProfCerE '90, writes, "We just lost our 11th child, John Paul O'Brien, on Aug. 19, 1995."

1975

• **Stephen A. Kambol**, CE, was promoted to vice president at DMJM International, where he is now manager of the company's Asia/Pacific region in Manila, Philippines. Steve and Mary live in Manila but may be contacted by writing 941 West Moana Lane, Reno, NV 89509. • **George M. Carlstrom**, GeoE, and **Linda Jacobs**, GeoE, recently opened the consulting firm of Carlstrom-Jacobs Associates, a limited liability company. They provide geological engineering consulting to the oil and gas industry. Their new office is located at 820 16th St., Suite 402, Denver, CO 80202, (303) 820-2844. • **Thomas P. Schneider**, CE, writes that his son, Zachary, is a crew member aboard the world's largest ship, the USS John C. Stennis. The new carrier will be commissioned Dec. 9. • **William Peach** was one of three nominees for "Rolla's Man of the Year" in 1995. Peach currently serves as president of the Rolla Area Chamber of Commerce and is active both in the community and with UMR, especially UMR's athletic program.

1976

• **Dil Mohan S. Bhatia**, GGph, was elected to the executive committee of Boy Scouts of America-Middle Tennessee. He also will be program chair, geochemistry, for the Society of Mining, Metallurgy and Exploration's 1996 meeting. He has published or presented five papers during the past year, and spent the summer in Costa Rica with his wife, Ginger, studying several volcanoes. • **John J. Jaeger**, CE, MSCE '81, completed his MBA at Nova Southeastern University on Aug. 18 and was recently promoted to the assistant chief design branch position at the Jacksonville, Fla., District of the Corps of Engineers.

1978

• **Rona (Whittall) Donahoe**, GGph, presented a paper at the University of Edinburgh in September. Husband **Jim** (GGph '78) and children Caitlin and James IV accompanied her for a trip through Scotland and England.

1979

• **Morgan Slusher**, Phys, writes, "As of September 1995, I will be living in the City of Baltimore and working as an assistant professor of physiology at Essex Community College in suburban Baltimore."

Eighties

1980

• **Wayne A. Hamilton**, MSGeoE, is Shell Oil's Midcontinent Area marketing, environmental engineering manager, responsible for Shell's environmental assessment, reconciliation and compliance requirements in a nine-state area. The Hamiltons and their three children are doing well in the Chicagoland area. • **Steven F. Kane**, MSEMech, was awarded the Edgar Monsanto Queeny Safety Professional of the year Award in June 1995. The award, co-sponsored by the Monsanto Co. and the American Society of Safety Engineers (ASSE), was accepted during the ASSE's 34th Annual Professional Development Conference in Orlando, Fla. Steven is a systems safety engineer at Brookhaven National Laboratory in Upton, N.Y. • **Tim Williams**, CE, writes, "I am completing my ninth year with R.G. Brinkmann Construction Co. The business is growing and we completed commercial construction projects in four states other than Missouri." Williams lives in Grover, Mo. • **Linda M. Jacobs**, GeoE, and **George Carlstrom**, GeoE '75, recently opened the consulting firm of Carlstrom-Jacobs Associates, a limited liability company. They provide geological engineering consulting to the oil and gas industry. Their new office is located at 820 16th St., Suite 402, Denver, CO 80202, (303) 820-2844.



Karen Daily Clifford, EngI '77, poses with football great Joe Theisman at the College Football Hall of Fame in South Bend, Ind. Karen is special projects administrator for the Hall of Fame. Karen's family has many UMR connections: husband Timothy Clifford (EMgt '77), sister Kristy (GeoE '80), father Madison (PhDEMgt '84), brother Madison (ME '81, MSEMgt '88) and sister-in-law Karen (EMgt '84, MSEMgt '85), who is also the daughter of Chancellor and Mrs. Park.

1981

• **Rich Connelly**, ME, was named plant manager of the Hillyard Cos., based in St. Joseph, Mo. • **Mary S. Klorer**, ME, and **Tim** have moved to 125 Laurel Tree Way, Brandon, FL 33511. • **Steve Garner**, ME, is the manufacturing manager of the newly formed Alliance Heater Co., a division of Watlow Electric, located in Montgomery City, Mo. • **Teresa A. Adams**, Hist., writes, "Greetings from Hog Country! **Steve**, MinE '82, and I have been in Fayetteville, Ark., for 13 great years. Steve is vice-president of operations for Bioengineering Resource Inc. I gave up practicing law to oversee operations for Matthew (11), Emily (9), Margaret Anne (6) and Carolyn (3)." • **Alissa M. Gallagher**, EMgt, MSEMgt '83, writes, "Same job, same kids, same husband."

1982

• **Terry Lee** Clint Aslin, V. 1995, and living in Terry writes, settled in our first-hand homeowners lawn, pulling Grace C. Le Deloitte & T manager. Bus ing Group. F president of St. John's M James M. J. appointed vi ing of the Va Transportati Matthew J. Gayla J. Alber is employed a Thomas O.

"It is always a annual call fr always passes al and profes and news of fessors at UM milder to me Mo.

1983

• **James R** (Vanderveld on their way will be static Force Base in B. Seiwald, for Rockwell Rapids, Iowa been marrie and have a Lauren. • **Mi** was named t Professional Engineer of th of the state a society's no Young Engin in February McKay. EMg Arizona, it's l Actually all is and I'm happy ask for more CerE, writes, tion products Same pay, m in Omaha is much com to Christopher Manly G. (Dra He is a chief in St. Louis

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Bioengineer-
up practicing
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Margaret Anne
• **Alissa M.**
MSEMt'83,
me kids, same

1982

• **Terry Lee Bachman**, ME, and Clint Aslin were married April 29, 1995, and live in Creve Coeur, Mo. Terry writes, "We are still getting settled in our new home and learning first-hand about the joys of homeownership, like mowing the lawn, pulling weeds and painting." • **Grace C. Lange**, CSci, has joined Deloitte & Touche LLP as senior manager, Business Systems Consulting Group. Previously she was vice president of information systems for St. John's Mercy Health Systems. • **James M. Jackson**, ME, has been appointed vice president/engineering of the Vapor Division of Mark IV Transportation Products Corp. • **Matthew J. Lenhardt**, EE, married Gayla J. Albers on Sept. 23. Lenhardt is employed at McDonnell Douglas. • **Thomas O. Mesko**, GGph, writes, "It is always a pleasure to receive my annual call from Dr. Dick Hagni. He always passes on news (both personal and professional) about events and news of friends and former professors at UMR. He serves as a reminder to me where home is—Rolla, Mo."

1983

• **James R. Morris**, ME, Lynn (Vandervelden), CSci, and kids are on their way to Alaska, where Jim will be stationed at Elmendorf Air Force Base in Anchorage. • **James B. Seiwald**, EE, has been working for Rockwell International in Cedar Rapids, Iowa. He and Judy have been married for seven years now and have a 6-year-old daughter, Lauren. • **Michael A. Fritz**, GeoE, was named the Missouri Society of Professional Engineers 1995 Young Engineer of the Year. As the winner of the state award, Fritz will be the society's nominee for the NSPE Young Engineer of the Year Award in February 1996. • **Michael B. McKay**, EMgt, writes, "I'm enjoying Arizona, it's hot but it's a dry heat! Actually all is well, work goes fine, and I'm happy and healthy! I couldn't ask for more." • **Geri E. Smith**, CerE, writes, "I've been kicked sideways. Now I'm the premises distribution products operations manager. Same pay, more responsibility. Life in Omaha is good, but there's not much corn to hush like this year." • **Christopher L. Henry**, CE, married Marily G. (Draft) Henry Nov. 5, 1994. He is a chief engineer at HBE Corp. in St. Louis.

1984

• **Thomas J. Dalton**, has joined Harris Semiconductor in Melbourne, Fla., as a worldwide sales director for intelligent power products. • **Margaret (Buhl) Williams**, Chem, PhDChem '93, is the new chemistry and algebra instructor at Mineral Area College in south central Missouri. • **Kenna Roberson Yarbrough**, GeoE, writes, "I am still working in the exciting field of environmental criminal enforcement. Thankfully, there is no shortage of work. Also, I am enjoying all that the Rocky Mountains have to offer: camping, hiking, climbing and fly fishing." • **Diana Holdinghausen**, ChE, is a State Farm Insurance agent. She is the owner and manager of the new State Farm Insurance office in Washington, Mo. • **Larry Birkner**, ME, completed a master of science degree in management and received the degree in June 1995. He writes, "Still working for National Steel at the Granite City, Ill., Steel Division, working to bring the maintenance organization's information systems kicking and screaming into the late 20th century. (Fiber what?) It'll be a success, just not easy. Then there's QS9000....Life can be busy." • **Gregory L. Eason**, GGph, is teaching geological engineering, geographic information systems and remote sensing at the University of Mississippi-Oxford ("Ole Miss").

1985

• **Scott W. Klamm**, ChE, continues to work for MRI as an environmental engineer, studying incineration systems and air pollution problems. His music also continues with the release of his first mountain dulcimer recording (on his own label). His current address is 3812 Mercier, Kansas City, MO 64111. • **Karen Luter**, MetE, writes, "I'm adjusting well to my career change. Staying home with a toddler is certainly challenging."

1986

• **Larry W. Dotson**, Hist, started attending the Latin American Studies program at the University of New Mexico in the fall. Dotson and family are enjoying the warm weather in Albuquerque. Wife Lisa graduated last year from Kansas State University with a degree in social work. • **David Kluesner**, GeoE, was awarded the Gold Medal, the highest award issued, by the Environmental Protection Agency. He earned the award



Alumni climb the wall

Randall J. Lubbert, MinE'78, and **Roger Keller**, MinE'75,'82, toured the Far East last May. While in Beijing, they visited the Great Wall of China. That's Keller kneeling and Lubbert above him. Writes Lubbert: "It was a weekend trip. We flew up Friday and back on Sunday. Stayed at the Great Wall Sheraton and went to the Hard Rock Cafe."

for his efforts at a successful conclusion of settlement negotiations on the \$60 million cleanup of the Maxey Flats, Ky., radioactive waste disposal site. • **Thomas J. Sonderman**, ChE, completed a master's degree in EE in '91 from National Technological University. He is a senior manager



Al Meyer

for manufacturing technology for Advanced Micro Devices Inc. • **Nathan W. Parr**, MetE, is a contract engineer for Delphi Energy & Engine Management Systems in Anderson, Ind. • **Al Meyer**, EMgt, was recognized by Lockheed Martin Aeronautical Systems for his work on the F-22 next-generation tactical fighter program. Meyer joined Aeronautical Systems four years ago after working on the F-18 program at McDonnell Aircraft Co.

1987

• **Charles M. Carver**, Hist, received his master of science degree in nuclear engineering from UM-Columbia

in December 1994. He is now working for Boone Hospital Center in Columbia, Mo., as a medical physicist. • **Frederick A. Meyer**, ChE, works for Monsanto Nutrasweet as manager of engineering, in Deerfield, Ill. Meyer and his wife, Laura, have two children: Albert, born July 26, 1995, and Harold, born Sept. 23, 1992.

1988

• **Timothy Brownsberger**, ME, and Patricia (Bounds) were married April 8, 1995. Patricia works for the U.S. Army and Timothy works for McDonnell Douglas in St. Louis. They live in Florissant, Mo. • **Cordell E. Smith**, Hist, is a legislative correspondent for Sen. John D. Ashcroft, R-Mo., He writes, "What a great time to be working on Capitol Hill! The 104th Congress will go down in history as one of the truly historic and pivotal events of the late 20th century." • **Richard T. Bradley**, CE, writes, "Allison and I were married on Sept. 2, 1995, in Chicago. She is a graduate of the Southern Illinois Universi-

Graduate's research helps Texaco win technology award

Working with two other scientists at Texaco Exploration and Production Inc., **John R. Rogers**, MS Phys'65, PhD Phys'70, began researching the use of neural networks as a means of reducing the time and expense associated with oil and gas exploration. The result was STARMAG, a neural network technique that interprets magnetic data from airplane surveys to map the features of the basement rock that underlies oil and gas deposits. The new technology is far quicker, cheaper and more accurate than past techniques.

As a result of this research effort, Texaco Exploration and Production won the Hart Oil and Gas World's "Best of the Rockies New Technology Award" on July 30, during a meeting of the Independent Petroleum Association of Mountain States.

The annual award focuses attention on new innovations and technologies developed by people and companies in the Rocky Mountain region.

ALUMNI NOTES

ty-Edwardsville Nursing School and is employed at Bethesda General Hospital in St. Louis. We are residing in St. Louis as I am a project engineer for the City of St. Louis."

Nineties

1990

• **Timothy L. Davis**, ME, is a marketing and application engineer for Layne GeoSciences in Mission Woods, Kan. He has moved back to the Midwest after working in Alaska, Louisiana and Midland, Texas. • **Julie (Robinson) Smith**, EE, and **Jerald**, MetE'89, MSME'90, both graduated in May 1995 with master of business administration degrees from the West Virginia Graduate College. • **Loren Whetsell**, Hist, is completing his doctorate at the University of Missouri-Columbia after receiving his bachelor of arts degree from UMR and master's degree from UMC. His wife **Lucy Bell**, Psyc'90, is completing her master's degree in psychology at UM-Columbia. • **Stuart J. Gardner and Susan L. (Evanson) Gardner**, CE, received their P.E.s in 1995 and are still enjoying the good life in Denver. • **Timothy J. Dickinson**, AE, is attending graduate school and plans to get his master of science degree in aerospace engineering in December 1996. • **Craig J. Korte**, AE, married Darlene M. Fernando on June 4, 1995, in Chicago. He earned his master's degree in mechanical engineering from the University of Illinois and is pursuing a master of business administration degree at Indiana University in Indianapolis.

1991

• **Donald E. Rainbolt**, EMgt, and **Deborah A. Kladiva**, EMgt'92, were married June 30, 1995. Both Don and Debbie are packaging engineers at Fru-Con Engineering Inc. in St. Louis. They are settling into a house in Kirkwood, Mo. • **Barry L. Crawford**, ME, and **Sandra K. Smith**, were married June 24, 1995, at the Russellville Baptist Church. They live in California, Mo., where Barry operates his own business, Crawford's Welding and Mechanical Design Inc.

The couple took a wedding trip to Hawaii. • **Steven E. Rassbach**, EMgt, and **Gerald G. Wiegmann**, EMgt'74, along with two other partners, co-founded Condaire Engineering Corp., a St. Louis-based mechanical contracting firm. • **Erik V. Stockglausner**, MetE, is working for Bety Process Chemicals in Corpus Christi, Texas. He hasn't bought a cowboy hat yet but is enjoying Texas very much. He writes, "Thanks to all the faculty for helping develop the foundation which has helped me enjoy my success." • **Paul T. Lenox**, ME, recently reported for duty at the Marine Corps Recruiting Station in Portsmouth, N.H.

1992

• **Vick Agarwal**, EE, MSEMgt'95, spent two months in India after graduation and has moved to Kansas City, Mo., where he works as a manufacturing engineer with Allied-Signal Aerospace. • **Chris Barnhart**, EE, earned his bachelor's degree in education from Southeast Missouri State University in May 1995 and teaches physics and mathematics at Advance High School in Advance, Mo. Friends may write to 1212 Tillaree, Cape Girardeau, MO 63701. • **Deborah A. Kladiva**, EMgt, and **Donald E. Rainbolt**, EMgt'91, were married June 30, 1995. Both Debbie and Don are packaging Engineers at Fru-Con Engineering Inc. in St. Louis. They are settling into a house in Kirkwood, Mo. • **Scott J. Dahlgren**, GGph, is a staff geologist in charge of environmental services in the PSI St. Louis branch. "This includes various underground storage tank and other contamination assessments," he writes.

1993

• **Bruce D. Holcomb**, CE, MSCE'95, is a structural steel design engineer with Chief Industries in Grand Island, Neb. • **Bradley M. Stewart**, ME, married Amy R. Walker May 20, 1995. Bradley is employed at Baxter Health Care Corp. After a honeymoon cruise in the Bahamas and a visit to Disney World, the couple resides in Mountain Home, Ark. • **David Clark**, EE, writes, "I recently became part of NOKIA Telecommunications in Westlake, Texas, as design engineer for cellular technology. My wife Billie passed the CPA exam last year and became a certified CPA in December this year. We don't have any children yet, but believe in practicing when time allows. We are

currently saving for our first home to be built within the next two years so will still live rather modest for DINKS (Dual-Income-No-Kids). I invite other alumni to e-mail me at: clarkd@ntcsa101da.ntc.nokia.com." • **Rachquel (Chrissy Kluz) Williams**, EMgt, is working in St. Louis for Alco Controls Division of Emerson Electric as a quality engineer. She married Mike Williams Oct. 8, 1994. • **Steve Auckly**, CSci, has been working for two years at D.H. Pace Co. in north Kansas City, Mo., as a programmer/analyst. Auckly married Elisa Verdier in September 1995. He would like to hear from anyone. His e-mail address is: sjaukly@aol.com. • **Bruce Dionne**, GeoE, married **Beth Rikand**, ME'94, on March 18, 1995. He works for Elmer Larson Inc. as an environmental manager and she works as a

quality engineer for Auto Meter Products in Dekalb Ill. • **John R. Dixon**, ME, married Lynnette J. Grow March 19, 1994. John works for Halliburton Energy Services in Liberal, Kan., as a field engineer II.

1994

• **Beth Rikand**, ME, married **Bruce Dionne**, GeoE'93, March 18, 1995. He works for Elmer Larson Inc. as an environmental Manager and she works as a quality engineer for Auto Meter Products in Dekalb, Ill. • **Thomas C. Nield**, Hist, teaches junior high school social studies and computer literacy for the Pulaski Co. R-IV school district in Richland, Mo. He writes, "The people I work with are great." • **John Guenther**, EE, was hired as an electrical engineer for Optec D.D. U.S.A., on July 31.

FUTURE MINERS

Christopher C. Cook, PetE'80, and **Berit**, a boy, **Daniel Pedersen**, April 14, 1995.

Andrew J. Tayon Jr., MetE'80, and **Jane**, brother **Andrew** and sisters **Catherine** and **Margaret**, a boy, **Michael Joseph**, May 4, 1995.

Joe Howell, ME'81, **Lea Anne (Telthorst)**, ME'81, and sister **Katie**, a boy, **David James**, April 23, 1995.

Robin (Meyer) Wankum, CE'90, and **Thomas**, ME'91, their first child, a girl, **Patricia "Tricia" Jean**.

Rebecca (Martin) Frisbee, EngI'90, and **Dirk**, EngI'93, their first child, a girl, **Rachael Anne**, Aug. 4, 1995.

Kenneth E. Rice, ME'93, and **Lynita**, a girl, **Nanyamka Nia Mekhat**, July 18, 1995.

Ernest K. Banks, ChE'81, and **Anglela Blake Banks**, EE'87, a girl, **Jordan Blake**, Aug. 20, 1995.

Larry Birkner, ME'84, and **Tammy**, brothers **Spencer** and **Ross**, a boy, **Drake Thomas**, Jan. 28, 1995.

John R. Dixon, ME'93, and **Lynnette**, a girl, **Kalyn Marisa**, June 20, 1995.

Stanley C. Dicken, Math, '72, MSEMgt'73, and **Sharon**, a girl, **Sarah Margaret**, August 1995.

James K. Hovis, AE'89, and **Michelle**, a girl, **Morgan Rachelle**, April 11, 1995.



Alumnus finally gets his due

Clyde Cowan, who died in 1974, was part of research team that won 1995 Nobel Prize in physics



After being nominated three times for the Nobel Prize in physics, Clyde L. Cowan Jr., ChE'40, a native St. Louisan who died in 1974, finally received recognition from the Nobel committee.

The Nobel committee honored Cowan for discovering the neutrino, a breakthrough Cowan achieved with a colleague in the 1950s.

According to a recent story in the St. Louis Post-Dispatch, written by science writer William Allen, the 1995 Nobel Prize in physics was shared by Frederick Reines of the University of California at Irvine, who won for detecting the neutrino with Cowan, and Martin L. Perl of Stanford University, who won for separate work that revealed the tau lepton.

The neutrino and tau lepton are two of nature's 12 basic particles of matter. The search for these subatomic particles has been one of the great scientific quests of the 20th century. That quest seeks to answer such fundamental philosophical and physical questions as how the universe was formed.

Because the Nobel committee doesn't make posthumous awards, Cowan did not officially win the prize. But in effect he did, say his fam-

ily, colleagues and the Nobel committee itself.

In explaining the award for the neutrino discovery, the Royal Swedish Academy of Sciences gave Cowan equal credit for what it called the neutrino breakthrough.

"Reines and Cowan succeeded in a feat considered to

"Reines and Cowan succeeded in a feat considered to border on the impossible. They had raised the neutrino from its status as a figure of the imagination to an existence as a free particle."

—the Royal Swedish Academy of Sciences

border on the impossible," the academy says in its official statement. "They had raised the neutrino from its status as a figure of the imagination to an existence as a free particle."

In the 1950s, Cowan and Reines built a detector designed to catch signs of the elusive neutrino. Theorists had speculated that this subatomic particle carried no electric charge. Its mass was thought to be so close to nothing that it might not be measurable. But Cowan and

Reines found crucial evidence of its existence by using the detector at nuclear reactors in Hanford, Wash., and Savannah River, Ga.

After publishing results of the neutrino hunt, Cowan and Reines achieved fame among the world's scientists. But Cowan began to be bothered by the

ton. He died of a heart attack at age 54 in a hospital in Maryland.

Cowan's family moved to St. Louis shortly after he was born in Detroit. He was fascinated by science as a young boy. He was bright and inquisitive, graduating from high school at 16.

"He was always mixing up things and playing chemist," Marian Cowan says. During a break from studies at Rolla, he spent several days trying to make synthetic rubies in the garage of the family's home, but his experimental system kept malfunctioning, sucking a cork into a flask with a loud boom.

"The neighbors were always saying, 'That Cowan kid's going to blow up the neighborhood,'" Marian says.

Cowan served as a chemist in the Army Air Corps in World War II, achieving the rank of major. After the war he enrolled at Washington University, where he earned a doctorate in physics in 1949. He then left St. Louis for Los Alamos National Laboratory.

Family members say they're delighted, not bitter, that Cowan's Nobel Prize has finally arrived.

"The only bittersweet part is that it came about 20 years too late," Marian says.

■ Portions reprinted with permission from the St. Louis Post-Dispatch.

ALUMNI NOTES

Memorials

1926

Raymond G. Kern, ND, died in 1993. Kern, who was retired, lived in St. Charles, Mo.

1929



John M. Rindlaub, MinE, died May 4, 1995. Rindlaub was a partner in the Electric Store & Repair Shop for 40 years. He lived in Platteville, Wis., for 65 years with his wife.

1935

Leroy A. Bay, ChE, died Feb. 24, 1995. Bay retired after 18 years as a teacher at Florissant Valley Community College in St. Louis. During his six years at MSM, Bay was a member of Phi Kappa Phi, the Athletics Association, Epsilon Pi Omicron, Alpha Chi Sigma and Ira Remsen. He was a graduate assistant in the chemical engineering department.



Ollie Kamper, CerE, died July 27, 1995. At MSM, he was a member of the Orton Society, the Rollamo, the Mining Board and was president of Theta Tau. His ties with Rolla were strengthened by the fact that his wife was a "Rolla girl." He and his son, Russell, CE'62, were both recipients of the Alumni Service Award.

1940

Paul G. Herold, ND, has died. Herold, who was retired, lived in Grants Pass, Ore., with his wife, Virginia.

1941

King D. Beach Jr., ND, died in August 1995. He lived in Cleveland, Ohio.

1942



Robert F. Guilfoyle Jr., ME, died July 3, 1995. Guilfoyle was a veteran of World War II, serving in the Air Service Command and later serving in the Air Force Active Reserve where he retired in 1972 as colonel. He was with the U.S. Department of Agriculture from 1954 until 1986, becoming chief of the transportation research branch of the Office of Transportation from 1983 to 1984. He ended his career as a special assistant to the chief of that office's international division. From 1967 to 1986 he represented the United States in Geneva in a meeting with experts from the European Economic Community on the transport of perishable foodstuffs. In 1985 and 1986 Guilfoyle was elected chairman of the group, being the first American elected to that position. He participated in several clubs and organizations during his four years on the MSM campus.



Gilbert A. Naert, MinE, died Feb. 3, 1995. At MSM, Naert participated in intramural softball and was a member of Kappa Sigma fraternity. He lived in Midland, Texas, with his wife, Betty, for 37 years.

1948

Harvey W. Schield, ND, died in 1992.

1949



Edgar J. Telthorst, ME, died Aug. 28, 1995. After 39 years with Union Electric, Telthorst retired in 1988 as vice president of power operations. In 1980 he received the honorary professional degree of mechanical engineer from UMR for his achievement in the field. He served in the Navy during World War II and was in the Army in the Korean War. He was a member of the Alumni Association's Century Club for 18 years. During his three years at MSM he was a member of Kappa Sigma, the Rollamo Board, ROTC, ASME, Blue Key, Theta Tau, and Tau Beta Pi.



Edwin J. Werner, CE, died July 12, 1995. In 1963, Werner founded E.J. Werner & Associates Inc. He retired from there in 1989. At MSM, he was a member of the National Society of Professional Engineers, the Missouri Society of Professional Engineers and the American Society of Civil Engineers. He was a member of the Alumni Association's Century Club for 12 years and was a board member in the 1970s.

1950

Raymond Fahien, ChE, died Aug. 26, 1995. He was a professor of chemical engineering at the University of Florida from 1965 to 1995, where he retired in March 1995. Earlier, Fahien was a professor of chemical engineering at Iowa State University. He was editor of "Chemical Engineering Education," an international journal, and author of "Fundamentals of Transportation Phenomena."

Henry E. Reynolds, ME, died Feb. 12, 1995. Reynolds was employed with Black and Veatch for more than 20 years as an engineer. He lived in Oklahoma with his wife, Lillian.

1951



Dale E. Hirschfeld, MinE, died in 1990. At MSM, Hirschfeld was a member of Kappa Alpha. He spent the last 20 years of his life in Westport, Wash., with his wife, Glenna.



Arthur L. Phelps, EE, died July 30, 1995. Phelps was on the honor list while attending MSM. A veteran of the armed forces, he lived in the Rolla area most of his life.



1952 Daniel Taber (formerly Tabachnick), PetE, died in 1990. He was from Temple Hills, Md.

1953

Charles A. Berry, ChE, died July 20, 1995. Berry lived in California for 40 years and worked for Los Angeles County for more than 15 years.



Robert A. Jones, CE, died Aug. 6, 1995. At MSM, he served as president of Kappa Sigma fraternity. He was a first lieutenant in the U.S. Army. In partnership, Jones operated Moval Contractors Inc. and developed many public facilities throughout Missouri. Jones, who retired in 1986, lived in Washington, Mo., with his wife, Sue, for more than 30 years.

1960



Herman J. Meyer III, MetE, died Feb. 26, 1995. Meyer was a member of Shamrock Club and the Newman Club at MSM. He lived in Ohio for 25 years with his wife, Judith.

1965

Pares M. Mehta, MetE, died July 22, 1995. He lived in Michigan with his wife Elizabeth for more than 20 years. Mehta had worked as assistant plant metallurgist at Navistar for 20 years.

1966



James A. Rancilio, CE, died Nov. 1, 1994, at age 50. Rancilio was in charge of seawater barriers and hydraulic and water conservation for the Los Angeles County Public Works Department. He is survived by his wife, Sandy, and three daughters, Michele, Kym and Christine.

1970

James H. Burford, CE, died Oct. 31, 1993. Burford lived in Fayetteville, Ark., with his wife, Minnie. He was a field engineer for Bechtel.

1979



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1985

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1990

Harold T. L. July 1995. F



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Friends

• Natalie E. R. Edgar, 18, 1995. • of Chester Sept. 2, 19 died July 1. Spokes die was chairm petroleum ment at MS 1969. He 1971 and w School of and 1981. died May 2 Bloch, wife died July 3 preceded hi 16, 1991. M UMR after secretary to neering dep Betty Stoltz, EM 1995. • Ro June 6, 19 Louis. • Ru Henry D. M Sept. 17, 19

1979



Thomas J. Rosenauer, ChE., died Aug. 9, 1995. Rosenauer played varsity football while at UMR. He was employed with Amoco as a chief drilling engineer and lived in Katy, Texas, with his wife, Kinleigh (Hrovat), Psyc'80.

1985

Matthew C. Mitchell III, PetE, died July 5, 1990. He lived in Godfrey, Ill. and was in the Air Force.

1990

Harold T. Licklider Jr., Phys, died July 1995. He was from Rolla, Mo.



In the "Faces of Leadership" issue of the *Alumnus*, the photo placed next to Roy Sitton's memorial was incorrect. The photo pictured is that of the "real" **Roy Sitton**, EE '62, who passed away March 22, 1995. The editors regret this error.

Friends of Alumni

- **Natalie Edgar**, wife of **Maurice R. Edgar**, MetE '33, died April 18, 1995.
- **Evelyn C. Baker**, wife of **Chester Baker**, CE '55, died Sept. 2, 1995.
- **E. A. Stricker** died July 18, 1995.
- **Ernest M. Spokes** died Aug. 17, 1995. He was chairman of the mining and petroleum engineering department at MSM-UMR from 1963 to 1969. He returned to UMR in 1971 and was acting dean of the School of Engineering in 1980 and 1981.
- **Wallace B. Howe** died May 28, 1995.
- **Mary G. Bloch**, wife of **Melrose A. Bloch**, died July 31, 1995. Mr. Bloch preceded his wife in death on Aug. 16, 1991. Mrs. Bloch retired from UMR after 15 years of service as secretary to the mechanical engineering department chairman.
- **Betty Stoltz**, wife of **William A. Stoltz**, EMgt'68, died July 27, 1995.
- **Robert G. Brady** died June 6, 1995. He lived in St. Louis.
- **Ruth Monsch**, wife of **Henry D. Monsch**, MetE '29, died Sept. 17, 1994.

DENNIS RAY HAYES DROWNS WHILE RESCUING A WOMAN FROM SUBMERGED CAR



Dennis Ray Hayes, CE'84, of West Plains, Mo., a district construction engineer for the District 9 Construction Division of the Missouri State Highway Department, drowned Thursday, Sept. 14, while rescuing a woman from a submerged car near Interstate 44 west of St. James, Mo. He was 34.

Hayes was one of three motorists who helped rescue the woman, Thelma Magnin of St. James, from her car after she ran the vehicle into a pond. According to the Missouri Highway Patrol, the three pulled the woman from the car but the vehicle then sank, apparently pulling Hayes down with it. He was the only fatality.

With Hayes was **Randy Mayo**, CE'79, a co-worker from District 9 of the Highway and Transportation Department. According to an article in the Rolla Daily News, Mayo and Hayes were returning from a construction site when they witnessed the accident.

"By the time we got to where the car was, there were a couple of other cars," Mayo said. "Dennis and another guy swam out to the car, and I called 911 on the car phone.

"The car was submerged up to the rear window. The lady inside had panicked and didn't think to unlock the doors, and the car had electric locks. Dennis came to shore and got a rock to break out the rear window, but it was too big to swim with.

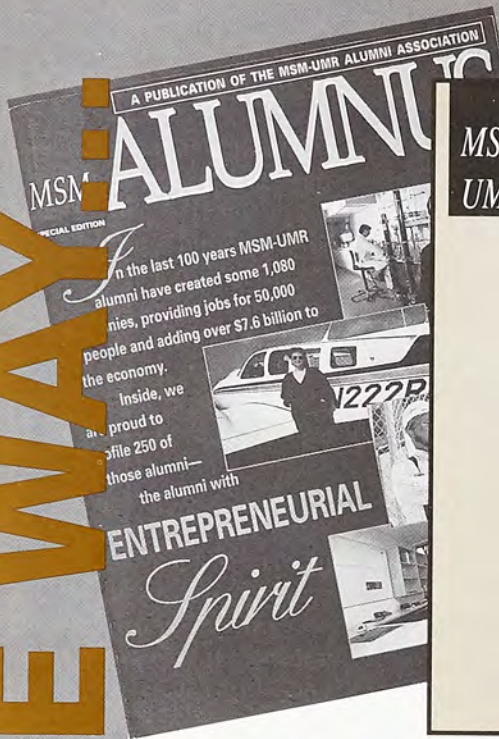
"I swam out to the car and told Dennis to throw me a rock, and by that time someone who had stopped gave him a hammer. He swam out and gave it to me, and I broke out the rear window—it just broke into a million pieces. When we got the lady out, she was scared because she couldn't swim, so the people on shore yelled at us to stay with the car," Mayo said.

Mayo and other rescuers stayed with the car as it sank, but Hayes' body didn't surface. About an hour later, divers discovered his body "right where the car went down," Mayo said.

Hayes is survived by his parents, Joe and Sue Gray Hayes of Bunker, Mo.; wife, Janet Smith Hayes; three children, Derrick Ray Hayes, 11, Zachery Dale Hayes, 2, and Vanessa Myre Hayes, 9; and one sister, Denise Polk of Salem, Mo.

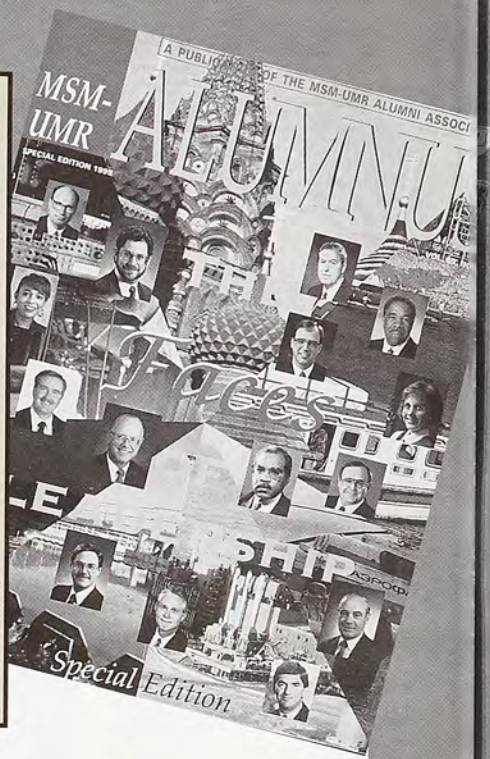
Hayes was a registered professional engineer in Missouri. He participated in the American Association of State Highway and Transportation Officials. He was one of five highway engineers selected to serve on a subcommittee for implementation of automation in construction and was chairman of the Impact Task Force on the I-44 construction project last summer.

LEADING THE WAY



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Are you a leader in government or public service? If so, we're looking for you for our upcoming Government and Public Service Leaders issue of the *MSM-UMR Alumnus*. This 1996 issue will be the third in a series of magazines profiling our alumni who are making a difference. The first, published in 1994, featured our entrepreneurs. The second, published this year, featured our corporate leaders.

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LEADING THE WAY...

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hanks to the generosity of Vernon and Maralee Jones of Tulsa, Okla., UMR is making great strides in its pursuit of excellence in engineering education.

Vernon and Maralee, along with The Williams Companies Inc., where Vernon was president for many years, have helped strengthen the program in infrastructure engineering at UMR through the establishment of the Vernon and Maralee Jones Endowed Professorship in Civil Engineering. The Jones Professorship will support a distinguished professor in the area of infrastructure engineering, which deals with highways, bridges, buildings and other structures. A search for the Jones Professor is now under way in the civil engineering department.

Vernon, CE'53, and Maralee contributed \$250,000 for the professorship. The Williams Companies, an energy resources company based in Tulsa, Okla., provided an equal amount in matching funds in recognition of Vernon's many significant contributions to the company as president and director.

Along with a distinguished career in industry, Vernon has been very involved with the campus community. He chaired UMR's Development Council—the precursor to the Corporate Development Council—from 1979 to 1982. He also is a member of the UMR Academy of Civil Engineers, and he has supported the civil engineering department by participating in Project 2000, a development program to prepare the department for the 21st century.

UMR presented Vernon with a professional degree in 1974 and an honorary doctorate in 1987. He also received an Alumni Achievement Award from the MSM-UMR Alumni Association in 1972 and the Chancellor Medal in 1983.

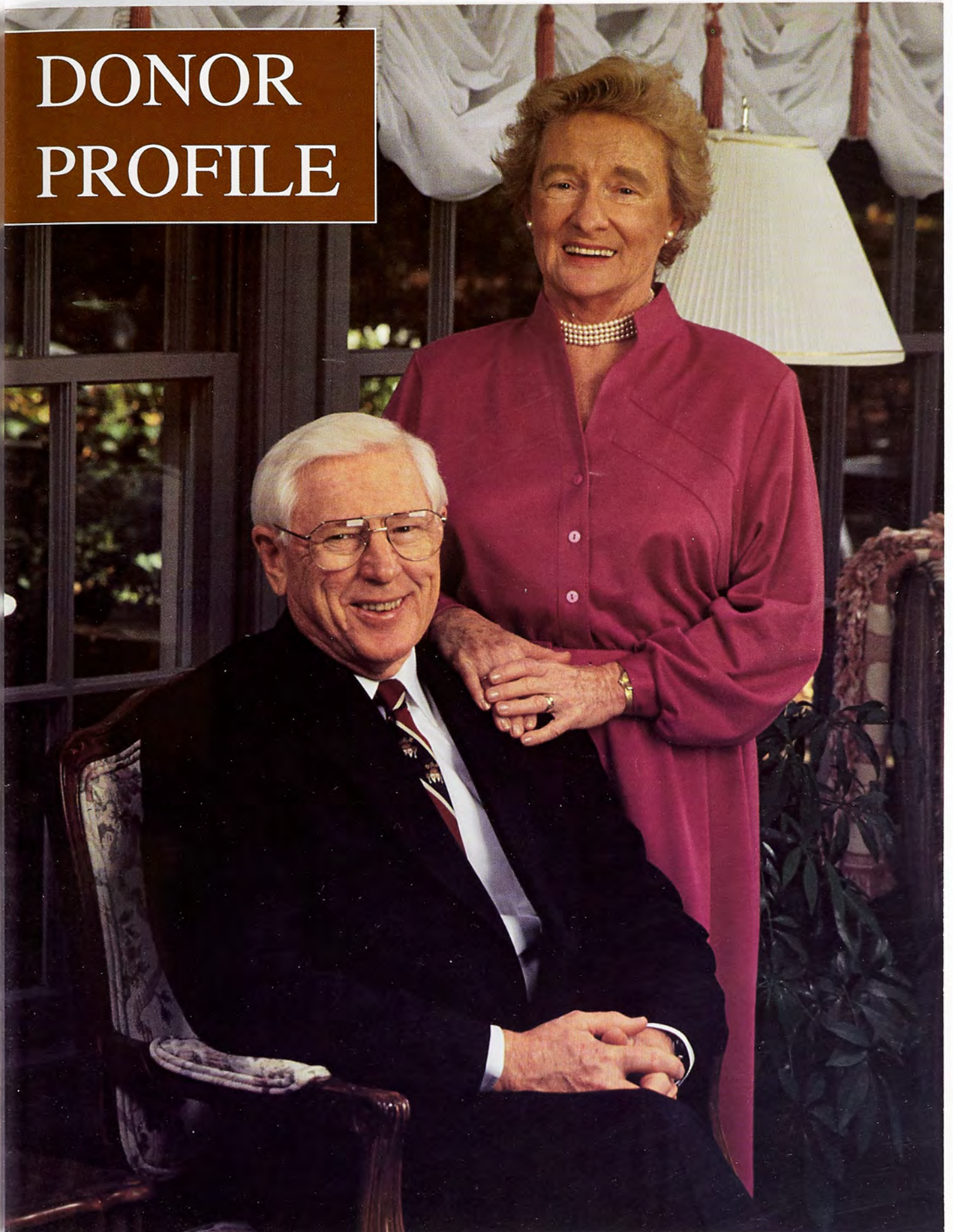
In addition to his service to UMR, Vernon has been an active member of civic organizations, serving on the board of directors of the St. John's Medical Center and Cystic Fibrosis organization. He is a past member of the board of directors of the executive committee of Goodwill Industries of Tulsa. He has also served on the board of directors for the Boy Scouts of America, United Way, and Children's Medical Center.

He is an ardent supporter of the arts in Tulsa, where he is president of the Tulsa Philharmonic Society.

Vernon & Maralee Jones

The Vernon and Maralee Jones Endowed Professorship in Civil Engineering will support a distinguished professor in the area of infrastructure engineering, which deals with highways, bridges, buildings and other structures.

DONOR PROFILE



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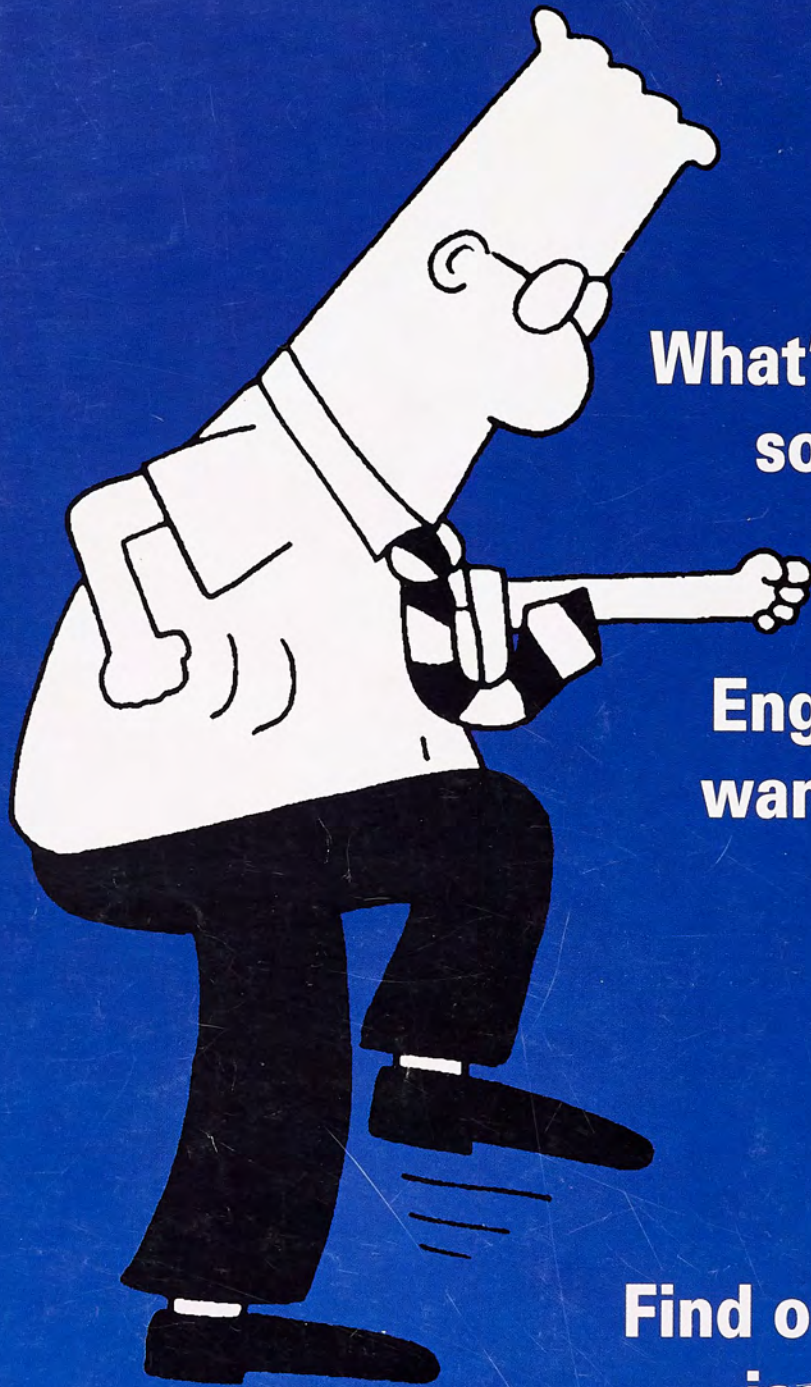
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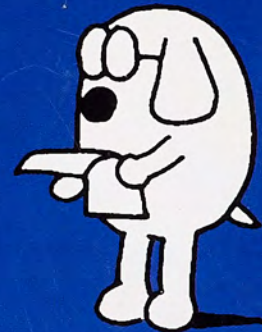
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