



## Missouri S&T Magazine, November 1991

Miner Alumni Association

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# MISM ALUMNUS

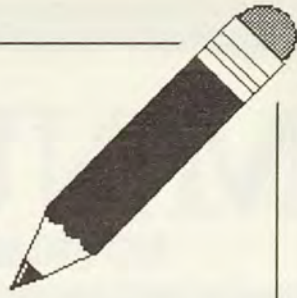
VOL. 65, NO. 4

NOVEMBER 1991



A PUBLICATION OF THE MISM/UMR ALUMNI ASSOCIATION

## CALLING ALUMNI AUTHORS!!



Do you have an interesting or funny story to tell? Have you written an informative article that would appeal to your fellow alumni? The Alumnus is looking for alumni-written articles for future issues, so if you have a short article that you'd like to see in print, send it to us. Our editorial staff will review all submissions and will choose the ones of greatest interest for publication. Please send photographs or illustrations as appropriate. All submissions will become property of the Alumnus unless you specifically request that we return them to you and enclose a stamped, self-addressed envelope for their return. Send all submissions to Alumnus Magazine, Alumni Authors, Castleman Hall, UMR, Rolla, MO 65401.

We're looking forward to hearing from you soon!

## WANTED: BOOKS BY ALUMNI

If you've published a book and would like it displayed in the MSM-UMR Alumni Association Alumni Book Collection, we'd love to have a copy. We have a beautiful new display case and bookcase in the Alumni Lounge, and we're looking for important alumni-related items to place in them.

So if you'd like to be part of the collection, send your book to Renee Stone, Alumni Office, Castleman Hall, UMR, Rolla, MO 65401.

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# MSM ALUMNUS

A Publication of the MSM-UMR Alumni Association

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# HOMECOMING

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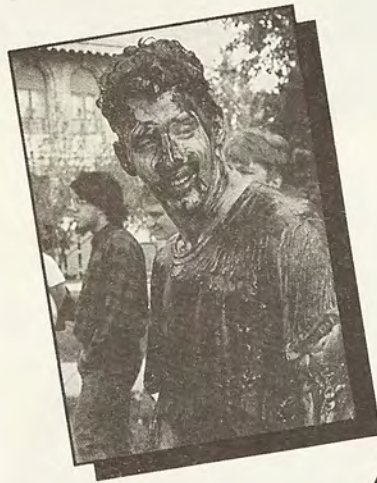
(LEFT) UMR SENIOR NOEIDA CASTRO, AN ENGINEERING MANAGEMENT MAJOR FROM FROM KANSAS CITY, WAS CHOSEN 1991 HOMECOMING QUEEN.  
(RIGHT) TWO CLASSMATES CATCH UP ON NEWS OUTSIDE THE UNIVERSITY CENTER.

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PHOTOGRAPHS *by* KATHY MATTHEWS *and* MARIANNE WARD

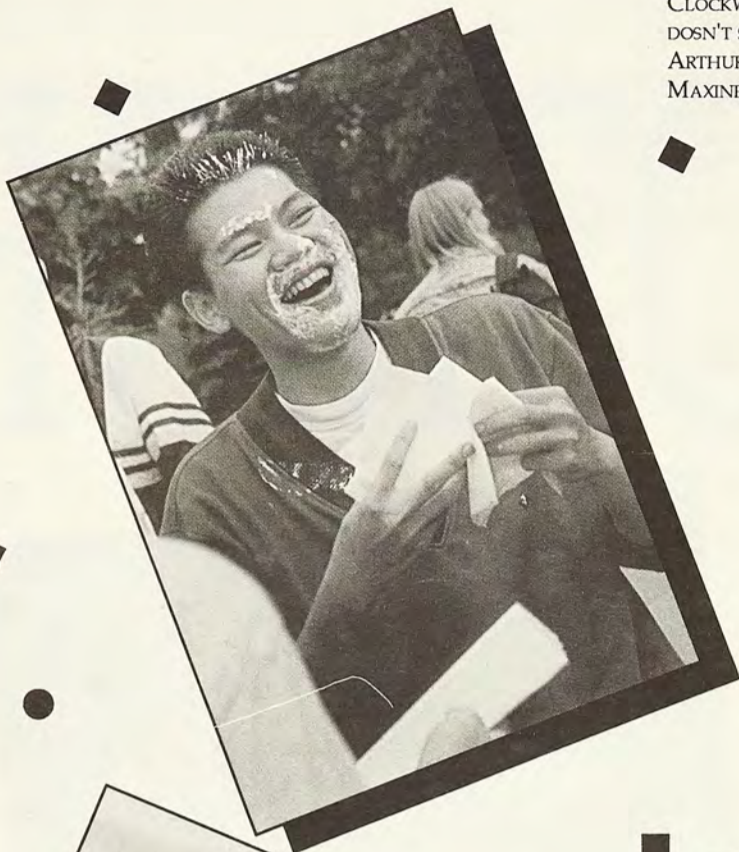
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CLOCKWISE FROM UPPER LEFT: ELLEN AND GEORGE DONALDSON, '51, SHARE A GOOD STORY WITH JOHN MULHOLLAND, '52; DON DOWLING AND RICHARD ROEMERMAN, FROM THE 40-YEAR REUNION CLASS; TWO IMAGES FROM THE STUDENT UNION BOARD "MUD" WRESTLING CONTEST (THE MUD WAS CHOCOLATE PUDDING); MARY AND KEITH WICK, '51, LORETTA MOSCARI, GERALD, '28, AND LEONA ROBERTS, AND JOHN MOSCARI, '51; AN ENTHUSIASTIC FAN CHEERS FOR THE FOOTBALL MINERS.



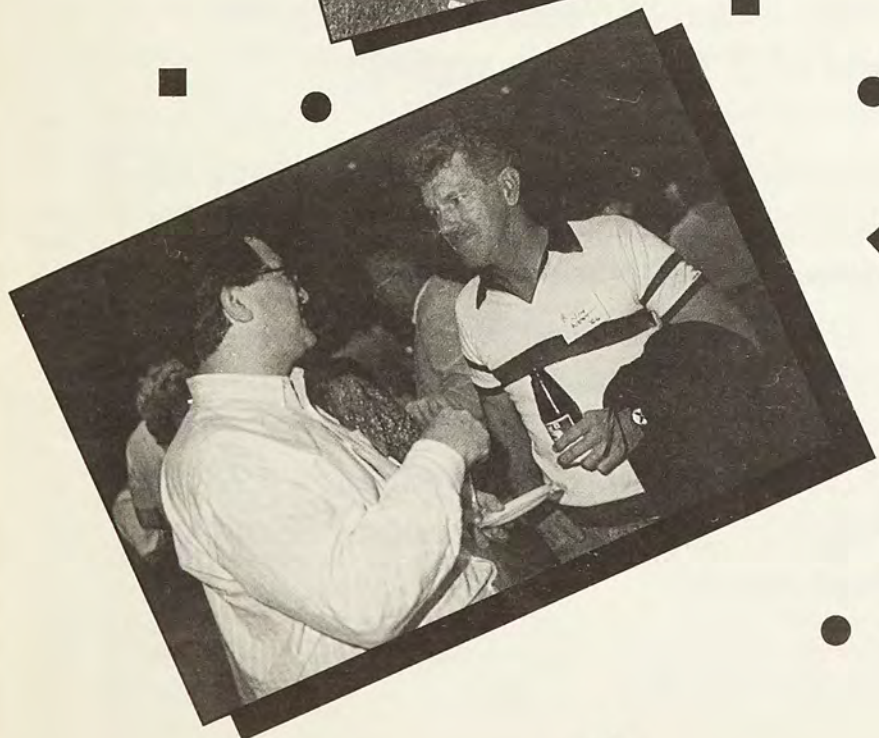
ALUMNUS

CLOCKWISE FROM UPPER LEFT: A CONTESTANT IN THE STUDENT UNION BOARD PIE EATING CONTEST DOESN'T SEEM TO MIND GETTING MESSY; A GROUP FROM THE CLASS OF '37...INCLUDING DORSE BISHOP, ARTHUR AND BONNIE LEE McCLANAHAN, JOHN SHEPPARD, METHYL BISHOP, FRANK APPLEYARD AND MAXINE SHEPPARD; ELMOND CLARIDGE, '39 LISTENS TO CHARLES HUNZE, '33, '34;



GERALD AND JAN ALFREDSON, PARENTS OF MINER FOOTBALL OFFENSIVE LINE GUARD BRIAN ALFREDSON, ENJOY A TAILGATE PICNIC BEFORE THE GAME; MARY TAUSER, HULON MCDANIEL, '51, AND RAY TAUSER, '56; THE MINER BAND SPORTED ITS NEW UNIFORMS DURING THE HALFTIME SHOW.

CLOCKWISE FROM UPPER LEFT: JOHN HOOPER, WINNER OF THE STUDENT UNION BOARD COW CHIP TOSS CONTEST DISPLAYS HIS TROPHY, AND A SAMPLE OF WHAT HE TOSSED; ANOTHER CONTESTANT, WEARING RUBBER GLOVES, DOESN'T LOOK TOO PLEASED WITH PARTICIPATING IN THIS CONTEST; CARL BLOCK AND ED WALTON, BOTH CLASS OF '56, VISIT BEFORE HAVING THEIR CLASS PICTURE TAKEN; CONTESTANTS IN THE S.U.B. BEST HOMECOMING JINGLE CONTEST; GRETTE AND JANICE HERRICK, TALK WITH BRUCE MCCOY, '81; JACK HALPERN AND JIM WEST, BOTH CLASS OF '66; STUDENTS READY AN ENTRY IN THE S.U.B. EGG CATAPULT CONTEST.





# ALUMNI

## ACHIEVEMENT AWARDS

*UMR's Alumni Achievement Award is presented for outstanding service in areas of business or academic accomplishments and for civic affairs achievement or recognition.*

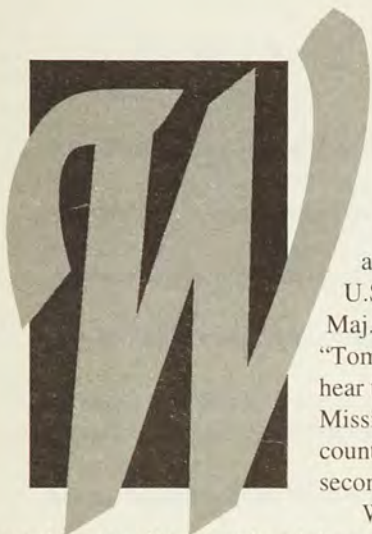
*Three outstanding alumni, selected for the award this year, were honored during Homecoming. They are Thomas D. Akers, Edward L. Calcaterra and Larry E. Farmer.*

*Akers, a major in the United States Air Force, is an astronaut with the National Aeronautics and Space Administration. He resides in Seabrook, Texas. He received B.S. and M.S. degrees in applied mathematics from UMR in 1973 and 1975.*

*Edward L. Calcaterra of St. Louis is president of J.S. Alberici Construction Company, a major construction firm in the St. Louis area. Calcaterra earned a B.S. degree in civil engineering in 1955 from MSM.*

*Larry E. Farmer of London is president of Brown & Root Marine, a marine engineering firm. Farmer earned a B.S. degree in civil engineering from MSM in 1961. He later earned master's and Ph.D. degrees from the University of Texas-Austin.*

By Marianne Ward



With less than a minute to go, U.S. Air Force Maj. Thomas "Tom" Akers could hear the voice from Mission Control counting away the seconds.

With 31 seconds to go, silence replaced the voice. The countdown was called to a halt.

At that moment, astronaut Akers, '73 and '75 Applied Math., felt let down. It was Oct. 6, 1990, a long-awaited day—the day he was to launch into orbit in the space shuttle, Discovery.

"Stopping the countdown made everyone's heart sink. Once you have gone through getting up early, getting your suit on and strapping in, you really want to launch," Akers says. "Also, when the countdown is delayed that close to lift-off, it's usually something pretty serious."

Fortunately, nothing was seriously wrong and the countdown proceeded. It was the moment everyone had been waiting for: lift-off.

"Three-two-one..."

"I was expecting more of a violent ascent than we had," he says. "I had heard ascent was really exciting and it was, but I was expecting more. The initial jolt is comparable to someone running into the rear end of your car at 10 or 15 miles per hour. The speed coming off the launch pad actually is slow."

## T O M A K E R S

That feeling doesn't last long, though.

"Eight or nine seconds into the launch, you feel the acceleration. You can tell you're really moving," Akers says.

"During the first two minutes, while the solid rockets are burning, it's a lot like a roller coaster ride. You have some sideways shaking and rattling similar to the way it feels when roller coaster wheels move on a track.

"Once the solid-rocket boosters come off, the noise subsides and it sounds like a commercial airline. That lasts for another 6 1/2 minutes and then powered flight is over," Akers says.

There are just 8 1/2 minutes of powered flight. "During that time, the most Gs you feel are three. During the last minute of flight, you're pinned in your seat. If you have a big muscular chest, which I don't, it gets hard to breathe because your chest weighs three times as much. I remember one of my fellow astronauts saying it felt like a gorilla was on his chest," Akers says.

"Once the main engines shut off, you're in zero G and you're weightless. So, in a matter of minutes, you go from being pinned in your seat to literally floating in your straps," Akers says.

As soon as they are in orbit, the astronauts get out of their seats and begin work. Akers' primary job was to deploy Ulysses. (See the related story.)

First, Akers helped the others out of their space suits. Shorts, T-Shirts and socks are standard attire once the astronauts are in orbit.

As Akers helped them, he quickly found out how difficult it is to work in space.

"I had been warned you are very inefficient at first. You start to do a job and find that you're upside down. Or, you start to work with something and it floats off," Akers says.

"During those few minutes, I felt like we were starting to get behind. We weren't, but we were not getting things done as quickly as we had on the ground. It was kind of frustrating because I'm the kind of person who likes to do things right the first time and that wasn't happening. I was really clumsy at first," Akers says.

There are some benefits to weightlessness, however. "In zero gravity, heavy objects are easy to move," Akers says. "It's a neat experience."

Being in space truly is a unique experience, Akers says.

"I think there are two major differences about being in space versus being here on Earth: One is floating around and the other is the view of the earth. I think the neatest thing was looking down at the earth. After a while, you get used to floating around but I never did take for granted watching Africa and South America go by.

"You can't look down and see the shape of Africa but you can recognize rivers and cities. I remember flying over near Houston and thinking, 'That's where my wife and kids are now.' In the daytime, you can make out cities and runways. That even surprised me," he says.

"We were only about 160 miles above the earth. From that distance, you're still very close to the earth. Most people think we can look down and see the whole earth but we can't. The only people who got to see the whole earth were the Apollo astronauts who went to the moon."

Throughout his flight, Akers was task-oriented. "Even on ascent, I was looking over my cue card. It was a couple of days before we stopped and said, 'Hey we're here.' We are working when we're



up there. The photos of us having fun are staged because people really enjoy them. In fact, I never once just floated up and looked out the window at the earth and really appreciated it. I always had a camera in my hand. Afterwards, I told a classmate to take time out on his first flight, float up to the window and enjoy

the beauty of the earth."

Akers will have another chance. He is scheduled to go up in the shuttle again in April 1992 as a mission specialist. During this mission crew members will attach a new booster and redeploy the Intelsat satellite and Akers will perform one of three spacewalks.

***"I had been warned you are very inefficient at first. You start to do a job and find that you're upside down. Or, you start to work with something and it floats off..."***

Akers credits much of his success to the strong educational foundation laid at UMR.

"I enjoyed college. I always tell people if it would pay better, I would be a professional student. I really enjoyed the challenges and the camaraderie at UMR," Akers says.

"No doubt the fact that I got my education at UMR helped me get to NASA," Akers says. "A degree from UMR is looked upon with respect."

Since graduation, Akers has kept in touch with professors and fellow alumni. During Homecoming,

he was named a 1991 Alumni Achievement Award winner.

"This Alumni Achievement Award is a special honor to me," Akers says. "I feel fortunate just to be here at NASA and to get to do this. I don't know how to react. I feel proud that they are honoring me but I think there are a lot of people who have done as much or more than I have to further improve things in our country. I just feel like I'm down here having a good time."

Despite all of his accomplishments, Akers is most proud of his family.

"My wife, Kaye, always has been supportive. She takes care of everything at home so that I can put 100 percent of my energy into doing my job and I really appreciate that. I try to spend as much of my free time as possible at home and we go back to Missouri two or three times a year," Akers says.

His children, David Allen and Jessica Marie, aren't as impressed about their father being an astronaut as people might think.

"They were excited last fall when I went up in space," Akers says. "But my son was most excited about me being an astronaut when I got a couple of free tickets to watch the Boston Celtics play the Houston Rockets. I wasn't in town so he got to use my tickets. He got to go down in the locker room and meet Larry Bird. He was more excited about that than anything I've ever done," Akers says.

Akers, now 40, was 31 years old before deciding he wanted to become an astronaut.

"I never wanted to be an astronaut until I went through test-pilot school in the Air Force in 1982. I really liked my job and didn't apply to NASA until 1985. Once I interviewed in 1985, I decided this is what I really wanted to do. This is the ultimate test-engineer's job in the flight business," Akers says.

"I feel really lucky and fortunate to be an astronaut," Akers says. "The competition is really tough."

Out of about 2,000 applicants, 13 to 20 are selected every few years. There are about 100 members in the astronaut corps. The average age at selection is mid 30s. One of the basic requirements to become a mission specialist astronaut is to have a bachelor's degree in science, engineering or medicine.

"Anything you can do to make yourself look better on paper, such as good grades in college, the better your chances," he says.

The first time Akers was interviewed by NASA in 1985, he was not selected for the program. But in 1987 his luck changed. When he learned he had been selected, "I was exhilarated," Akers says.

"I have no doubt that my academic performance at Rolla helped me look more qualified on paper," Akers says.

Akers, a graduate of Eminence High School in Eminence, Mo., received his bachelor and master of science degrees in applied mathematics from UMR in 1973 and 1975, respectively.

Based on the information received, applicants are selected for interview.

Surprisingly, no technical questions are asked. The whole interview is about what the individuals have done since high school.

## A b o u t U l y s s e s

Mission Specialist Tom Aker's primary responsibility aboard the Shuttle was to deploy the Ulysses spacecraft six hours after launch.

Ulysses will gather data about the polar regions of the sun as it goes over the top of and underneath the sun. It won't start collecting data until the summer of 1994.

"In February, Ulysses will go to Jupiter and use the gravity of Jupiter to sling it underneath the ecliptic plane that all the planets go around the sun in," Akers says.

Other scientific studies involving radio waves are being conducted as Ulysses makes its way to Jupiter.

Though the purpose of Ulysses is to gather data about the sun, it will never get any closer to the sun than Earth is. "You don't have to be very close to collect the type of data about the sun that we're interested in," Akers says.

Ulysses will gather information about solar phenomenon such as solar wind, emissions, solar flares and magnetic fields to predict their effects on Earth.

"We've never seen what the solar wind and emissions from the sun look like in that area. Scientists believe the emissions will be less complex and purer close to the top and bottom of the sun. In the past, every time scientists have tried to study the sun, the curves of the emissions from the sun's equator (caused by the sun's rotation) have made it difficult."

"Through this scientific exploration mission, I guarantee you we'll find out something that we didn't know about the sun. There are a lot of predictions, but I bet we learn something we haven't even thought of," Akers says.

***"Afterwards, I told a classmate to take time out on his first flight, float up to the window and enjoy the beauty of the earth."***

"There are a lot of 'why' questions," Akers says. "All the questions are easy; you know all the answers. They're just trying to get to know you in an hour and a half," Akers says.

"Once you come down and interview, you are foolish to think you're a shoo-in. Out of the hundred they interview, all are highly-qualified individuals. When I first got there for the interview, I remember thinking, 'What am I doing here? These people are a lot smarter and more qualified than I am,'" Akers says.

Akers doesn't know why he was selected; he is content just being with NASA.

A typical day for Akers may include testing equipment, weightless training, attending a crew meeting, studying, reviewing time lines and flying T-38 Air Force jets.

During the past six months, Akers has been a member of the close-out crew at Kennedy Space Center, Fla. "I think it's a lot harder to be on the ground in terms of being nervous and apprehensive

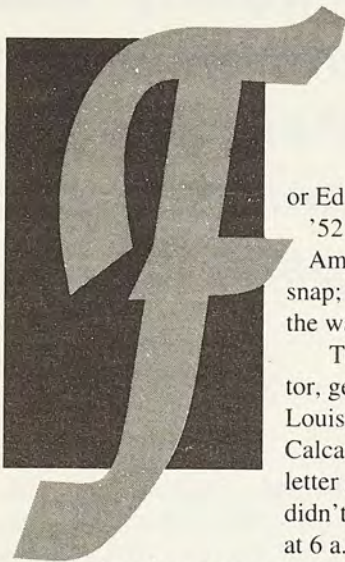
about a shuttle launch. I know I had no apprehension or nervousness being in the shuttle."

Before daylight, the shuttle crew members and the five or six members of the close-out crew are the only ones on the launch pad. Though Akers has had to walk away after crew strap-in during these last six months, in April 1992, he will remain on board for his second shuttle launch.

Then he once again will hear the shuttle come to life with its creaking, hissing and groaning as the propellants (hydrogen and oxygen) begin to expand and vent out of their tanks.

Today, the space shuttle is the primary system for putting people into space. Long-range plans include building the space station Freedom. In 15 to 20 years, NASA's plan is to put people on Mars.

"During the next 20 to 30 years, I think you'll see astronauts making trips to Mars. I'm convinced we have the people in our country who can solve the problems and develop the necessary technology to make this a reality," Akers says.



or Edward L. Calcaterra, '52 CE, a shot at the American dream was a snap; he let his fingers do the walking.

Turning to "Contractor, general" in the St. Louis Yellow Pages, Calcaterra began with the letter A. The first firm didn't answer the phone at 6 a.m. so Calcaterra continued to the next name: Alberici Construction Company. Not only was his phone call to Alberici answered at 6 a.m., but so was his need for a job.

That was in 1955. His starting pay was \$75 a week, the average going rate for an engineer, he says.

among the 'giants' when the size of equipment fleets are compared.

"As we've grown in size and volume, we have had to expand our geographic comfort zone and consequently have bid or performed work in most of the 50 states and also in Canada, Europe, Mexico and currently in Israel," Calcaterra says.

A combination of education, talent and wise decisions has helped bring about Calcaterra's success.

One major choice Calcaterra made early in his life "was deciding I didn't want to be a bricklayer all my life, even though it was good money at the time."

However, his brick-laying skills were not lost during his time at MSM. "I took my tools and worked on several buildings while at Rolla. I worked for (the late) Coy Marlow on the USGS

## EDWARD CALCATERRA

Calcaterra has had a love of construction since his early days as a bricklayer to today as president of J.S. Alberici Construction Company in St. Louis.

The recipient of the 1991 Alumni Achievement Award, Calcaterra was both "surprised and honored" to learn he had received the award.

His office is located in a modern, three-story 80,000-square-foot building. The company operates from 60 acres of land along the western edge of St. Louis.

His office, as he describes it, is "plain and functional—nothing fancy. There are a couple of chairs, a couple of phones and common among all the offices is red carpet." Red and white are the colors of J.S. Alberici Construction.

Photographs of Alberici projects adorn the walls. Trophies from golf outings and certificates recognizing his work with the Boy Scouts surround him, yet the trophies he is most proud of are the Chrysler Pentastar award for superior performance.

"We're the only contractor in the United States that has received the annual award since its inception," Calcaterra says. "In the industry it means a lot. Chrysler has been my personal account since I started here so I am very proud of this award."

Much has changed in the 36 years Calcaterra has been with Alberici.

"When I started here, our company's volume was less than two million dollars a year. We now bill about five million plus a week. In the beginning our equipment was good, but limited to a half dozen trucks and a few cranes. Currently we are listed

building on Pine Street. I worked whenever I could. It got me through school."

After graduating from MSM in 1952, Calcaterra worked at DuPont for a short time before being drafted into military service. During the Korean War, he was stationed at Fort Leonard Wood where he taught young recruits how to build floating bridges.

After completing two years of military service, Calcaterra decided it was time to put down roots in St. Louis.

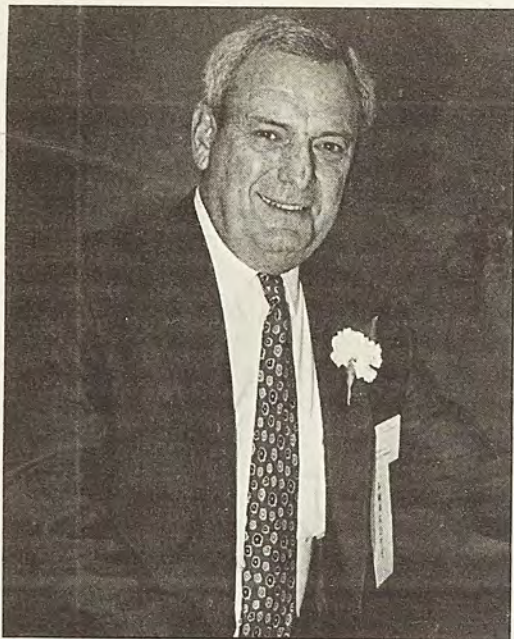
"I was married and we had one child and my wife was pregnant with our second child. I didn't want to be traveling around the world; I wanted to work for a local general contractor."

Fresh out of the military, Calcaterra's fingers did the walking to Alberici and he has been there ever since. Remaining with Alberici has been an important move for Calcaterra.

"When I first started, the company was owned by Mr. Gabe Alberici and his sister, Mary. One day I asked him if there was any chance I could be a part of the company and he said 'Yes, just have some patience.' I decided to stay even though some people had left. Now, we are an employee-owned company. That's one of the reasons we've had so much success. I'm really proud of that. We're ranked very high in financial stability, ability and size."

In 1955, Alberici was a small company and working there meant handling a project from beginning to end. "The company was so small that we were all estimators. If we got jobs, we laid them out and ran them," Calcaterra says.

Calcaterra progressed from estimator to project manager to executive vice president and in March 1991 was named president, only the third person to hold that title in the company's nearly 80-year history.



# ALUMNI

ACHIEVEMENT AWARDS

***“When I first started, the company was owned by Mr. Gabe Alberici and his sister, Mary. One day I asked him if there was any chance I could be a part of the company and he said ‘Yes, just have some patience.’”***

Calcaterra gets an early start each work day, arriving about 6 a.m.

“I don’t have to be here that early; that’s from the old days when we had crews assemble at our front door and we had to go and pick the men and assign them to jobs. We used to do that very early—between 5 and 6 a.m.—and I’ve never gotten out of that habit, even though we don’t do things that way any more.”

Most of the paper work is out of the way before the phone starts ringing and he tries to wrap things up by 4:30 in the evening.

“This is a demanding profession, but it is very rewarding,” Calcaterra says. “Over the years, business has gotten much more complicated. A company needs good lawyers and accountants.”

Despite being president of a company with 250 salaried and 1,000 hourly employees, Calcaterra takes his own phone calls. “We have an open door policy. I think it’s a great attitude to have at a company,” he says.

Though he works six days a week, Calcaterra has taken an active role in the civic community as well. He has served as a member of Junior Achievement, the Board of Directors for Cystic Fibrosis (St. Louis), director of Mark Twain Bank and served as a Regent for Rockhurst College (Kansas City). He also is a member of several professional associations.

When asked for three words to describe himself best, Calcaterra says, “I don’t know if I can come up with three words. I’ve been very fortunate and in a lot of ways—lucky. My wife would describe me as stubborn,” he says.

He and his wife, Pat, have five children: Christine Elzea, Dr. Curt Calcaterra, David Calcaterra, Richard Calcaterra and Tracy Calcaterra. David, a civil engineer, also is employed by J.S. Alberici. The couple has nine granddaughters.

Winning the Alumni Achievement Award during Homecoming gave Calcaterra an opportunity to reflect on his years at MSM.

“When I was at Rolla, one thing I really enjoyed was seeing all the veterans returning. Being with older students was a great experience and I made many friends. I really enjoyed the intramural sports programs, as well as fraternity life.”

Calcaterra was a member of Theta Kappa Phi, which today is Phi Kappa Theta.

Calcaterra continues to keep in touch with fellow alumni. “Of course, I see a lot of alumni in business in St. Louis,” he says.

Calcaterra’s professional accomplishments have been many. “For me, graduating from MSM in four years was a big accomplishment. Being named president of Alberici and receiving the alumni award also have been achievements,” he says.

Still, Calcaterra is not boastful about his success. “I was surprised and honored to win the Alumni Achievement Award. I’ve always considered having gone to Rolla as playing a big part in my being able to do my job.”

Calcaterra encourages engineering students to follow in his footsteps. “I’d like to encourage young engineers to consider construction as a career. There are great opportunities.

“I would personally suggest that new graduates consider smaller companies as their first place of employment. With the discipline and knowledge acquired at MSM, along with hard work and dedication, they can reach their full potential and make it to the top,” Calcaterra says.

L A R R Y F A R M E R

***“A really good team is a lot of fun. The contribution of a fun team is greater than the sum of the individual contributions. Having fun is a very important ingredient and that usually comes with having responsibility and being appreciated.”***



**ALUMNI**  
ACHIEVEMENT AWARDS



arry Farmer, BS CE '61, enjoys being at center court—whether it's watching the tennis action at Wimbledon or taking action on a \$1 billion offshore project.

Farmer is president of Brown and Root Marine, headquartered in Wimbledon, England. Brown and Root Marine is one of seven business units of Brown and Root. The Marine unit engineers and builds permanent offshore oil platforms and pipelines after oil has been discovered. About 7,500 people are employed in Brown and Root Marine's offshore business and another 4,500 in the firm's engineering company.

"We are the largest engineering company in the offshore business by a factor of three," Farmer said.

A native of Ash Grove, Mo., Farmer has more than 28 years experience in structural and marine engineering, project engineering, project management and engineering/construction executive management.

A man of few hobbies, the UMR alumnus is most interested in his family and business. And despite being president of an international corporation, Farmer is most proud of his family.

"My wife (the former Kathleen "Kathy" Wilson of Rolla) and I have two daughters whose accomplishments and directions we are very proud of and that's probably our biggest achievement. Getting them started in the world has been our most important accomplishment. Most of the credit for that goes to Kathy who, at the expense of her career, stayed home with the girls and was always home when she was needed," Farmer says.

Julie, 22, a graduate of the College of William and Mary, works with underprivileged children in Michigan. Meredith, 19, started her sophomore year at the University of Kansas this year.

The list of Farmer's professional achievements is quite extensive. He was project manager of the first tension leg offshore oil platform, a \$1.5 billion project, which started in 1980 and until recently, was the Marine unit's largest engineering project.

From 1982 to 1985, Farmer served as vice president and chief engineer for Brown & Root (UK) Limited. Within 33 months, the number of employees nearly doubled from 750 to 1,350 and profits increased many fold. He helped build a solid, successful team and expanded the firm's technological base.

Designing and constructing offshore platforms is demanding. "Wind, waves, ice and the very large structures themselves are among the challenges," Farmer says. "It's quite common for the decks to be larger than a football field and several hundred feet

tall. The tallest one we have built so far is in 1,100 feet of water in the Gulf of Mexico. That's the equivalent of a 110-story building with a 25,000-ton deck sitting on top of it."

Because of their high costs in a volatile oil market, platform construction is a risky business. "Usually we're talking about projects ranging from \$250 million to \$1.5 billion. Because our clients are oil companies, our business is very dependent on the price of oil. Some fields are not economical to develop at \$20 a barrel," Farmer says.

Farmer witnessed a period of continuous growth from the time he joined the company in 1976 until late 1985 when oil prices dropped.

"Our business slumped until 1988 and 1989. Since then there has been a mini-boom and business has been growing steadily," Farmer says.

Political stability also plays a role in Farmer's business. "When countries become politically unstable, oil companies don't want to invest the magnitude of money it takes to construct the platforms," Farmer says.

In recent months, oil companies have turned their eyes toward the Soviet Union. "The Soviet Union has tremendous deposits of oil and gas but the government can't get its act together to tap the resources. Soviet leaders are now showing an interest in foreign companies coming in and developing these fields. Some of the fields are tremendous. If the oil companies gain confidence in the stability of the political system there, there will be many dollars spent in the USSR and we anticipate doing a lot of work there. Several projects would range from five-to 10-billion dollars," Farmer says.

Farmer talks with ease about \$1 billion projects but it hasn't always been that way.

"It took some time for me to become comfortable with dealing with that magnitude of money, but after a while, it becomes second nature," Farmer says.

A typical day for him in London includes six meetings and numerous phone calls. Farmer outlines his daily strategy: "We look at effective ways to solve problems, follow the right strategies, invest capital in the right places, treat our people properly and continue to build our team."

To build a successful team and increase profits, "it takes interest in working with the team. A really good team is a lot of fun. The contribution of a fun team is greater than the sum of the individual contributions. Having fun is a very important ingredient and that usually comes with having responsibility and being appreciated. Having people work together and achieving things we could never achieve without being a team gives me a tremendous sense of satisfaction," Farmer says.

Farmer is away from London about half the time. He travels to the United States every month for management meetings and to UMR about every other year.

"I feel I owe something to the university because it got me started in life in terms of my profession," Farmer says. "The camaraderie at UMR between students and faculty was excellent. I received an extremely good education. The instructors were very interested in teaching and in the students. They made me respond," Farmer says.

Farmer not only graduated from MSM, but also taught here from 1965-67. In 1967, he started his own computer software firm, L.E. Farmer, Inc. He sold the company to Compu-Serv Network, Inc. in 1973 and remained with the firm until 1976. That year, he began his career with Brown & Root.

Farmer's accomplishments have been many, but being named an Alumni Achievement Award winner came as a surprise to the international executive.

"I am quite proud and quite surprised. I'm certainly pleased to be honored. I guess one never feels justified in receiving an honor, but it certainly is nice," Farmer says.

As president of a company which employs thousands of engineers, Farmer is troubled about the number of high school students entering engineering fields.

"It appears there is a lack of new entrants. Because we are a more technologically complex society, that concerns me. Engineering helps add to a country's standard of living and to a nation's wealth and I fear we may be slipping. Other countries hold engineers in much higher esteem than the United States does and maybe that's the reason why other countries aren't experiencing a slump in engineering enrollment," Farmer says.

"When the space program started, there was a surge of interest not only in space engineering, but also in all types of engineering. It's my perception that the surge has subsided. We haven't had a rallying topic since and I don't believe high school students think as much about engineering," Farmer says.

He believes increased support for education and making engineering education a part of the national agenda will help prevent a decline. People also must maintain their entrepreneurial spirit, Farmer says.

"As a nation, we can't lose our self-esteem. We have to continue to think there is nothing we can't do. We have a lot going for us," Farmer says. "The world is getting very small and we have to plan to participate in it to make sure our standard of living doesn't decline."

# 1991 ALUMNI AWARDS



*Alumni award winners are (left to right): Harvest Collier, Robert Murray, Nicholas Tsoulfanidis, Larry Farmer, Rodney Lentz, Lowell Wynn, Susan Kellems, Rodney Schaefer, Sally White, Edward Calcaterra, Janice Buhlinger, Sen. Michael Lybyer and Thomas Akers.*

## ALUMNI ACHIEVEMENT AWARDS

THOMAS D. AKERS, (MAJOR, USAF)  
SEABROOK, TEXAS  
ASTRONAUT  
NATIONAL AERONAUTICS AND  
SPACE ADMINISTRATION

EDWARD L. CALCATERRA  
ST. LOUIS, MISSOURI  
PRESIDENT  
J.S. ALBERICI CONSTRUCTION CO.

LARRY FARMER  
LONDON, ENGLAND  
PRESIDENT  
BROWN & ROOT MARINE (HOUSTON-LONDON)

## ALUMNI MERIT AWARD

ROBERT E. MURRAY  
KIRKWOOD, MISSOURI  
PROFESSOR EMERITUS  
ST. LOUIS COMMUNITY COLLEGE AT MERAMEC

## ALUMNI SERVICE AWARD

MICHAEL J. LYBYER  
HUGGINS, MISSOURI  
MISSOURI STATE SENATOR  
16TH SENATORIAL DISTRICT

LOWELL WYNN  
ST. JAMES, MISSOURI  
ASSISTANT DIRECTOR (RETIRED), PHYSICAL  
FACILITIES  
UNIVERSITY OF MISSOURI-ROLLA

## HONORARY LIFE MEMBERSHIP

SALLY WHITE  
ROLLA, MISSOURI  
INFORMATION SPECIALIST, PUBLICATIONS  
UNIVERSITY OF MISSOURI-ROLLA

## STUDENT ADVISOR AWARDS

HARVEST COLLIER  
ASSOCIATE PROFESSOR OF CHEMISTRY

RODNEY W. LENTZ  
ASSOCIATE PROFESSOR OF CIVIL ENGINEERING

RODNEY A. SCHAEFER  
ASSOCIATE PROFESSOR EMERITUS OF  
ENGINEERING MECHANICS

NICHOLAS TSOLFANIDIS  
PROFESSOR OF NUCLEAR ENGINEERING

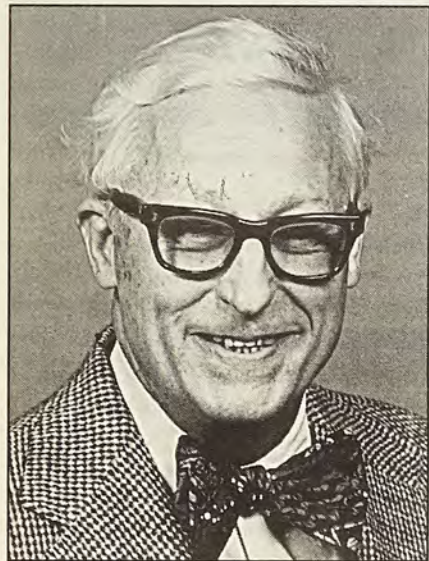
## OUTSTANDING STAFF MEMBER AWARD

JANICE BUHLINGER  
COMPUTER LIBRARIAN  
COMPUTER CENTER

SUSAN KELLEMS  
SENIOR SECRETARY  
PHILOSOPHY & LIBERAL ARTS

## Alumni Merit Award

Robert E. Murray  
Professor Emeritus at St.  
Louis Community College  
at Meramec



Robert Murray is always on the move; recently, he began diving into action underwater.

"I've always wanted to take scuba diving lessons, but I've never had the time," Murray says. "Now that I am retired I have the time and I'm the oldest member of the class."

While he was teaching at St. Louis Community College-Meramec, Murray never had time for scuba diving lessons, but he always managed to find time to help students. For the past 35 years, Murray has served as the link between students transferring from St. Louis Community College to UMR.

"I felt it a privilege to help young people enter the engineering profession," Murray says.

Murray would go out of his way to see that all interested students attended UMR's presentations. He also would assist UMR's recruiters in any way he could.

"I've worked with other schools in the state, but no one is as good at recruiting and helping students make the transition as UMR. I can't compliment them enough. They really make the students feel comfortable," Murray says.

Although he assisted students in transferring, his primary duty over the

years was to teach a variety of college mathematics and electric circuits courses. He made the courses similar to those being taught at UMR so that students could adjust easily to more advanced courses at UMR.

Assisting students has been one of his primary concerns throughout his career. He helped build a solid foundation of caring professors at St. Louis Community College as one of the first 10 faculty members hired there. "In January of 1963, I was among the first 10 hired and in May of this year, I was the last of that 10 to retire," he says.

Before teaching on the college level, Murray taught in the St. Louis public schools. He began his college teaching career in 1956 at Harris Stowe Teachers College and it was there that he began to build a lasting relationship with UMR recruiters.

"I helped them and they helped me to smooth the transition for our students," Murray says. "Most of the students were of exceptional ability but of very little financial means. We always tried to help them so they could transfer to UMR."

When he left Harris Stowe, he took with him the desire to help students make the transition from a community college to UMR.

His desire to help students is not without its rewards. He shares pride in his former students' accomplishments.

"One of my former students, now president of a technological college, wrote that an algebra class I taught was the turning point in his life. He says he had been drifting but the fact that I had demanded he do the work made all the difference. He turned into an A student and went on to earn a doctorate degree in metallurgy. Those kinds of things are very gratifying," Murray says.

Teaching many successful individuals is not his only source of pride. Murray also is proud of his family: his wife, Eula Mae "Connie", a retired teacher, and their two children, Margaret Steele, a first-grade teacher and Paul Murray, a computer firm owner.

Murray, AB '43 Harris Teachers College, BSEE '48, and MA '49, Washington University, was surprised that he was nominated for the 1991 Alumni Merit Award.

"I was surprised that someone nominated me for the award," Murray says. "I did not do the things I did to win an award, but I am pleased with the recognition."

## Honorary Life Membership

Sally White  
Information Specialist,  
Publications  
University of Missouri-Rolla



In her years of working closely with the alumni association, Sally White has learned that getting involved with alumni often leads to interesting and humorous situations.

"When I first started working in the news services/publications department at UMR, they had a meeting in St. Louis for the cross state football game. I had not been planning on going, but Frank (former vice chancellor of development and alumni affairs) and Nancy Mackaman, talked me into it at the last minute. We got to Stouffers, now the Clarion, and both teams were staying there plus quite a number of UMR alumni. The only room available was a display room with a pull out bed. It turned out to be on the next-to-the-top floor with an absolutely magnificent view of the river.

"All the alums jammed into my room because you could see all up and down the river, the Arch and everything else. It was one of the funny things that started as a disaster, but turned out to be absolutely marvelous. It was the best room in the whole place."

For all of her work and flexibility for the University of Missouri-Rolla, White has been awarded an honorary membership in the MSM-UMR Alumni Association. She is very pleased to receive this honor.

"One of the things I have enjoyed most is working with alumni. You get to meet people with a lot of different viewpoints and very interesting experiences, particularly in the alumni from UMR because they go all over the world."

White, too, has traveled and lived in several areas throughout the United States. Despite her many moves, she was quite successful in school and skipped two grades. "I only had one credit to get my senior year in high school and my grandfather said 'you are not sitting around here, you'll cause too much trouble.' He knew me very well. So I took a correspondence course and graduated when I was sixteen."

White entered Washburn University in Topeka, Kan., and in 1949 received an A.B. in history.

At twenty, she taught English in Monument, Kan.; her oldest pupil was nineteen.

She later moved to Lincoln, Neb., and worked in advertising, and it was there that she became involved in organizing the distribution of the oral polio vaccine, which had just become publicly available. She considers this to be one of her proudest achievements.

"At that point polio was really scary. I was asked to help organize the distribution of the vaccine in Lancaster County. We were the first place to try it in Nebraska. We got all the pharmacists, nurses and doctors organized, did all the publicity and had 98 percent participation, which was unheard of at the time. The doctors were very pleased and so was everybody else. So far as I know they haven't had any polio in Lincoln since."

White still works for the UMR Publications Department and is responsible for such items as the *Digest*, catalogs and other various publications.

by Rebecca Sherwood



## Alumni Service Awards

Sen. Mike J. Lybyer  
Missouri State Senator  
16th Senatorial District

For his support of rural Missouri and education, Sen. Michael J. "Mike" Lybyer has been named a 1991 Alumni Service Award winner.

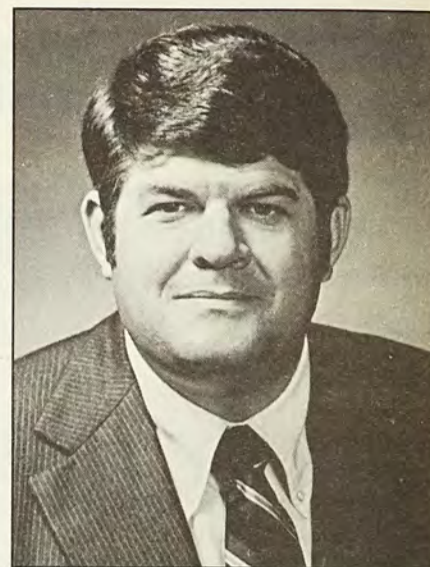
Lybyer (D-Huggins) first was elected to the Missouri Senate in 1982 and was re-elected in 1986 and 1991. He serves as chairman of the Senate Committee on Agriculture and Rural Business Development. He also serves on the Senate Committees on Conservation, Parks and Tourism, Education, Insurance and Transportation.

Lybyer's district is largely rural and he is a beef cattle farmer. Prior to his

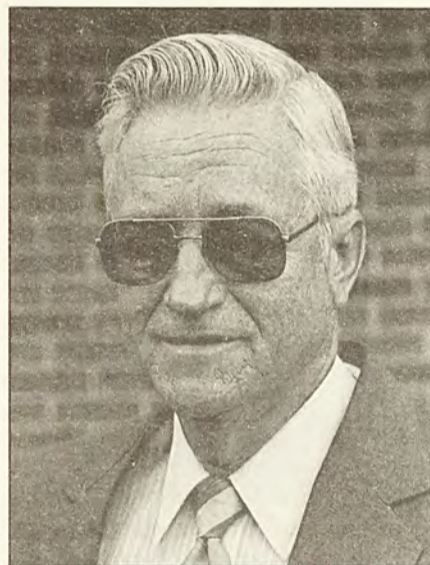
election to the Missouri Senate, he served two consecutive terms (from 1976-1980) in the Missouri House of Representatives.

Lybyer, a graduate of the University of Missouri-Columbia with a B.S. degree in agriculture, served six years in the U.S. Army Reserves, is a member of the First Baptist Church in nearby Houston, Mo., and is married to the former Mary Jane Rockhill of Lebanon. They are the parents of one son.

Lybyer, 44, is a member of the Masonic Lodge, Scottish Rite and Abou Ben Adhem Shrine.



Lowell Wynn  
Assistant Director (Retired),  
Physical Facilities  
University of Missouri-Rolla



As Assistant Director of Physical Facilities, Lowell Wynn learned to expect the unexpected. He recalls one unexpected experience that left everyone far from high and dry.

"There used to be a fire hydrant by the power plant. One day a state truck backed into that fire hydrant and broke it off. Clear off. There was a 4x4 board lying nearby so one of the guys grabbed it and shoved it down in the hole. To keep the water from shooting out, he sat on the board. Next, Mr. Shirley Tucker hollered to have a loader back over the pipe. When they did that, water squirted out and we had a whole bunch of 'sidewalk supervisors' around there and it soaked everybody."

At the time, the incident lacked humor. "It's kind of comical now, but it wasn't at the time."

Because he admirably helped to control these unexpected situations throughout the years, Wynn has been honored with the 1991 Alumni Service Award.

This is one of many recognition awards he has received for all of his work and dedication to making UMR an efficient learning environment. In 1974 he was chosen as Employee of the Month and was dubbed an honorary knight for the St. Patrick's Day festivities in 1988.

Wynn grew up on a farm near

Meramec Springs and, after graduating from high school, served in the United States Army. He served in combat duty during the Korean War and later became a corporal for the Military Police. In 1954 he returned to his Rolla area roots.

In 1959, he began working for UMR. "I started at the bottom as a utility helper for \$1.30 an hour and when I retired I was Assistant Director of Physical Facilities. I loved it. I started out doing everything. I enjoyed all of it. I feel that I was lucky to get the experience."

He considers the hard work and dedication which helped him work his way to assistant director to be his greatest professional accomplishment.

Also in 1959 he began taking classes at UMR and other accredited institutions in electrical engineering and engineering management to develop a greater depth of understanding for engineering.

"I bought my own books and used my own time to learn what I needed to know. There were no scholarships. It was all out of my pocket. I wanted to learn and that was the only way I had of doing it. I became the first refrigeration mechanic the university ever had."

Although every course he took at UMR was useful, it didn't always seem that way when he was on call 24 hours a day, seven days a week. Wynn describes

himself as the same man now who first came to UMR, except then he had more energy and now he has more to do.

Now that he's retired, he's chairman of the senior housing corporation, runs a small farm, and does maintenance work for his church. Prior to taking early retirement in 1991, Wynn was responsible for providing the UMR campus with building and grounds maintenance, custodial services, utility distribution and support of vehicle services, renovation and special events. Wynn has been described as "undoubtedly one of the most dedicated workers on the campus."

Wynn's work was not only beneficial to the university, but also to him. "I've enjoyed my work here immensely and I miss it."

He had good relationships with everyone he worked with on campus, and still keeps in contact with former co-workers. Wynn is not one to brag about his accomplishments. He says he got a lot of help when he worked at UMR. He gives much of the credit for his success to others. "I've had very good relationships with everyone who worked with me. I've had a lot of good help."

Yet of all the people who helped Wynn, he is most grateful to his wife, Jacquelyn, who has always given him support, "even when I didn't deserve it."

by Rebecca Sherwood

# MSM-UMR ALUMNI ASSOCIATION BOARD OF DIRECTORS REPORT

**N**ext year will see the addition of a new award to be presented by the MSM-UMR Alumni Association. The Frank H. Mackaman Volunteer Service Award will be instituted, with the purpose of recognizing outstanding service to the association by an alumni volunteer. This award will be supported by the income from the endowment fund created by gifts given to the association in Mackaman's memory. Acceptance of this award program was one of the orders of business at the fall meeting of the board of directors of the MSM-UMR Alumni Association held on Friday, October 4, 1991, in the Alumni Lounge of Castleman Hall.

In other business, it was moved that one of the alumni scholarships be named the Frank H. Mackaman Alumni Scholarship and another be named the Ike Edwards Alumni Scholarship. The board enthusiastically and unanimously passed this motion.

Also, three new alumni sections were chartered by the board. Two are geographic sections, the Alaska Section and the Colorado Section, and the other is a special interest section, the Miner Music Section, composed of alumni who participated in music programs while in school. In addition, four new scholarship endowments were accepted that will provide income for student aid. They are the Lloyd A. Elifrits Scholarship, the Earl Feind Scholarship, the Tech-Engineering Scholarship, and the Dyle & Robert Wilson Scholarship.

President Bob Patterson, '54, recognized retiring board members David Peacock, '64; Royal Webster, '55; and Roy Wilkens, '66; for their years of service to

the board. Each retiring board member is presented with a pewter Joe Miner sculpture created by Bob Wolf, '51. New board members were introduced, and they are as follows: Jim Bertelsmeyer, '66 - Area Director, Oklahoma and Northeast Texas; Bill Gammon, '49 - Area Director, Alabama, Florida, Georgia, North Carolina and South Carolina; Vic Hoffmann, '60 - Area Director, Alaska, North and Central California, Hawaii, Oregon and Washington; Doug Haney, '92 - Student Representative, Student Union Board.

The budget for 1992 was approved, as recommended by the Finance Committee, at \$404,000, which is basically the same as budgeted in 1991. The association's budgeting process is moving to a program format, allowing the board to see exactly how the money is spent. This year's financial picture is good, as both income and expenses are close to budget. While the number of gifts to this year's annual fund is lower than last year, the dollar amount of those gifts is higher. The decrease in number of gifts is attributed to the fact that last year was the year the directory was published, and many people made small gifts in order to receive their copy of the directory.

Changes were approved to the association's scholarship program, to relax the grade point requirement for renewal to 3.2 for Alumni I scholarships, and to allowing a partial award for Alumni II sophomore recipients with grade point between 3.2 and 3.5. The Alumni II scholarships were restated as being intended to be 4-year awards, while the Alumni I scholarships are positioned primarily as 2-year awards. The scholarship program is to be funded at \$259,750 for 1992, which is level with the amount budgeted in 1991.

## CLARIFICATION OF MSM-UMR ALUMNI ASSOCIATION GIFT POLICY

Some of you have had questions about gifts to the association and to the university, and about what qualifies you for the association's Century Clubs. Here is an excerpt from the gift policy established by the association's board of directors that may make the guidelines more clear:

"Any gift made to the alumni association for unrestricted purposes or to restricted association accounts in excess of \$100 qualifies the donor for the association's Century Clubs. If a gift of \$100 or more payable to the association is then totally transferred to a university account, this will not qualify the donor for club membership."

This policy was adopted by the board in October 1989.

# OUR UNIVERSITIES

GRADUATION DAY'S REAL STAR

TO TAKE THIS PRECIOUS NATIONAL RESOURCE FOR GRANTED IS A TRAGEDY. IN OTHER WORDS, WHEN THE ALUMNI ARM-TWISTERS COME ATWISTING, GIVE. GIVE MONEY AND, MORE IMPORTANT, GIVE TIME.

by Tom Peters

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**A**s ordered, the thunderheads broke up at 10:30 a.m. on Sunday, May 26, 1991, and the sun bore down on 5,800 about-to-be graduates of Cornell University. In they marched to Schoellkopf Field — each group preceded by a colorful banner proclaiming their membership in the school of engineering, arts and sciences, architecture, business, hotel administration and so on.

Unless we attend one of these affairs, we take such scenes for granted. And when we attend, we seldom reflect on anything beyond our graduating Sarah or Sam. That's a mistake. Here are a few thoughts on Cornell's 123rd commencement.

1. Hail the university. Have no doubt, our universities and colleges are our No. 1 relative competitive strength. *That's right, number one.* You can debate about the openness of this market or that forever without reaching agreement. But almost no one disagrees about America's awesome higher education advantage.

Are our universities too bureaucratic? Of course, by a long shot. Is undergraduate teaching up to snuff? Certainly not. But taking all flaws into consideration diminishes neither the top-of-the-line excellence in U.S. universities (the Cornells, Stanfords, Berkeleys, Michigans, MITs) *nor* the depth exemplified by thousands of superb, unsung schools.

To take this precious national resource for granted is a tragedy. In other words, when the alumni arm-twisters come atwisting, give. Give money and, more important, give time. Talk up the university system to any politician you can find. Our k-12 system cries out for attention. Our university system merits ringing applause — and continued, vigorous support.

2. There were a lot of Chens. At the Cornell commencement, the new PhD's included numerous Chens, Huangs and even a Zaghw. Three hearty cheers! What recognition of our universities' prowess: Everyone, from everywhere, wants in. And we are the disproportionate beneficiaries. I can passionately make the case for Dr. Raj returning home to serve India. But I'm also selfishly glad to have him and his countrymen stay by the thousand in Silicon Valley.

3. The university *is* real. At a government department affair following commencement, Professor Theodore Lowi surprised students by pooh-pooing the idea that now they were headed for "the real world." The university is the real world, he insisted. I agree! The "knowledge society" is here — from the practice of law to the design of semiconductors. We've never been so dependent upon universities to be flag bearers for our economy.

4. The college store as market microcosm. As a Cornell grad, I took this occasion to stock up on memorabilia. What a headache — by my count, over 350 versions of Cornell-emblazoned sweatshirts, T-shirts, shorts, sweatpants and even underwear crammed the shelves of two campus "souvenir" stores. I've never come across a better example of market fragmentation and product proliferation. There was even a variety of duds for "Dad (Mom) of the Class of 1991 Grad." What a far cry from the gray Cornell sweats that stood almost alone 25 years ago!

5. Books and rebellion. On any campus, I make a beeline for the university bookstore. This trip I picked up Cornell Professor Steven Shiffrin's new

HAIL THE  
UNIVERSITY.  
HAVE NO  
DOUBT, OUR  
UNIVERSITIES  
AND COLLEGES  
ARE OUR No. 1  
RELATIVE  
COMPETITIVE  
STRENGTH.  
*THAT'S RIGHT,*  
NUMBER ONE.

book, *The First Amendment, Democracy, and Romance*. Shiffrin contends that the narrow debate over the propriety of Robert Maplethorpe's photos is not the most important strain of first amendment issues. He sees the first amendment as the key to Americanism, meant to spur nothing less than dissent, unorthodoxy, and even rebelliousness. Amen. Shiffrin offers a welcome reminder of the diversity and dissent that makes us special, and the vociferous disagreement about *everything* that makes our universities so potent.

6. Love. In his commencement address, Cornell President Frank Rhodes told the initiates into America's credentialed elite that our commitment, our passion, our love for one another is what matters. I don't know if he stirred the students sweltering in the unseasonable heat and humidity; but he got to me, and I think a lot of other parents.

7. Giving Back. President Rhodes also honored a couple of retiring trustees, including my fraternity brother, Ken Blanchard — yes, the One-Minute Manager. If Norman Schwartzkopf deserved a knighthood from the Queen, Blanchard deserved long applause from Rhodes and the rest of us. He gladly gave thousands of hours as a trustee; and he coughed up a million bucks to fund an endowed chair. Now that's what I call remembering who *brung ya!*

8. Time Flies. Blanchard's contributions, those 1991 grads, and my own matriculation 31 years ago were cause for reflection. When I give commencement talks, I challenge new grads to "be interesting." You are, I say, "our best and brightest." You "owe us the favor not of success, or wealth, but of daring to be bold." So, 31 years later, have I been bold? Have I honored the investment made by my parents, my teachers, my university?

I can't answer that. But I will ask one more question: Have you honored our universities this year with your support — or criticism? Both count. If you haven't, you've turned your back on a vital national asset. Please don't take our universities for granted. No one outside the U.S. does.

# INSIGHT ON...

## The UMR Advisory Committee for African- American Recruitment and Retention

In April 1985 several alumni and collegiate members of Alpha Phi Alpha Fraternity met with Chancellor Joseph Marchello to express their concerns about recruitment and retention programs for African-American students at UMR.

Eugene D. Jackson, '67, and Lawrence C. George, chapter adviser for the fraternity, served as moderators for the meeting, and Roscoe R. McWilliams, '72, served as secretary. The next day, the Rolla Daily News reported the resignation of Chancellor Marchello, prompting Lawrence George to write C. Peter Magrath, UM president, detailing the meeting for his information.

Interim Chancellor John T. Park then arranged for concerned alumni to meet with UMR staff members to initiate communication between the two groups. This was the first official meeting of the UMR Advisory Committee for African-American Recruitment and Retention. Those attending this meeting were Interim Vice-Chancellor Nick Tsoulfanidis (who chaired the meeting), Dean Marvin Barker (College of Arts and Sciences), Don Brackhahn (Alumni and Constituent Relations), Floyd Harris (Minority Engineering), Robert Lewis (Admissions), Dean B. Ken Robertson (Dean of Students), Lawrence C. George (Alpha Phi Alpha adviser), and the following alumni: Larry E. Goodwin, '71; Wayne C. Harvey, '69; Gregory D. McClain, '72; Roscoe R. McWilliams, '72; Zebulun Nash, '72; Veo Peoples, '70; and Bennie Young III, '86. Other committee members appointed by Dr. Park but unable to attend were: Charles L. Casteel, '70; Eugene D. Jackson, '67; David B. Price, Jr., '68; and Louis W. Smith, '66.

Many of the concerns, frustrations and inequities experienced by UMR's African-American alumni were rehashed that day. Staff members undoubtedly were impressed with the sincerity and candor of the alumni, and by Lawrence George's desire to fully integrate African-American alumni and students into the university community. The key elements of this initial encounter were conveyed to Park, who in turn reported these activities to Martin C. Jischke when he accepted the position as chancellor of UMR in 1985.

Shortly after his arrival at UMR, Jischke arranged a meeting with George to discuss the concerns of UMR's African-American alumni. Following this meeting, the UMR Advisory Committee of African-American Recruitment and Retention was expanded to include a broad range of alumni, to gain a greater perspective of campus life and alumni involvement. Jischke solicited suggestions for committee members

from George as well as from UMR staff members, including Floyd Harris, '74, director of the Minority Engineering Program. Those alumni appointed to the committee at that time were Lawrence C. George, chairman; Larry E. Goodwin, '71; Wayne C. Harvey, '69; Robert F. Henry, '79; Eugene D. Jackson, '67; Natalie J. Jackson, '81; Gregory D. McClain, '72; Charles B. McField, '80; Roscoe R. McWilliams, '72; Robert R. Morrison, '71; Zebulun Nash, '72; Veo Peoples, '70; David B. Price, '68; Gregory D. Skannal, '85; Louis W. Smith, '66; Melanie A. Tindley, '85; Sheila G. Williams, '85; and Joseph Williams, '89 (student representative).

The current committee consists of Ernest K. Banks, '81; Oscar C. Berryman, '81; Norma Compton Curby, '72; chairman George; Goodwin; Harvey; Henry; Benjamin Hudson, '71; Natalie Jackson; Fred S. Marshall, '77; McClain; McWilliams; Morrison; Nash; Reginald K. Owens, '70; Price; Jada Jenkins Reese, '84; Skannal; Sheila Williams; and student representatives Kenneth E. Rice and Rakiyah Mason. The other student representative, whose two-year term ended on June 30, 1990, was Tyrone Johnson.

In February, 1987, a committee meeting was held. The only committee members to attend this meeting, in a snow storm, were Harvey, George, Goodwin, McClain, and Nash. Also in attendance were Jischke, Harris and Don Brackhahn. Disappointment about the decline in climate and receptivity to African-American students and the less-than-aggressive posture of the MEP program were aired. Jischke was made aware of the deep feelings of omission and neglect that the African-American student body and alumni experienced prior to his arrival.

At this meeting, Harvey, Goodwin, McClain and Nash requested that the chancellor make the faculty and staff aware that he would not tolerate an inequitable environment for African-Americans or any other students. The four requested that individuals who fostered bigotry or racism not be rewarded nor retained. They also said if visible and real evidence of changes were apparent, they would pledge to give their full support to UMR and its programs.

At the October 1988 committee meeting, it became evident that Harvey, George, Nash, Goodwin and McClain had seen sufficient improvements to warrant their raising in excess of \$10,000 in less than six weeks to endow the Martin Luther King, Jr. Scholarship Fund. This fund has grown to more than \$100,000 in four years, primarily through the contributions of African-American alumni, the matching gifts of their employers, and the commitment and leadership of George and Nash.

Several companies deserve recognition for the unselfish gifts of their employees. These companies include Exxon, Amoco Oil, John Deere, ITT Teves, Owens Engineering and Manufacturing, Fluor Daniel Inc., Allied Signal-Bendix, Procter & Gamble, McDonnell Douglas, Anheuser-Busch, Ford Motor Company, Monsanto Chemical Company, Distron, Ex-Cell-O Corporation, J.M. Products, Wings & Things, General Dynamics, Boeing, Reynolds Metal Company, Lever Brothers, Menco Electronic Materials, Honeywell Corporation, IIS Inc., General Motors and Centor Energy Corporation.



*Photo caption: Members of the UMR Advisory Committee for African-American Recruitment and Retention, at the February 1991 meeting. Left to right, Jada Jenkins Reese, '84, and Natalie Jackson, '81, are in front, with Gregory McClain, '72; Reginald Owens, '70; Ben Hudson, '71; Robert Morrison, '71; Gregory Skannal, '85; Ernest Banks, '81; and Larry Goodwin, '71, behind them.*

# CASTLEMAN HALL DEDICATION

*On a crisp autumn day, Castleman Hall was dedicated as the university's home for the performing arts center, music and drama departments and Advancement and Alumni Affairs offices.*

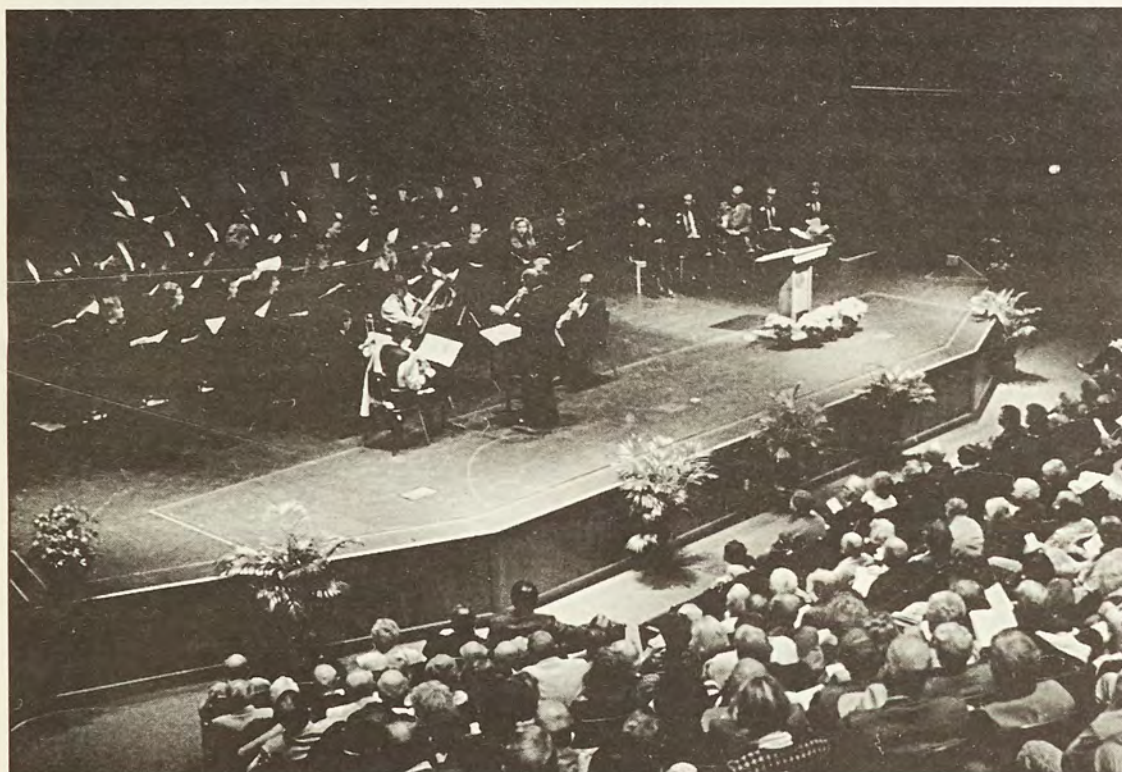
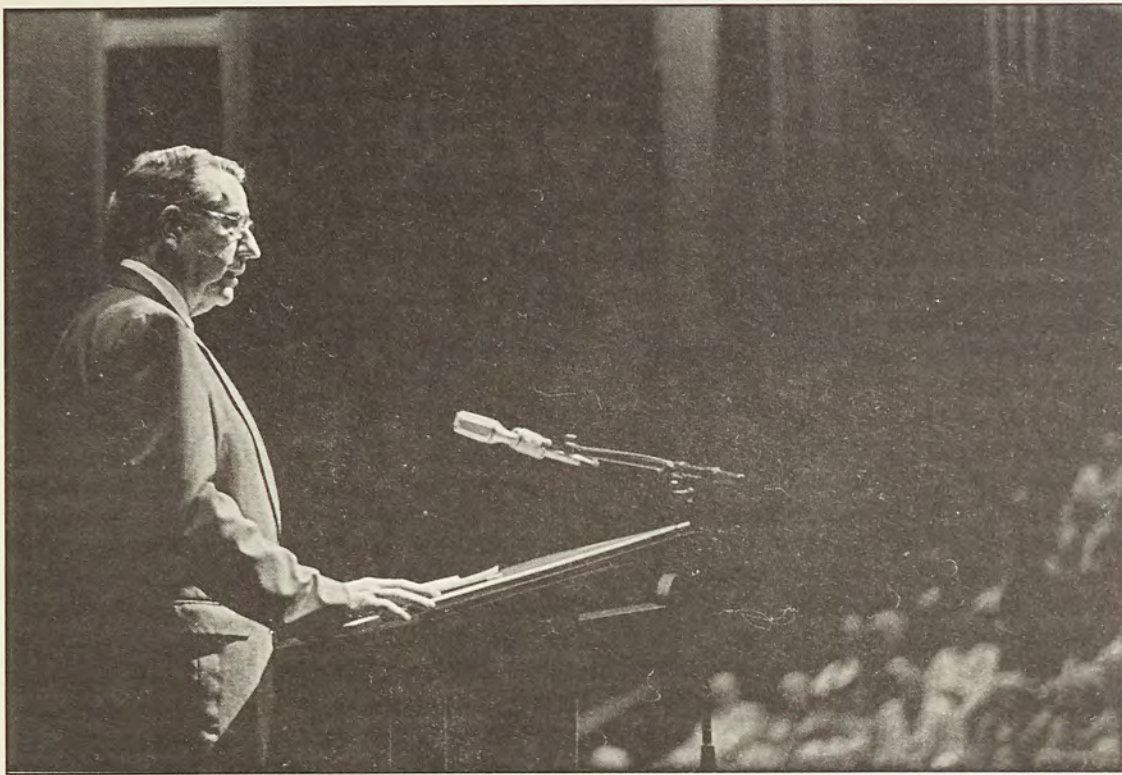
*The Oct. 5 dedication featured performances by the UMR Symphonic Band and the UMR University Choir, followed by presentations by Interim Chancellor John T. Park; Donald L. Castleman, the Rolla banker who contributed \$500,000 to the building of Castleman Hall; James R. "Bob" Patterson, president of the MSM-UMR Alumni Association; Tom and Chris Sowers, Rolla area residents who led a committee to raise funds for the building, and Luke Peterson, president of UMR's Student Council.*

*The building features a 660-seat theater where the Bolshoi Ballet performed for "premier patrons" on Sept. 21.*

Top: Donald Castleman speaking at the dedication ceremony.

Middle: The UMR Orchestra performing at the dedication.

Bottom: Dancers from the Bolshoi Ballet performing at the premier patron gala Sept. 21.



# CAMPUS NEWS

## UMR Withdraws Recognition of St. Pat's Board Following Incident

Following an investigation of the Oct. 21 death of UMR student Michael Nisbet in an alcohol-related incident, campus officials have withdrawn official recognition of the St. Pat's Board, effective immediately. Interim Chancellor John T. Park announced the actions at a press briefing held on campus.

Investigation of the incident was handled by the Rolla Police Department and the University Police, working with campus officials. Nisbet, 28, of Vinita Park, Mo., was a freshman engineering student and represented his residence hall on the St. Pat's Board.

Park said, "First, the results of this investigation indicate that the Alpha Iota Chapter of Sigma Pi fraternity was not connected with the activities preceding the death of Mr. Nisbet.

"Secondly, the investigation does indicate that the St. Pat's Board flagrantly violated the sanctions placed on the organization in 1988. We will not tolerate inappropriate behavior by individuals or organizations. Therefore, I have withdrawn, effective immediately, university recognition of the St. Pat's Board as a student organization. I have asked the Office of Students Affairs to initiate the campus disciplinary process to deal with those individuals who may have violated University regulations.

"Withdrawal of University recognition means the loss of all privileges extended to student organizations including the use of university facilities and use of the university's name, official symbol and official seal. Without University recognition, an organization cannot receive student activity funds provided through the UMR Student Council," Park said.

"I have asked the Student Council as the elected representatives of the student body to work with Dr. Wendell Ogrosky, vice chancellor for student affairs, to determine which activities associated with the St. Pat's tradition should be retained, and how they should be managed."

Park added, "Any St. Pat's activities held in the future must be consistent with the central education mission of this campus."

On behalf of the campus community, Park expressed sympathy and concern for the family of Michael Nisbet, indicating that the campus will continue to assist them in any way it can in this time of sorrow.

Park said, "The campus has confronted the issue of alcohol abuse for several years through its alcohol education program. Although substance abuse is a problem of society at large, UMR has and does accept responsibility for educating its community about the risks involved with the abuse of chemical substances."

In a related development, the following is a statement issued on Oct. 25 by Phelps County Prosecutor John D. Beger:

"The City of Rolla Police Department, in conjunc-

tion with the University of Missouri-Rolla Police Department, has completed its investigation into the circumstances surrounding the death of Michael W. Nisbet, a 28-year-old freshman at the University of Missouri-Rolla. Mr. Nisbet was found unconscious in the front yard of a house at 1608 Cedar Street, Saturday evening, being administered CPR by two students. He was taken by ambulance to the Phelps County Regional Medical Center and admitted. He was pronounced dead the afternoon of Monday, Oct. 21, 1991. The cause of death was listed as 'asphyxiation complicated by acute alcohol intoxication.' In layman's terms, Michael Nisbet drowned in his own vomit because he was extremely drunk.

"The investigation revealed Mr. Nisbet consumed large quantities of beer and tequila at the instigation, and under the supervision, of certain members of the 'St. Pat's Board,' a student organization sanctioned by the University of Missouri-Rolla to raise money for, and sponsor, the events celebrating St. Patrick's Day.

"The investigation indicates this alcohol consumption was a part of Mr. Nisbet's initiation to membership on the board which was to occur that night. Some of the consumption occurred at the Sigma Nu Fraternity and some at the Sigma Pi Fraternity. Neither of these fraternities are implicated by the investigation and I am convinced they are not involved in Mr. Nisbet's demise.

"Information received in the course of the investigation leads me to conclude Mr. Nisbet died as the result of an act of hazing, as that is defined by Missouri Statutes at Section 578.360. Hazing is a class A misdemeanor which carries a sentence up to a year in the County Jail or a \$1,000 fine.

"Based on this information, I have today filed a felony complaint charging Eric J. Boyer, 21, Steven S. Hunt, 22, and Kenneth W. Smiley, 26, with involuntary manslaughter, a class C felony, for the death of Michael W. Nisbet. The class C felony carries a range of punishment up to seven years in the Missouri Department of Corrections or a \$5,000 fine.

"Additional misdemeanor charges of hazing will be filed next week against individuals who were there and participated in this function. I have decided not to charge some individuals with hazing because they have fully cooperated in the investigation.

"The filing of these charges should not be seen as a campaign or vendetta by me or my office against the consumption of alcohol by responsible adults, whether or not they are students. However, I will not tolerate the practice of coercing people into consuming prodigious amounts of alcohol, or anything else, as a rite of passage or test of manhood in order to gain acceptance into any fraternity, club or student organization."

## Aerospace Engineering Students Place Second in National Contest

A team of UMR students in aerospace engineering recently won second place in a national undergraduate student competition for their top-flight design of a military aircraft.

UMR team members were Paul Vitt, group leader, from Washington; Terry Dunlap from Laddonia; Jackie Hackett from St. Louis; Howard Ho from Rolla; Sheila Nguyen from St. Louis; and Richard Stigall from Richmond.

The competition, sponsored by the American Institute of Aeronautics and Astronautics (AIAA) and General Dynamics Corp. of Fort Worth, Texas, was developed to be a preliminary design experience that is as realistic as possible in a university setting, according to team adviser Dr. H. Frederick Nelson, professor of aerospace engineering.

"For purposes of the competition, the sponsors submitted a Request for Proposal for a close support aircraft similar to what the Army or Air Force, for example, would submit to an aerospace company," says Nelson.

"The Request for Proposal asked the teams to design a close air support aircraft — a plane which flies close to front lines during combat," explains Nelson. "The plane is similar to the A-10 aircraft used by the Army during Desert Storm."

The students responded to the Request for Proposal in the same manner employees at an aerospace company would respond, Nelson says.

"They prepared a report which documented their preliminary design and included three-view drawings of the design along with information about assembling the aircraft, performance cost estimates, maintenance, manufacturability and a proposed staff," he says.

Paul Vitt, the team leader, who is now a UMR graduate student in aerospace engineering, adds that the report outlined information about the aircraft's anticipated performance.

"We included information about what makes the aircraft different and what we hope makes it better," says Vitt. "The major difference in our design was that we used an augmented lift system to shorten takeoff and landing distances."

Although UMR has won honorable mention in previous AIAA competitions, this is the first time a UMR team has placed in the top three, adds Nelson. Other competition winners were Virginia Polytechnic Institute and State University, California Polytechnic State University at San Luis Obispo and California State Polytechnic University at Pomona.

-MB

## UMR Researchers Study the Effects of Human Activities on Climate

It could be that we have been doing more than just talking about the weather, according to a UMR professor.

The role that human activities play in heating or cooling the Earth will be better understood once scientists know the chemical composition of the small particles in the atmosphere that take part in forming clouds, says Darryl Alofs, professor of mechanical engineering.

Alofs and co-workers at UMR's Cloud and Aerosol Science Laboratory are studying these particles called cloud condensation nuclei (CCN).

"CCN particles absorb water and start to grow," explains Alofs. "Cloud droplets result from water forming around these particles." Clouds, which are made up of water or ice, help to heat or cool the Earth depending on their elevation. High-altitude, cirrus clouds have a warming influence. Low-level, stratocumulus clouds have a global cooling effect.

"The impact that clouds have on the Earth's climate depends in part on the concentration of CCN," says Alofs. "If the concentration of these particles increases, calculations indicate that the result could be a global cooling that would compare in magnitude to any warming caused by the buildup of carbon dioxide in the Earth's atmosphere."

"A number of man's activities might generate CCN particles," he continues. "For example, sulphuric acid produced by burning coal and the nitrogen oxide condensation nuclei to form."

On the other hand, he says, some types of air pollutants would hinder the formation of CCN. "Oily substances could coat the particles, forming a barrier that makes it difficult for them to absorb water," says Alofs. "This would cause the particles to grow more slowly."

Previous research on the chemical composition of CCN has been limited because the particles are difficult to study. "It takes such a large amount of air to obtain samples," says Alofs. "In addition, other particles in the air are more massive and can overwhelm the CCN particles."

Equipment and methods for gathering the CCN particles were developed during the first phase of the 5-year study.

During the second phase, the researchers will install the equipment in a 40-foot trailer and begin field experiments. "We plan to gather samples at a variety of geographical areas including a southwestern Texas location, a mountain in New York state and in the state of Washington," says Alofs. "There is also an air sampling program for the city of Los Angeles in which we will probably participate."

Chemical analyses of the CCN particles will be performed under the direction of Allen Williams at the Illinois State Water Survey, which has the main contract. UMR researchers have a subcontract. The study is sponsored by the U.S. Department of Energy.

-MB

## Gutierrez Appointed to University of Missouri-Columbia Post

Ernie Gutierrez, '77, director of publications at UMR and editor of the MSM Alumnus for the past year, has been named assistant director of publications and alumni communications at the University of Missouri-Columbia effective in early November.

Gutierrez became director of publications at UMR in September 1990. He supervised production of all external UMR publications, including undergraduate and graduate catalogs and student recruitment brochures.

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

In addition, he has taught photography courses at UMR on a part-time basis since 1979 and was a lecturer in Spanish for one year.

Gutierrez obtained a bachelor's degree in English from UMR in 1977 while working for the university and has done graduate-level work in journalism at UMC. He has received or shared in a number of awards for photographic excellence and design and feature writing.

-MB

## George Appointed to UMR Post

Lawrence C. George has been named as the assistant to the chancellor for affirmative action.

George, who retired in November 1990 from the U.S. Department of the Interior, Bureau of Mines—Rolla Research Center, will direct UMR's affirmative action program. His duties include developing, implementing and maintaining an affirmative action plan for the Rolla Campus.

George comes to his post with affirmative action experience, having served as equal employment opportunity officer from 1967 to 1983 in addition to his regular duties with the Bureau of Mines.

George received a B.S. degree in chemistry from Dillard University, New Orleans, and has done graduate study at St. Louis University.

He is a member of Sigma Xi scientific research society and the American Chemical society. He has served as resident graduate advisor of Epsilon Psi chapter of Alpha Phi Alpha fraternity at UMR since it was founded in 1965. In addition, he is chairman of the UMR advisory Committee of African-American Recruitment and Retention, and a member of the Committee of Friends, the UM Alliance and the African-American Cultural Recognition Committee.



## UMR Receives Grant to Help Students Understand Engineering Structures

UMR students studying structural engineering now have the help of a computer facility to analyze how small-scale structural models react to various loadings, which in turn gives them a better understanding of real world engineering challenges.

The **AN**alytical and **EX**perimental Test Facility (ANEX) is a portable mini-laboratory that enables students to compare their analytical calculations with measurements they make during experiments using small-scale structural models. It was developed by Dr. Richard Behr, who came to UMR in 1990 from the University of New Hampshire, and John Kasper, a UNH graduate student.

"Computers are often used by engineers and university students to analyze complex civil engineering structures such as bridges and buildings," explains Behr. "However, students who are computer-oriented sometimes have difficulty understanding how an actual structure will respond under various loading conditions.

"The ANEX facility consists of an aluminum test stand, carefully constructed models, electronic sensors, various model and sensor supports, a personal computer with an analog-to-digital input board for sensor readings, a color monitor and a printer," he says.

Behr explains that the ANEX software provides students who have little prior knowledge of computers or structures with a step-by-step guide through the entire ANEX process and gives them on-line help. ANEX uses a commercially available structural analysis computer program to predict mathematically how it will react under various loading conditions," explains Behr. A series of software modules guides the user through the computer analysis and explain how to set up the experimental model and gather valid experimental measurements.

A student can place a scale model of a frame, for example, in the test stand and fit it with sensors which measure the response after weights have been placed on it.

"The computer then creates on-screen diagrams so that a student can see the computerized analytical and experimental results and compare them," says Behr. "At this stage, the user has a clear image of how well the computer analysis and experimental results correlated during the testing of the model."

He adds that the results will not always correlate well, which is an educational experience for the stu-

dent. "Trying to determine what went wrong helps students learn from their mistakes," he says.

"Use of ANEX can prevent a student from falling into the naive trap of becoming an unquestioning believer of using either computers or experimental methods to solve engineering problems," Behr continues.

In addition to the prototype ANEX facility at UMR, Behr recently received a National Science Foundation grant to build three more ANEX facilities at UMR. One ANEX facility will also be built at UNH. The UMR facilities, which are scheduled to be completed by this fall, will be used by students in the "Structural Analysis" class, a junior-level course required for civil engineering majors.

Dave Vollenweider, a UMR senior in civil engineering from Cassville, Mo., is supervising the construction of the three UMR facilities.

Vollenweider says that ANEX helps students visualize what is being taught. "Seeing what actually happens in the ANEX test bed and verifying structural engineering theory by using a computer to predict the results of a real experiment helps students learn and retain information," he continues.

"The ANEX computer program also helps students learn the program language that they will need in future courses and after graduation," says Vollenweider.

At the ANEX facilities, a teaching assistant is available to help students by providing suggestions for correcting errors.

"The next enhancement planned for the ANEX as a teaching assistant to help the student detect the cause of errors and correct the problem," he continues. Dr. Colin Benjamin, UMR associate professor of engineering management, and Azam Mirza, a master's candidate in engineering management at UMR, are working with Behr to develop this expert system.

"The expert system will not take the place of a teaching assistant," says Behr, "but it will provide the assistant with additional time to address the more complicated situations that students encounter."

Behr adds that students in the "Structural Analysis" course used the facility to design, build and test innovative scale-model balsa wood bridges in a semester-long class competition. Student response to the ANEX facility and the bridge competition was positive.

-MB

## Enrollment on Upswing at UMR

The picture for enrollment has brightened this fall at UMR, according to David J. Allen, of the UMR office of recruiting services.

"It may be on the upswing for several years," Allen says. "Since the early 1980's engineering enrollment on college campuses has declined nationwide. There is some indication that this decline may be turning around."

Allen says this change in direction may be due in part to an increase in science and engineering employment opportunities across the country.

"In any event," Allen says, "UMR is one of the few public institutions in Missouri to show an increase in enrollment this fall." Enrollment reached 5,007, the highest since 1987, when 5,081 students were enrolled at UMR. "Our new student enrollment for the start of the fall semester is up and the quality of the freshman class has improved," Allen says.

He added that the average test scores of incoming freshman students has continued to improve.

"About one-third of the freshman class qualify for the Higher Education Academic (Bright Flight) Scholarship Program," Allen says. "This is up significantly over past years."

Allen says the Bright Flight program provides scholarship awards in the amount of \$2,000 to eligible entering Missouri freshman students.

"We are pleased that enrollment is showing signs of improving," Allen says. "And we hope that it is a signal for better times ahead, especially for the areas of science and engineering."

-DH

## High Percentage of UMR Math Doctorates Granted to Women, Study Finds

UMR's doctoral program in mathematics is among the nation's best in granting degrees to women, according to a recent report from the American Mathematical Society.

The UMR program was tied for fourth in the nation in terms of the percentage of math doctorates awarded to women between 1981 and 1990, says the report, which appeared in the September issue of *Notices of the American Mathematical Society*.

The report was based on a survey of all mathematics programs in the United States that granted 10 or more Ph.D.'s between 1981 and 1990. UMR was ranked fourth, along with Adelphi University of Garden City, N.Y. At each campus, five of 13 math Ph.D.'s — 38.5 percent — went to women during that period.

Nationally, according to the AMS report, about 20 percent of mathematics doctorates are women.

William T. Ingram, chairman of the UMR mathematics and statistics department, says the ranking reflects the department's commitment to creating a supportive atmosphere for graduate students.

"We try to get the best students we can get, whether they are women or men, and we're trying to give them as much support as we can to help them become good mathematicians," Ingram says.

Troy L. Hicks, the UMR mathematics professor in charge of recruiting graduate students, says the department's doctoral candidates have teaching opportunities not available to students in larger mathematics programs.

"They get to teach a wider variety of courses here than they would at other places, and they get to teach at a higher level," Hicks says. "Plus, they get to know their professors better because of the smaller number of graduate students."

Alberta Harder, who received a doctoral degree in mathematics from UMR in 1987, agrees with Hicks' assessment.

"You get to know your professors well here," says Harder, who is a visiting assistant professor at UMR this fall. "You also get major responsibility as a graduate student. Every semester that I was a teaching assistant here I had my own class."

Small programs, according to the AMS report, fared better than the large programs in producing high percentages of women doctorates in mathematics. Illinois State University had the highest proportion of women doctorates between 1981 and 1990, with 54.5 percent (six women out of 11 Ph.D.'s), followed by the University of Oklahoma, where 41.7 percent (five of 12) of math Ph.D.'s were women. Memphis State University was third with 38.9 percent (seven of 18).

Since 1985, 14 of the 43 master's degree candidates in UMR's math department have been women. During the same period, women have constituted a majority of the undergraduate math majors at UMR, making up 57.6 percent of the undergraduate student body (34 of 59 bachelor's degree candidates).

This year, UMR's math department has 29 graduate students, including 16 women. Sixteen of the department's 34 undergraduate students are women.

-AC

## UMR Ranked as a Best Buy in "Money Guide"

UMR ranks 85th in the nation of the top 100 public and private colleges and universities offering the best education for the money, according to the 1992 edition of "Best College Buys," a special issue of "Money Guide."

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

"To be listed as one of the nation's finest universities is a wonderful recognition," says UMR Interim Chancellor John T. Park. "The University of Missouri-Rolla has an on-going commitment to its students to provide the best education possible and this recognition will enhance our efforts toward educational excellence."

The performance data includes 1) student/faculty ratio; 2) faculty strength; 3) library resources; 4) instructional and student service expenditures; 5) entrance examination results; 6) high school class rank; 7) student acceptance rate; 8) freshman retention rate; 9) graduation rate; 10) percentage of graduates who go on to earn graduate or professional degrees; 11) percentage of graduates who earn doctoral degrees; and 12) business success of graduates.

-DH

## Remmers Family Gives Steinway Piano to UMR Performing Arts Center

Walter E. and Miriam Remmers of St. James, Mo., have donated a new Steinway grand piano to UMR for use in the campus' performing arts center.

The gift was announced Friday, Oct. 25, prior to an 8 p.m. concert, the dedication performance for the piano, by classical pianist Leonard Pennario. The event was held in Leach Theatre of UMR's Castleman Hall, 10th and Main streets, as part of an annual concert and lecture series sponsored by the Remmerses.

Pennario selected the piano especially for Leach Theatre, the campus' 656-seat performing-arts facility in Castleman Hall, the university's newest building.

"This grand piano is a marvelous gift that will continue to delight audiences in Castleman Hall far into the future," UMR interim Chancellor John T. Park said in announcing the gift.

In 1977, Walter E. and Miriam Remmers established the Remmers Special Artist/Lecture Series at UMR to bring distinguished lecturers and performers to the campus. Past series presenters have included former President Gerald Ford, CBS News correspondent Charles Kuralt and Jeane Kirkpatrick, former U.S. ambassador to the United Nations.

-AC

## Formal Unveiling of Portrait of Mrs. V.H. McNutt

A formal unveiling of a portrait of Mrs. Vachel H. McNutt, which will be permanently displayed in McNutt Hall at UMR, was recently held in the commons area on the second floor of the building. The event was hosted by UMR's School of Mines and Metallurgy.

Mrs. McNutt, who died in 1983, was the widow of Vachel H. McNutt for whom UMR's mineral engineering building is named.

Vachel H. McNutt, a UMR alumnus and former geology instructor, was a pioneer economic geologist who discovered numerous oil and gas deposits and the first commercial deposits of potash in the Western Hemisphere.

V.H. McNutt received a B.S. degree in mining engineering (1910), an M.S. (1912), and an engineer of mines degree (1915) from UMR. While teaching geology at UMR, he developed the first course in petroleum geology taught in any institution west of the Allegheny Mountains.

During the last years of McNutt's life, when he was seriously ill, Mrs. McNutt took over much of the handling of McNutt's business operations and carried on this work after his death in 1936.

In 1961, Mrs. McNutt established the V.H. McNutt Foundation at UMR, naming the department of geology and geophysics as beneficiary. The income is used for the needs of the department with most of it

given to students in the form of scholarships. The V.H. McNutt Memorial Foundation contributed \$2 million in 1983 toward the construction of McNutt Hall.

In 1964, UMR awarded Mrs. McNutt the institution's first honorary doctor of humane letters degree.

-DH



Bill McNutt, Prof. Ray Morgan, and Beth McNutt

# GET INVOLVED: JOIN YOUR LOCAL ALUMNI SECTION!

Your alumni section program just keeps getting stronger! This fall, the alumni association's board of directors approved the charters of three new sections - the Alaska Section, the Colorado Section, and a new special-interest section, the Miner Music Section. These three join 26 other sections in providing programming for alumni around the country (see box).

Section events take many different forms - picnics, dinner meetings, sporting events, lectures, horse race parties, golf tournaments, and of course St. Pat's parties. The common thread running between all section events is the friendship and fun shared by the alumni who attend. These events offer an opportunity for alumni to renew old acquaintances and form new friendships with others who feel strongly about MSM-UMR, their alma mater.

This year saw the start of two new programs within the sections, the awarding of section scholarships and the presentation of an outstanding section award. Seven sections selected scholarship recipients who are now enrolled in their freshman year at UMR, and more sections have established scholarship committees in order to award grants in the 1992-93 school year.

This year's outstanding section award was presented to the Houston Section and the Ark-La-Tex Section. Oddly enough, this was one of the largest sections (Houston) and one of the smallest sections (Ark-La-Tex). This proved that small but active sections can be very effective within the structure of the alumni association.

Next year, a new award will be added to recognize alumni participation and service to the association. The Frank H. Mackaman Volunteer Service Award will be given to the alumnus who most exemplifies the spirit of volunteer service to the MSM-UMR Alumni Association.

At Homecoming this year, section leaders from around the country got together for breakfast on Saturday to discuss section programming. Those in attendance were Phil Browning, '48, and John Moscari, '51 (Ark-La-Tex); Harold Moe, '48 (Cincinnati/Dayton); Randy Kerns, '74 (Colorado); Curt Killinger, '73 (Houston); Lu Bolon, '59, and John Frerking, '87 (Kansas City); Bob Uthoff, '52 (Lincolnland); Todd Rush, '82, and John Eash, '79 (McDonnell-Douglas); Rene Leonard, '61 (Miami); Bob Perry, '49 (Pittsburgh); Bill Hallett, '55 (Tucson); Nicole Talbot, '77, Mahlon Haunschild, '83, and David Illert, '84 (Miner Music); Lindsay Bagnall, '76 (Central Ozarks); Gerry Stevenson; Cal Ochs; Neil Smith; and Don Brackhahn.

Discussion at breakfast centered around how the different sections operate. Each section leader was encouraged to share the things they feel their section does well, while asking for help from other sections on the aspects of their programming they would like to improve. Neil Smith, UMR's interim athletic director, spoke to the group about opportunities to hold events in conjunction with athletic events, and encouraged sections to support the Miners when they were in their area. Cal Ochs, the association's legislative committee chairman, talked about Proposition B, and urged Missouri section leaders to inform their membership of the importance of passing this bill to UMR.

If there is an alumni section in your area, why not attend the next event? It's a wonderful chance to learn more about UMR today as well as to enjoy the company of your fellow alumni. Want to know more about your local section? Just contact your local section leader (see box) - he or she will be delighted to hear from you and to have an opportunity to answer your questions.

Section/Area	Local Contact
ALASKA	Daniel R. Pickering '88 7401 Clairborne Cir. Anchorage AK 99502 Home: 907-248-5302 Work: 907-263-4252  John W. Hentges '89 13501 Ebbtide Cir. Anchorage, AK 99516-3468 Home: 907-345-1715
ARIZONA	Art Winter '63 353 W. Southern Hills Rd. Phoenix, AZ 85023 Home: 602-942-4152 Work: 602-436-1283  Walter Knecht '49 17207 Desert Glen Drive Sun City West, AZ 85375-5123 Home: 602-546-6672 Work: 304-747-4914
ARK-LA-TEX	Phil Browning '48 Rt 2, Box 300 Logansport, LA 71049 318-697-5248  John Moscari Jr. '51 503 Coleman Longview, TX 75602 903-753-7786
BAY AREA (California)	David Peacock '64 3515 Brunell Dr. Oakland, CA 94602 Home: 415-530-6728 Work: 415-842-0725  Jerry Littlefield, '58 1548 36th Ave. San Francisco, CA 94122 Home: 415-566-5275 Work: 415-768-4844
CENTRAL OZARKS (Mid-Missouri)	Jerry Bayless 2108 Vichy Rd. Rolla, MO 65401 Home: 314-364-4697 Work: 314-341-4151  Merrill Stevens '83 Rt. 2, Box 133 Newburg, MO 65550 Home: 314-762-3518 Work: 314-563-7209
CHICAGO	Robert J. Wilson '62 548 Rance Rd. Oswego, IL 65043 Home: 708-554-1461 Work: 708-496-4872  Robert Morrison '71 730 Raintree Naperville, IL 60540 Home: 708-355-4944
CINCINNATI/ DAYTON	Harold Moe '48 1819 Rosehill Rd. #11 Reynoldsburg, OH 43068 Home: 614-868-9628 Work: 614-837-1178  Russ Kamper '62 5674 Shadow Oaks Pl. Dayton, OH 45440 Home: 513-434-9177 Work: 513-226-8929

COLORADO	Randy G. Kerns '74 4797 Valhalla Dr. Boulder, CO 80301 Home: 303-530-7297 Work: 303-682-6484	John F. Eash '79 4622 Briargate Dr. St. Charles, MO 63303 Home: 314-928-0614 Work: 314-595-6931	TULSA	James E. Bertelsmeyer '66 3303 E. 100th Pl S Tulsa, OK 74137 Home: 918-299-2770 Work: 918-492-7272	
DALLAS	Bob Schafer '52 4426 Mill Creek Rd. Dallas, TX 75244 Home: 214-239-4784 Work: 214-754-8010	MIAMI	Rene Leonard '61 9030 Old Cutler Rd. Miami, FL 33156 Home: 305-665-5332 Work: 305-348-3015	TUCSON	Bill Hallett '55 P. O. Box 64216 Tucson, AZ 85740 602-529-2857
	Byron L. Keil, '52 4101 Clayton Road East Ft. Worth, TX 76116 Home: 817-731-1212		Ian Radin '69 6905 SW 64th St. Miami, FL 33143	WASHINGTON D.C.	Sam Sands '60 8337 Chapel Lake Ct. Annandale, VA 22003 Home: 703-978-5937 Work: 703-355-2465
GEORGIA	Connelly Sanders Jr. '53 431 Keeler Woods Dr. Marietta, GA 30064 Home: 404-426-4570 Work: 404-426-1844	MINER MUSIC	David S. Illert '84 1220 Meadow Knoll Manchester, MO 63021 Home: 314-256-6920 Work: 618-482-6516		Alok Berry '81 5626 Rapid Run Ct. Burke, VA 22015 Home: 703-425-1415 Work: 703-323-3016
HEARTLAND (S.E. Missouri, S. Illinois, W. Kentucky)	C. P. "Punch" Bennett '54 HCR 2, Box 188A Wappapello, MO 63966 Home: 314-222-8609 Work: 502-443-8244		Debra A. Hunke '90 5243 Ogilvie Ave. Paducah, KY 42001 Home: 502-554-0571 Work: 502-441-6381	STILL BEING DEVELOPED	
	Gene W. Edwards '53 159 Hillmont Dr. Paducah, KY 42001 Home: 502-554-2415	NEW ORLEANS	Paul Whetsell '61 3604 Lake Providence Dr. Harvey, LA 70058 Home: 504-361-7782 Work: 504-349-4234	ALABAMA	Don W. Jones '64 Campbell Engineering 3415 Stanwood Boulevard Huntsville, AL 35811 Work: 205-852-8720 Home: 205-539-2714
HOUSTON	Dan Hinkle '73 4019 Felicia Dr. Sugar Land, TX 77479 Home: 713-980-6229 Work: 713-552-3232 FAX: 713-552-4680		Tom Eyermann '72 P. O. Box 688 St. Rose, LA 70087 Home: 504-764-8088 Work: 504-734-4391	ALBUQUERQUE	Fred Dickey '64 11612 Brussels Ave. N.E. Albuquerque, NM 87111 Home: 505-275-0890 Work: 505-844-9660
	Kirk Lawson 13102 Fallsview Ln. #4802 Houston, TX 77077 Home: 713-589-2563 Work: 713-496-9600	PACIFIC NORTHWEST (Washington, Oregon)	Joseph G. Draper, '81 12352 36th Ave. NE Seattle, WA 98125 Home: 206-935-2555 Work: 206-237-7769	DETROIT, MI	Ron Schoenbach '70 29793 Harrow Drive Farmington Hills, MI 48331 Home: 313-661-2331 Work: 313-458-1009
KANSAS CITY	Willis J. Wilson '73 12300 E. 57th Terr. Kansas City, MO 64133 Home: 816-356-6889 Work: 816-822-3441	SAN DIEGO	Albert S. Keevil '43 1442 Yost Dr. San Diego, CA 92109 619-488-6072	GRADUATE EDUCATION CENTER, ST. LOUIS	Thomas S. Duncan '90 9444 Arban Dr. St. Louis, MO 63126 Home: 314-849-0898 Work: 314-425-3920
	John Frerking '87 426 West 11th Kansas City, MO 64105 Home: 816-221-4909 Work: 816-741-4000		Hank Fletcher '53 16695 Casero Rd. San Diego, CA 92128 Home: 619-565-1442	MONSANTO	Bob Barrett '69 Monsanto Chemical Co. Mail Zone G5NC 800 N. Lindbergh St. Louis, MO 63167 314-694-4087
LINCOLNLAND (Springfield, Ill.)	Tom Feger, '69 2201 Keokuk Springfield, IL 62702 Home: 217-522-5892 Work: 217-789-2260	SOUTHERN CA.	Scott Boyd '74 20545 Vendale Dr. Lakewood, CA 90715 Home: 213-402-7266 Work: 213-634-3311	PEORIA, IL	William A. Ellis '48 4624 N. California Peoria, IL 61614 Home: 309-688-7232
	Larry Lewis '73 2541 W. Greenbriar Dr. Springfield, IL 62704 Home: 217-787-8240 Work: 217-782-8995	SPRINGFIELD, MO	Joseph P. Wilson '86 1222 N. Hillcrest Springfield, MO 65802 Home: 417-866-4899 Work: 417-866-8644 FAX: 417-866-3035	PITTSBURGH	Robert C. Perry '49 302 Fox Chapel Rd. Apt. 500 Pittsburgh, PA 15238 Home: 412-782-3907
McDONNELL DOUGLAS	Todd Rush '82 McDonnell Douglas P. O. Box 516 Dept. 353 MC 281/2065 St. Louis, MO 63166 Work: 314-233-1979 Home: 314-230-8030	ST. LOUIS	Phil Jozwiak '66 1747 Staunton Ct. Creve Coeur, MO 63146 Home: 314-878-1285 Work: 314-421-1476		

# SECTION NEWS

## Alaska Section

The soon-to-be-official Alaska section of the MSM-UMR Alumni Association held an organizational meeting August 14, 1991. Seventeen alumni and three guests from the Greater Anchorage area attended the meeting, hosted by Barry, '81, and Kathy, '79, (Dill) Shelden, while many others unable to attend expressed an interest in alumni section activities.

The meeting agenda consisted of a brief address by Dr. P. Dale St.Gemme, Director of Development for UMR's School of Mines and Metallurgy, election of section officers and committee members, a drawing for door prizes, and officer photographs. Dan Pickering, '88, was elected to be the section's first president, while John Hentges, '89, will serve as president-elect and Keith St.Gemme, '91, as secretary/treasurer. Alumni elected to serve as committee chairpersons were the following: Mark Eck, '80, Scholarship; Matt Collins, '91, Activities; and Terry Palisch, '86, Membership. The meeting was followed by a period of social activities. A meeting of the section's executive council is planned for September 12, 1991, and the section hopes to be officially recognized in October 1991.

Those attending were: James L. "Von" Cawvey, '78; Matt Collins, '91; Albert DeValve, '43; T. Mark Drumm, '77; Mark E. Eck, '80; John Hentges, '89; Dale R. Merrell, '67; Carey S. Meyer, '76; Dan Pickering, '88; Sandy Polish, '86; Terry Polish, '86; Barry Shelden, '81; Kathy Shelden '79; Dale St. Gemme; Keith St. Gemme, '91; Doug Swenson, '83.

*Submitted by Keith St.Gemme, '91*

## Central Ozarks Section

The Central Ozarks Section of the MSM-UMR Alumni Association met with the Missouri Society of Professional Engineers on Saturday, August 31, 1991. Many in the group met at the UMR Miner football game in the afternoon, to cheer the Miners on to victory over Michigan Tech. The evening meeting featured the MSPE's annual "shrimp feed", a fund raising event that supports the scholarship program of MSPE. Approximately 185 guests enjoyed the delicious shrimp and accompaniments prepared and served by the MSPE cooks.

MSPE president Joe Minor introduced himself and Central Ozarks Section president Jerry Bayless, '59. Minor welcomed those in attendance and thanked them for their support of the scholarship program. He introduced the state president of MSPE and other officers and dignitaries of that organization, as well as some special guests. Several past recipients of the MSPE engineering scholarships were present and were recognized by Dr. Minor.

Jerry Bayless introduced alumni association executive director Don Brackhahn and his wife Nancy, section vice-president Merrill Stevens, '83, '88, and section secretary/treasurer Dixie Finley, '68. UMR football coaches Charlie Finley and Jim Anderson were also recognized, and were congratulated on the win over Michigan Tech earlier in the day.

Those in attendance include the following: Bill, '67, & Jamie Anderson; Jim & Pat Anderson; Eric Anderson; Ken, '36, & Erma Asher; R. Lee Aston, '50; George, '42, & Norma Axmacher; Kent, '76, & Lindsay, '76, Bagnall; Elmer & Dottie Bagnall; Dave & Kay Barr; Jerry, '59, Shirley Bayless; David Bayless, '87; Jennie Bayless, '89; Steve & Connie Beddoe; Randy Berry; Don & Nancy Brackhahn; Dan, '70, Betty, & Dale Canfield; John, '77, & Wendy, '75, Carter; Sumie Carter; Ta-Shen Chen; Tom & Debby



## Ark-La-Tex Section

Fourteen alumni and guests enjoyed dinner at the Barksdale Officers' Club in Bossier City, La., on August 31, 1991, at the Ark-La-Tex Section meeting. It was an enjoyable event with a good menu and good weather. John Livingston, '39, hosted the affair. John Moscari, '51, was elected as president for 1991-92, and

Phil Browning, '48, was elected secretary/treasurer. Basil Compton resigned as chairman of our scholarship committee because it conflicts with another office he holds, so John Livingston accepted the post.

The following members of the section attended this event: John, '39, and Eilyeen Livingston; Basil, '39, and Clydelle Compton; Elmond Claridge, '39; John, '51, and Loretta Moscari; Glenna Moscari Lawrence; Gerald, '28, and Leona Roberts; Walt, '34, and Helen Bruening; Phil, '48, and Ardella Browning.

*Submitted by Phil Browning, '48*

Coffman; Bill Collins, '50; Camille Consolvo; Wallace Craig; Del, '58, & Shirley Day; Chris Dikaman; Chad Dunnegan; Barb & Mike Durnin; Robert, '43, & Dorothy Eck; Dick Elgin, '74; Carl, '74, & Janet Eyberg; Mrs. W. P. Eyberg; Tom & Ruth Faucett; Janet, '81, & Julius Fraley; Lawrence George; Harvey & Ruth Grice; Steve Hargis, '85; June Harper; Kay & Burns Hegler; Love Henderson; Dan & Connie Jackson; Helen & Paul Jobe; Gary, '74, & Cathie John; Lucien M. Bolon Jr., '59; Dan Kennedy, '26; Bob, '37, & Sybil Lange; Ed & Loretta Loughridge; Bob & Mary Martin; Ruth & Barb Matthews; Doug & Marie Mattox; Dennis, '69, & Judy McGee; Jack, '83, & Lee Ann Mentink; Merrie Miller; Joe & Ann Minor; Don, '58, & Linda Modesitt; Darren & Rachel Morris; Bob & Jinnie Myers; Don Myers, '61; Jack Painter, '50; John T. Park; Jerry, '67, & Shirley Perkins; John, '47, & Sharyn Powell; Kevin Riggs; Whitney & Kittie Robertson; Elmer A. Roemer, '33; Steve Rosen; Hank, '56, & Pat Sauer; Don M. Sparlin; Vi Springer; Corky Stack, '76; Rick & Sharon, '71, Stephenson; Paul, '62, Mary, & Claire Stigall; Dave Summers; Brian, '76, & Connie Swenty; Armin Tucker, '40; Susan A. Wall; Pat & Don Warner; John & Ann Watson; Marilyn Westphal; Jerry Westphal; Greta Westphal; Julie Wiggins; Charlotte & John Wiggins, '70; John & Meg Wilson; Bob Ybarra; Wei Wen & Leslie Yu.

Submitted by Dixie Finley, '68

## Lincolnland Section

Thirty-four alumni, family and guests enjoyed a warm August Saturday afternoon at the home of Rich, '69, and Carolyn Berning. There was plenty of food even though Tom Feger, '69, burned some of the hot dogs (some people like them that way, don't they?). Rich provided boat rides as a respite to the August heat.

We were very pleased that Lorraine Burns, our section's 1991 scholarship recipient, and her parents Doug and Vicky Burns, were able to join us. We restrained ourselves from telling too many stories of our days in Rolla, and we wished her success as she enters the university.

Among those in attendance were the following: Tom Feger, '69; Dan Kerns, '74, '79; Larry Lewis, '73; Kevin Riechers, '85; Bob Uthoff, '52; Jim Miles, '84; Ed Midden, '69; Lynn Frasco, '68; Lorraine Burns, '95; Doug and Vicky Burns; Rich, '69, and Carolyn Berning; Casey Taylor.

Submitted by Tom Feger, '69

## Colorado Section

MSM-UMR alumni, friends and family gathered for a summer picnic at Cherry Creek Reservoir in Denver on August 31, 1991. Gene Lindsey and Ray Chico set up the event, which was held during the Labor Day weekend. Guests in attendance included the following: Jack, '59, Pam, Amy, Jenny and Natalie Lutz; Hank, '71, Irene and Chris Sandhaus; Elaine, '78, (Christian), Bob and Nathan Balliew; Randy, '74, Cherie, Amy and Allyson Kerns; Charlie, '73, Marti, Leah, and Matt Schroeder; Joe, '52, and Shirley Geers; Jim, '72, and Jackie Honefenger; Keith, '78, and Kate Bockelman; Jerry Plunkett, '53, and wife and guests; Gene, '51, and Mary Lee Lindsey.

Hank and Irene Sandhaus have volunteered to host the next get-together in October 1991 for an hors d'oeuvre and dessert potluck.

(Top photo, left to right: ) Cherie, Amy, Allyson and Randy Kerns, '74; Jackie and Jim Honefenger, '72.

Bottom photo: Chris, Irene and Hank Sandhaus, '71.



## Chicago Section Send-Off Picnic

There were 60 people in attendance at the Chicago Send-Off Picnic for incoming UMR freshmen, held at the home of Bob, '62, and Julia Wilson in Oswego, Ill., on August 3, 1991. Those attending were as follows: Carl Berkelman, '95; Mike Casedy, '95; Brian Dudkowski, '95; Shannon Knudson, '95; Curtis Smith, '95; Rebecca Wakely, '95; Eric Gilstrap, '92; Paul Sakowicz, '92; Jeff Schramm, '92; Kathy, '79, and Erik Anderson; William M., '72, and David Black; Fred Fass, '81; Deirk, '85, and Maria, '85, Feiner; Lean Anne Howell, '81; Tim, '85, and Marla, '87, Jedlicka; Neil A. Martin, '89; Bob, '71, and Liz Morrison; Dick Phelps, '68, and Paul Phelps; Bob, '61, and Linda Saxer; Richard, '59, and Jane Wiker; Bob, '62, and Julia, Kathie and Annette Wilson; Carl and Peggy Berkelman; Gary and Karen Casedy; Kris Davitz; Larry and Irene Dudkowski; Janice Getz; Joe and Carol Knudson; Bob and Jackie Smith; Beth and Jim Wakely; Don and Nancy Brackhahn; John and Dorcas Park.

The incoming freshmen were welcomed to the UMR family by John Park and Don Brackhahn from campus, as well as by current students and alumni.



## Kansas City Section

The Kansas City Section of the MSM-UMR Alumni Association held its annual picnic at Longview Lake on Sunday, August 25. The alumni in attendance ranged from Ben Stephenson, a graduate of the class of 1953, to Val Sauer, a graduate from the class of 1991. The organizing group was pleased to see lots of familiar faces and so many new young faces. The following alumni and friends attended: Willis, '73, and Nancy Wilson; Nancey Drissel, '72; Bob, '83, and Bev, '84, Sauer and family; Lu, '59, and Sammy Bolon; Debbie Sauer, '88; Mike Wilson, '79; Dan Wiltshire, '90; Bobby Crawford, '89; Paul Leake, '84; Russ Hanna, '84, '88; Robert Stitt, '85; Kathy Sauer, '87; Chris, '73, and Marsha Wilson; Cliff, '57, and Bettie Tanquary; Martin, '65, and Irene Goldstein, Kathy, '76, David, and Zachary Becker; Denise Draheim, '87; Greg Vetter, '87; Kim, '83, '89, and Dave, '83, Williams.

Tasty hamburgers, hot dogs and polish sausage were cooked up on the grill. Everyone brought a side dish and a UMR tale to tell, so there was plenty of table talk. It was a hot and humid afternoon, so the group broke up around 3 p.m. to return to the comforts of air conditioners and recliners.

The fall activity planned is a road trip to Topeka, Kan., to watch UMR take on Washburn University's football team on Oct. 26. A meeting spot will be designated for tailgating and carpooling from KC to Topeka. Watch your mailboxes for further information.

*Submitted by Kim Hofstetter Williams, '83, '89*

## Pittsburgh Area Alumni

Pittsburgh area alumni gathered on Thursday, Aug. 15, 1991, for a dinner and a Pittsburgh Pirate baseball game. The group met at the Allegheny Club in Three Rivers Stadium for cocktails and a buffet supper, and then enjoyed the Pirates vs. the Phillies.

Those in attendance were as follows: Dave, '51, and Audrey Glenn; Bill Vose, '51; Neal, '59, and Arla Lawson; John, '64 and Janet Banks; Tom, '39, and Agnes Finley; Elmer, '40, and Dorothy Trautwein; Jim, '62, and Mary Beth Yost; Jim Carr, '40; Bob, '49, and Betty Perry and family; Don and Nancy Brackhahn.

We have 164 MSM-UMR graduates in this area, including 10 in West Virginia. These range from class of '33 to the class of '90. Surely we can schedule one or two events a year that will interest many of you and give you the opportunity to meet these many area graduates. Please send me any suggestions you have for future events - and thanks for your support.

*Submitted by Bob Perry, '49*

## Student/Alumni Homecoming Golf Tournament at Homecoming

Friday, Oct. 4, 1991, saw 36 alumni, students, parents and friends competing in the Student/Alumni Homecoming Golf Tournament sponsored by the Student Union Board. First place was won by Chris Rook, a student, and his partner Merle Dillow, '80. Dusty Rhodes, '41, and his partner Dale Leidy, '61, captured second place. A three-way tie for third place necessitated not one play-off but two, as the players were still tied after the first play-off hole. Nick Barrack, '75, and his brother Dan Barrack, a student, eventually took third place, after being tied with Bob Oetting, '55, and Joe Sauer, a student; Don Schrader, '51, and his wife Wanda Schrader; and Chris Blair, a student, and Phil Blair, his father.

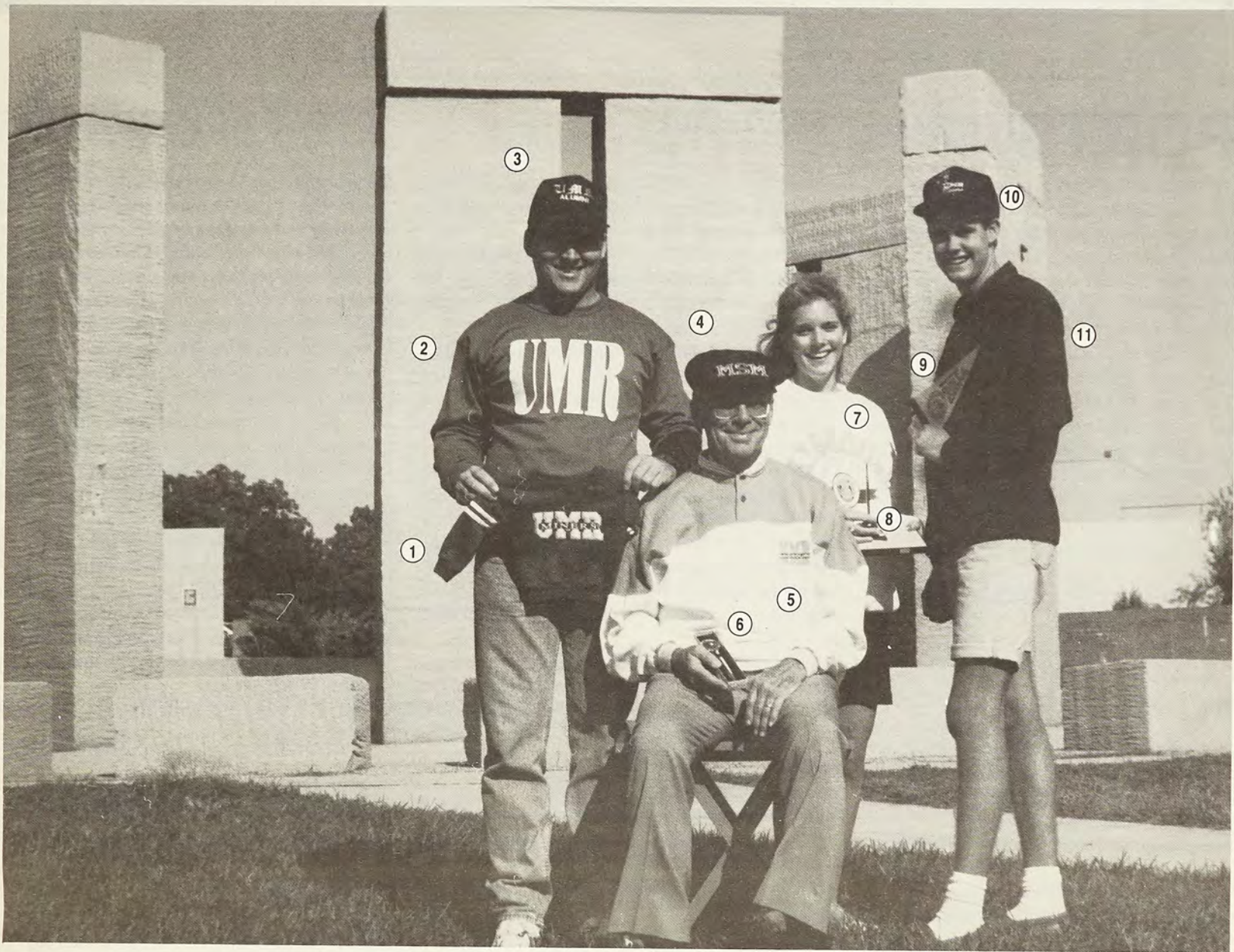
Those who played are as follows: Bob Oetting, '55, and Joe Sauer (student); Nicole Talbot, '77, and

David Illert, '84; Dennis McGee, '69, and Ross McGee (student); Chris Blair (student) and Phil Blair (parent); Donald, '51, and Wanda Schrader; Don, '51, and Kathy Dowling; Mike Vanek, '88, and Greg Rokos, '88; Nick Barrack, '75, and Dan Barrack (student); Gerald, '51, and Mary Jo Keller; Joe, '51, and Nancy Perryman; W.J. Williams, '58, and Jack Sweeney, '58; Jon Cable, '69; Dusty Rhodes, '41, and Dale Leidy, '61; Myrl Line, '49, and Hulon McDaniel, '51; Bill Vose, '51, and Dick Zumsteg, '51; Erv Dunn, '51, and Rich Huntebrinker (student).

All the participants reported they had a great time, and the Student Union Board would like to thank all those who came out and played for showing true camaraderie between alumni, students and friends!

## COMING SECTION EVENTS

Dec. 5	NW Mining Conv. Alumni Breakfast, Seattle, WA	John Baz-Dresch '73, 509-663-7313 (B)
Dec. 7	Admissions Reception, St. Charles, IL	Lynn Stichnote, 1-800-522-0938
Dec. 8	Admissions Reception, AMOCO, Chicago	Lynn Stichnote, 1-800-522-0938
Dec. 12	Alaska Section, Christmas Party, Anchorage	Matt Collins '91, 907-263-4605 (B)
Jan. 4	Admissions Reception, St. Louis (County)	Lynn Stichnote, 1-800-522-0938
Jan. 4	Arizona Section Meeting, Phoenix, AZ	Alumni Office, 314-341-4145
Jan. 5	Admissions Reception, SW Bell, St. Louis	Lynn Stichnote, 1-800-522-0938
Jan. 18	Ark-La-Tex Section	Phil Browning '48, 318-697-5248
Jan. 28	Legislative Recognition Day, Columbia, MO	Alumni Office, 314-341-4145
Feb. 3-19	South Pacific Cruise, Australia-New Zealand	Alumni Office, 314-341-4145
Feb. 9-23	Wings Over Kenya Air Safari, Africa	Alumni Office, 314-341-4145
Feb. 22	African American Committee Meeting, Rolla	Alumni Office, 314-341-4145
Feb. 24	SME Alumni Reception, Phoenix, AZ	Alumni Office, 314-341-4145
Mar. 14	Houston Section St. Pat's, Houston, TX	Dan Hinkle '73, 713-629-6600 (B)
Mar. 15	San Diego Section St. Pat's, San Diego, CA	Al Keevil '43, 619-488-6072 (H)
Apr. 4	Spring Alumni Board Meeting, Rolla, MO	Alumni Office, 314-341-4145
Apr. 18	Ark-La-Tex Section	Phil Browning '48, 318-697-5248
Apr. 22	McDonnell Douglas Section, St. Louis, MO	Todd Rush '82, 314-233-1979 (B)
May 14-16	50-Year Reunion/Commencement, Rolla, MO	Alumni Office, 314-341-4145



- |   |  |   |
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| 1. Childs Sweat Shirt .....\$13.98<br>(18 month, 2-4-6-8) | 6. Colored UMR Seal on Boxed<br>Letter Opener .....\$12.98               | 10. UMR with Miner Cap .....\$10.98                               |
| 2. Long Sleeve Tee in Azure Blue .....\$19.98             | 7. Sweatshirt with Seal .....\$19.98                                     | 11. Zip Front Jacket—Light Lining .....\$59.95<br>(Black or Navy) |
| 3. UMR Alumni Cap .....\$10.98                            | 8. Cross Desk Pen with University Emblem<br>on Stand, boxed .....\$47.98 | Heavy Lining .....\$85.00<br>(Black & Gray or Teal & Navy)        |
| 4. MSM Emblem Cap .....\$11.98                            | 9. Small Pennant .....\$1.29   |   |
| 5. Gear, Gray & Teal Sweatshirt w/placket ..\$38.98       |  |   |
|   |  | Limited Supply  |
| UMR Coffee Cups .....\$4.99                               | Not pictured:<br>Large Steins .....\$17.98                               | Stonehenge Posters .....\$2.00                                    |

## UMR Bookstore

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\$10.01 to \$20.00	\$2.75
\$20.01 to \$30.00	\$3.00
\$30.01 to \$40.00	\$4.00
40.01 and up	\$5.00

### AMOUNT ORDERED

Add sales tax for shipments  
to Mo. 6.25

Shipping & Handling Charge

**GRAND TOTAL**



## SPORTS

## FOOTBALL

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## EIGHT SELECTED TO MSM-UMR ATHLETIC HALL OF FAME CLASS OF 1991

The University of Missouri-Rolla has selected eight former student-athletes for induction into the MSM-UMR Athletic Hall of Fame for 1991.

The Class of '91 includes student-athletes from five different decades, with graduation dates from 1934 through 1975. In order to be eligible for the Hall of Fame, one must be a graduate, former letter winner and have concluded his athletic career at the University for at least 15 years.

The following are the 1991 inductees to the MSM-UMR Hall of Fame:

**Keith Bailey (BSME, 1964)**—Bailey played football and basketball for the Miners, earning four letters in each sport between 1960 and 1964. On the gridiron he played both offensive and defensive tackle for the football squads in a platoon system, although most of his playing time was on the offensive side. Bailey currently lives in Tulsa, Okla.

**Marvin Breuer (BSCE, 1935)**—Breuer earned one letter competing for the rifle team, but had greater accomplishments in baseball where he reached the major league level. The Rolla native pitched for five seasons and in two World Series for the New York Yankees. He was also the winning pitcher in the sixth game of the 1938 Junior World Series for a Kansas City team that won the championship. Breuer will be inducted posthumously.

**LeCompte Joslin (BSME, 1934)**—Joslin was a four-year letterman on the basketball court, and was also the captain of the 1934 Miner team. He was one of the first stars in the history of the program, and also participated in intramural basketball at UMR. Joslin currently resides in Rolla.

**Marvin E. "Bob" Nevins (BS MetE, 1941)**—Nevins was a two-way standout on the football field, where he earned four letters at MSM. He lettered in

football from 1937-40, as he played both offensive and defensive end, and caught a touchdown pass during his first game in a Miner uniform. He also earned a letter in basketball in 1937. Nevins lives in Wauwatosa, Wis.

**Tommy Noel (BS EMgt, 1975)**—Noel was one of the top basketball players in the history of the school. He is currently the ninth leading scorer in school history with 1,150 points and the fourth leading rebounder with 838. He is also among the leaders in six other statistical categories, including averages of 15 points and 12 rebounds per game as a senior. He was a second-team All-MIAA pick that season. Noel currently resides in St. Louis, Mo.

**Art Schmidt (BS ChE, 1950)**—Schmidt was a four-year letterman in football and also earned a letter in basketball. On the gridiron, he was an All-MIAA selection in 1949 as a quarterback and set a school record for the longest completed pass (now broken) in a game. He played on MIAA championship teams in 1947 and 1949. Schmidt currently lives in Lake St. Louis, Mo.

**William Wheeler (BSEE, 1960)**—Wheeler was an outstanding football player for the Miners in the late 1950's, when he was twice named to the All-MIAA team and earned honorable mention Little All-America honors. He won three letters at the quarterback position and also won a letter in basketball. Wheeler currently lives in Harrison, Ark.

**John Williams (BA Psyc, 1973)**—Williams had a standout two-year career on the basketball court for the Miners. He ended up as one of the top scorers in school history with 850 points and owns the fifth highest career average as he scored 18.5 points a game. He is also among the rebound leaders with 484. Williams currently resides in Gary, Ind.

## ROBERTS TO HEAD WOMEN'S BASKETBALL POST

Linda Roberts, most recently an assistant coach at St. Cloud State University and the former head coach at Valley City State University, has been selected as the new women's basketball coach at the University of Missouri-Rolla.

Roberts is replacing Mary Orteelee, who resigned in June to accept the women's basketball post at the University of North Florida.

"I am excited about coming to the University of Missouri-Rolla, and the chance to be a coach at the NCAA Division II level," Roberts said. "UMR has shown that it can be competitive in women's basketball, and I hope to continue the fine program Mary has built and hopefully take it a little higher."

Although Roberts admits that she is somewhat unfamiliar at this time with UMR's players and the highly competitive MIAA, she hopes to gain a quick grasp of that knowledge. The conference she just left, the North Central Conference, was the home of last year's national champion, North Dakota State University.

"My style has been to evaluate the talent, and then put the players in positions where they can be successful," she said. "I believe that if the players are successful, then the team will be as well."

A native of Gifford, Ill., Roberts attended the University of Illinois and earned her bachelor's and master's degrees from the school. She was a three-year starter at guard on the women's basketball team.

Roberts has spent the last year working as the first assistant coach and administrative assistant at St. Cloud State. Prior to that, she spent 12 years as the head coach at Valley City, an NAIA school in Valley City, N.D.

Away from the basketball court, Roberts has been involved in softball and numerous collegiate committee activities. She also served a dual role as the women's basketball and softball coach at Valley City, posting a 164-110 softball record in 12 years. She was named district "Coach of the Year" five times and led the 1982 team to a seventh place finish at the NAIA national tournament.

She has also been on NAIA softball committees and has served as president, vice president and secretary/treasurer for the Women's Athletic Conference of North Dakota.

"I was extremely pleased with the pool of applicants, and Coach Roberts was the unanimous choice of those involved in the search process," said UMR interim athletic director Neil Smith. "Her maturity and on-court coaching experience will allow her to step in immediately and continue the success of the program. She brings enthusiasm and a personality which should relate favorably with our student-athletes, campus and the community."

### MEN'S BASKETBALL SCHEDULE

DATE	OPPONENT	TIME	SITE
Nov. 22	Grand Valley State (1)	8:30	Owensboro, KY
Nov. 23	Kentucky Wesleyan or Oakland (1)	TBA	Owensboro, KY
Nov. 29	Culver-Stockton (2)	6:00	Columbia
Nov. 30	Benedictine (2)	1:00	Columbia
Dec. 2	Kansas State	7:30	Manhattan, KS
Dec. 7	Arkansas College	8:00	Rolla
Dec. 11	Webster University	8:00	Rolla
Jan. 3	Grand Canyon University (3)	TBA	Phoenix, AZ
Jan. 3-4	Eastern New Mexico or SIU Edwardsville (3)	TBA	Phoenix, AZ
Jan. 9	Southwest Baptist *	8:00	Bolivar
Jan. 11	Missouri Western *	8:00	St. Joseph
Jan. 15	Missouri-St. Louis *	8:00	St. Louis
Jan. 18	Central Missouri State *	8:00	Rolla
Jan. 22	Missouri Southern *	8:00	Rolla
Jan. 25	Pittsburg State *	8:00	Pittsburg, KS
Jan. 29	Southwest Baptist *	8:00	Rolla
Feb. 1	Lincoln *	8:00	Jefferson City
Feb. 5	Missouri-St. Louis *	8:00	Rolla
Feb. 8	Washburn *	8:00	Topeka, KS
Feb. 12	Missouri Southern *	8:00	Joplin
Feb. 15	Pittsburg State *	8:00	Rolla
Feb. 19	Lincoln *	8:00	Rolla
Feb. 22	Northwest Missouri State *	8:00	Rolla
Feb. 26	Emporia State *	8:00	Emporia, KS
Feb. 29	Northeast Missouri State *	8:00	Rolla
Mar. 3-7	MIAA Tournament		

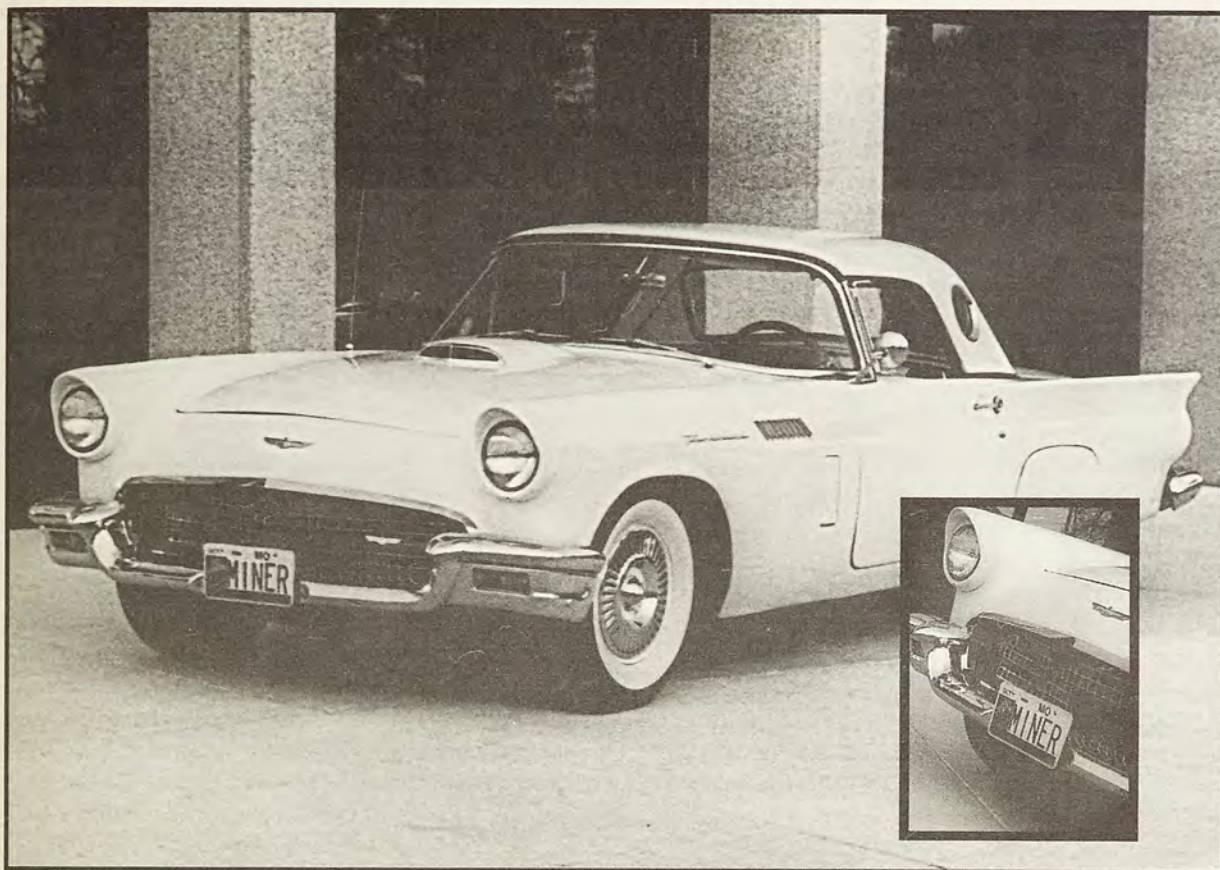
\* Denotes MIAA Conference Game

\*\* Schedule does not include exhibition games against Phillips 66 AAU on Nov. 17 (2:00) or Team Reebok on Dec. 14 (8:00)

(1) Kentucky Wesleyan Tip-Off Tournament, Owensboro, KY

(2) Hall of Fame Classic, Columbia

(3) Lopes Invitational, Phoenix, AZ



## UMR LICENSE PLATE AVAILABLE NOW!

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

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

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

Wayne Bales generously provided the 1957 Thunderbird to be used in this photo. Wayne is the owner of Route 66 Motors of Rolla.

Yes, I want to display the UMR license plate!

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

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

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

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

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

Mail this form with your check payable to "University of Missouri-Rolla" to the Alumni Office, Castleman Hall, UMR Rolla, MO 65401-0249

### WOMEN'S BASKETBALL SCHEDULE

DATE	OPPONENT	TIME	SITE
Nov. 23	Murray State	7:00	Murray, KY
Nov. 29	Angelo State (1)	6:00	Abilene, TX
Nov. 30	Abilene Christian (1)	8:00	Abilene, TX
Dec. 3	William Jewell	6:00	Rolla
Dec. 5	SIU-Edwardsville	6:00	Rolla
Dec. 7	Indianapolis	3:00	Rolla
Dec. 13-14	SBU/Mary Kay Classic	TBA	Bolivar
Jan. 3	(UMR, SBU, Texas Women's Univ., Arkansas College)		
Jan. 9	Arkansas College)		
Jan. 11	Angelo State	7:00	Rolla
Jan. 15	Southwest Baptist *	6:00	Bolivar
Jan. 18	Missouri Western *	6:00	St. Joseph
Jan. 22	Missouri-St. Louis *	6:00	St. Louis
Jan. 25	Central Missouri State *	6:00	Rolla
Jan. 29	Missouri Southern *	6:00	Rolla
Feb. 1	Pittsburg State *	6:00	Pittsburg, KS
Feb. 3	Southwest Baptist *	6:00	Rolla
Feb. 5	Lincoln *	6:00	Jefferson City
Feb. 8	Emporia State *	6:00	Emporia, KS
Feb. 12	Missouri- St. Louis *	6:00	Rolla
Feb. 15	Washburn *	6:00	Topeka, KS
Feb. 19	Missouri Southern *	6:00	Joplin
Feb. 22	Pittsburg State *	6:00	Rolla
Feb. 27	Lincoln *	6:00	Rolla
Feb. 29	Northwest Missouri State *	6:00	Rolla
Mar. 3-7	SIU-Edwardsville Northeast Missouri State *	5:30 6:00	Edwardsville, IL Rolla
	MIAA Tournament		

\* Denotes MIAA Conference Game  
(1) Abilene Christian Classic, Abilene, TX

### FREE ROLLAMO YEARBOOKS!

A number of Rollamo yearbooks have been made available to the Alumni Office to give away to any alumnus who would like one. We have numerous copies of the years 1971-1990, and limited copies of some years in the 1950s and 1960s. One of our alumni volunteers, John E. Smith, '50, has agreed to help us distribute these yearbooks to our alumni, so if you'd like one yearbook or several, please just mail \$5.00 per book (for postage and packaging) to John E. Smith, Alumni Office, Castleman Hall, UMR, Rolla, MO 65401. If John is not able to fill your request, he'll return your check and let you know; otherwise, you should receive the book or books you've requested within 4-6 weeks.

**YES!** Please send me the following yearbook(s): \_\_\_\_\_  
I've enclosed \$5.00 for each book ordered, to cover postage and packaging.

Send my order to:

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

WORK/HOME PHONE \_\_\_\_\_

Return this slip and your check to: John E. Smith, Alumni Office, Castleman Hall, UMR, Rolla, MO 65401.

# ALUMNI NOTES

## 1940 and before

### POLICY FOR PUBLICATION OF ALUMNI NOTES IN THE MSM ALUMNUS

- We are happy to announce weddings, births and promotions, after they have occurred.
- We will no longer mention spouse name unless it is specifically mentioned in the information provided by the alumnus.
- We will not print addresses unless specifically requested to do so by the alumnus submitting the note.
- We reserve the right to edit alumni notes to meet space requirements.

Thank you,

The Editorial Staff of the  
*MSM Alumnus*



**CLASS OF 1940 AND BEFORE, Row 1:** Methyl Bishop, Dorse Bishop, Lillian Heiss, Ed Heiss, George Fremont Heath, Frances Heath, G.R. Throgmorton, Audrey Rayburn, M.A. Gibson, Maxine Gibson, and Bill Morris. **Row 2:** Frank Appleyard, Paul Dowling, Eleanor Dowling, Charles Hunze, George Fort, Maxine Fort, Joel Loveridge, Mabel Rueff, Ed Rueff, Adrienne LeSuer, and E.W. Gieseke. **Row 3:** Vernon Asher, Mary Asher, Al Hesse, Emilie Hesse, John Pollak, Dorothy Pollak, Leona Roberts, Gerald Roberts, Maxine Sheppard, and John Sheppard. **Row 4:** Ken Asher, John Livingston, June Hall, Ralph Hall, Norman Tucker, Armin Tucker, Mel Nickel, Mary Lou Nickel, and Elmond Claridge

### CORRECTION:

In the article on Castleman Hall in the August 1991 issue of the Alumnus, we inadvertently reported that Marjory Hasselmann was deceased, which is not the case (we also misspelled her name). Our sincere apologies to Mrs. Hasselmann and her many friends for any inconvenience caused by this error.

### 1914

The alumni association has been informed that **Riley Marsh Simrall**, MinE, and a professional degree as engineer of mines from MSM in 1923, died Jan. 15, 1991. Riley, who attended William Jewell College prior to enrolling at UMR, was a member of Kappa Sigma, Tau Beta Pi, the Mining Association, on the Rollamo Board, president of the Student Union, Class President, and Chairman of St. Pat's Committee. After graduation, he was with the Portland Cement Association, Phillips-Carey Co., the U.S. Gypsum Co., Presstite Engineering Co. and Riley Simrall and Associates. He was retired at the time of his death.

### 1927

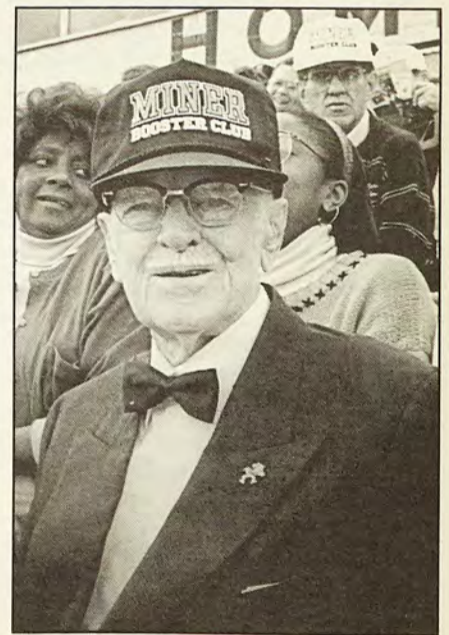
**Harry Franklin Bossert**, CE, and a professional degree in civil engineering from MSM in 1937, died Aug. 20, 1991. At MSM, Harry was a Prospector and a member of the Civil

Engineering Society. After graduation he was with the Illinois State Highway Department, AT&T, Soil Conservation and the Signal Corps. He was retired at the time of his death.

**Edwin R. Sievers**, MinE, wife, Dorothy, died June 24, 1991. Dorothy attended MSM in 1926-27 and graduated from Colorado College in 1928 with a degree in civil engineering.

### 1930

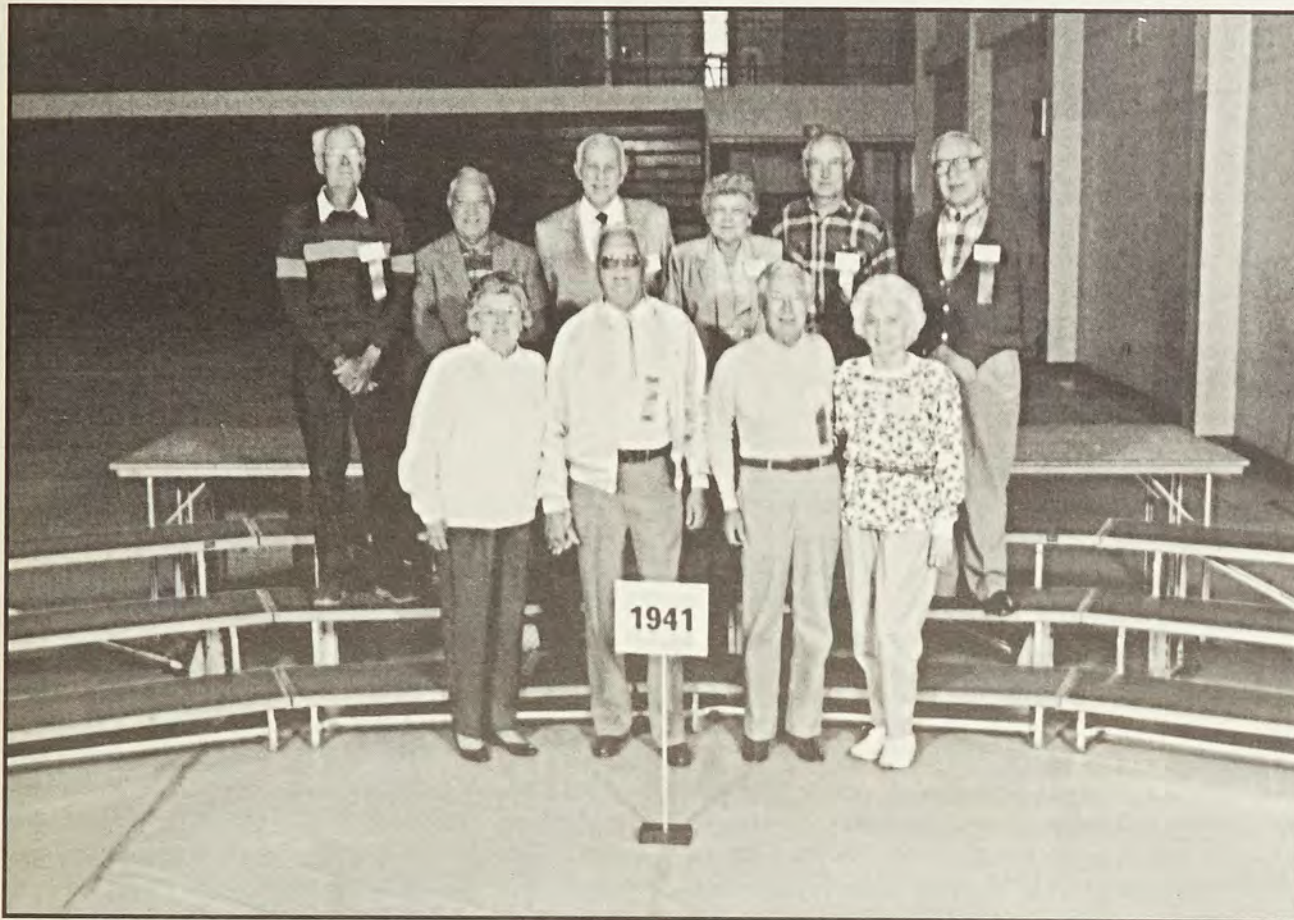
**Willard Eugene Davis**, CerE, died Aug. 26, 1991 according to a letter from his wife, Helen. After graduation from MSM he was a geophysicist with the U.S. Geological Survey for 42 years and was sent to places such as Iceland, Turkey, Cuba and Saudi Arabia. In 1979 he retired and moved to Chico, Calif.



**Harry W. Allen, a UMR booster since 1928, celebrated his 90th birthday recently. Here he is shown at a recent football game cheering for the Miners.**

## Class of 1941

1941



CLASS OF 1941, Row 1: Urba Weaver, Dick Weaver, Dusty Rhodes, and Kathy Rhodes. Row 2: Bob Schoenthaler, Art Retzel, Frank "Buck" Rogers, Mary Lee Bowman, Bill Bowman, and Bob Schweitzer.

The MSM-UMR Alumni Association has been informed that **Edmund Richard Butch**, ChE, died June 20, 1991. At MSM he was a member of Sigma Pi, the American Society for Metals, S.A.M.E. and the Detonators, held several offices in Alpha Phi Omega and Alpha Chi Sigma and was active in intramural sports. He was a cadet lieutenant and captain in ROTC and was commissioned a second lieutenant in the engineers upon graduation, served in the Corps of Engineers and retired as a Lt. Col. After his military career, he was with the Public Works Department, Bethlehem Steel, and was assistant county maintenance manager for the Pennsylvania Department of Transportation.

Betty M. Mack of Salt Lake City, Utah has notified the alumni association that **James Owen Mack Jr.**, ChE, died May 15, 1991. James attended North East Junior College in Kansas City, Mo. prior to enrolling at MSM. He was a member of the Shamrock Club, Ira Remsen, AIChE, Alpha Chi Sigma and Phi Kappa Phi, on the Rifle Team, and a student assistant in the chemistry department. He worked with Hercules Power Co. until his retirement.

1942

**Joseph T. Karbosky**, ChE, writes: "Still enjoying my retirement. I play lots of golf and always shoot 70—when I reach 70 I quit counting. Also wear two pair of socks hoping to get a hole in one!"

**Charles T. Morris**, ME, writes he is retired and traveling.

1931

**George M. Pace**, CE, is retired from the U.S. Corps of Engineers, the Cincinnati Gas and Electric Co. and private land surveying. He and Vernon Gevecker (UMR CE professor, emeritus) were on the same surveying party in the early 1930's on the Mississippi River.

1932

**Frank J. Zvanut**, CerE, Chem, '37, continued his birthday tennis play by completing 80 games in honor of his 80th birthday. Frank first challenged himself to play 60 games of tennis on his 60th birthday in 1971 and has continued the tradition since.

**Marguerite A. Gregory**, Chem, writes: "I am really enjoying retirement and have a beautiful play ground of 70 acres and a big garden."

1933

**Ellen W. Doll**, Sci, writes: "Still enjoying giving programs on my tuned bells from Bavaria. I estimate that over 2,000 people have heard them in the last 15 years. The latest count for great-grandchildren is nine!"

**William H. Lenz**, MetE, writes: "After 21 years of retirement, Ethel and I are still active with tennis, gardening, piano playing and AARP. Hope to make my 60th at Rolla in

1993. The 50th was great! I'm the oldest of the many MSM grads living at Los Alamos."

**John Charles Messersmith**, MinE, died June 29, 1991 at Galax, Va. according to a letter sent to the alumni association by **George Musson**, MetE, also '33. While John attended MSM, he was treasurer and president of his class, on the Senior Council, vice president and later president of the Independents and a trustee of the Miner-Rollamo and St. Pat's. After graduation, he was with Charleston Mining Co., U.S. Gypsum Co. and the General Chemical Co.

1934

**Richard Elton Taylor**, ME, died July 11, 1991, according to a letter from his wife, Ardella. Richard was a member of Pi Kappa Alpha and the Glee Club, on the track team, was business manager and later editor of the Rollamo and active in the MSM Players. After graduation, he was with A.P. Green Fire Brick Co. and Bethlehem Steel Co. He was retired at the time of his death.

1935

**Marvin Howard Breuer**, CE, died, according to word received by the alumni association.

1937

**Walter F. Breuer**, CE, writes: "Hazel and I still enjoy the coastal life." Walt and Hazel make their home in Port Hueneme, Calif.

1939

**Charles E. Boulson**, EE, has been named project director for Missouri Local Records Grant Program for archival preservation of Webster County (Mo.).

**Jack W. Moore**, ChE, is in his 10th year of retirement.

**Kenneth Leroy Wadlin**, EE, died, according to information provided to the alumni association. At MSM, Kenneth was a member of AIEE, a motion picture operator and with the athletic association. After graduation he was with Newport News Ship Building Co. and the National Advisory Committee for Aeronautics. He was retired at the time of his death.

1940

**Ivan M. Niedling**, CerE, writes: "Sorry I missed our 50th last year. I am still doing part-time work."

**George E. Fort**, MinE, writes: "Always look forward to being there. Rolla is my home town."

## Class of 1946



CLASS OF 1946: Arthur Meenen, Irene Meenen



## Class of 1951



Row 1 (kneeling): Tony Anderhub, Ellie Anderhub, Gloria Bender, Gerald Bender, Mavis Monroe, Mary Smith, Joe Perryman, Nancy Perryman, Loretta Moscari, John Moscari, Jacque Brilllos, and John Brilllos. Row 2: E.S. Middour, Jim Ellison, William Monroe, Robert Smith, Bob Morrison, Dolores Morrison. Behind them: Ellen Donaldson, George Donaldson, Velma Wiseman, Donald Wiseman, Dottie Wolf, Melba Comanich, George Comanich, Bruce Tarantola, Nita Tarantola, Ann Kennedy, and Gene Kennedy. Row 3: Marian Kline, Raymond Kline, Barbara Zeid, Marvin Zeid, and Bob Wolf. Row 4: Janet Burkhardt, Gerald Keller, Mary Jo Keller, Elmer Packheiser, Doris Packheiser, Jeanne Senne, Joe Senne, Bob Schuchardt, Dot Schuchardt, Mary Ann Roerman, Richard Roerman, Bill Shepard, Peg Zumsteg, and Dick Zumsteg. Row 5: Billy Burkhardt, Clark Houghton, Orvie Houghton, Keith Wick, Mary Wick, John Lynch, Jule Lynch, Charles Beckman, Helen Beatty, Don Roloff, Dickie Dunn, and Irv Dunn. Row 6: George Bollwerk, Bill Koederitz, Mary Ann Koederitz, Bill Horst, Ann Horst, Louise Langenbach, Jack Langenbach, Don Schrader, Wanda Schrader, Woody Holcomb, Joan Holcomb, Jack Koch, Jackie Carson Koch, Carl Freytag, Helen Hilburn, Harold Hilburn. Row 7: Bill Vose, John Bartel, Tom Brown, Randie Brown, Joe Powell, Kathy Powell, Neal Dowling, Betty Jane Dowling, Walt Riedinger, Sandra Riedinger, Don Dowling, and Kathy Dowling.

Leonard C. Wolff, ME, writes he and his wife, Ira Mae, plan to attend Homecoming this year.

## 1943

Edward T. Kendall Jr., ME, writes: "Not much change from last year—still single—miss my wife. Still enjoy good health and am looking forward to the 50th reunion!"

John O. Wilms, MGeo, is Director of the Free Enterprise Development Program for Czechoslovakia.

## 1944

Warren L. Larson, MetE, writes: "At Supercon we are busy making superconductor wire for the superconducting supercollider project in Texas and the R.H.I.C. Project at Brookhaven Laboratory." Two of Warren's brothers, Leonard P. Larson, CerE, '43, '47, and Eugene P. Larson, ME, '51, also graduated from MSM.

O. Morris Sievert, ME, is retired and doing some consulting. He is President of the Holi-

day Bowl this year, "America's most exciting bowl game".

## 1945

Earl M. Shank's, ChE, address is Zwarte Leertowers, Straat 35, B8000 Brugge, Belgium.

## 1948

Gerardo Joffe, MinE, writes: "In March of this year I sold Haverhills, a national mail order and syndication business, which I

founded in 1967. I continue with the company in a consulting capacity and handle their media advertising. In addition, I am the founder and president of FLAME (Facts and Logic About the Middle East), a non-profit educational organization."

## 1949

David F. Brasel, ChE, retired from Continental Can Co. in 1982. He lost his wife, Jan, in 1989. He is now very active in ham radio and volunteer work.

The alumni association has been informed that **Clifton Kimbey Mulinaux**, CE, died Nov. 27, 1990.

**Albert F. Seelig**, ME, writes: "I visited **George Crabtree**, ME, '50, in Springfield, Mo. last fall. He is retired from Burlington Northern Railroad and active in the local gun club. His wife commented that she hadn't heard so much 'railroad talk' in a long time. We both worked in the industry for many years."

**Landon C. Viles**, CE, writes: "We just returned from a 10,000 mile camping trip through 16 of the western and midwestern states. After more than 40 years we enjoyed visiting with my Rolla landlady's daughter in Webb City."

**David G. Wisdom**, CE, writes that he hopes to attend Homecoming weekend this fall.

**Robert H. Neusthelter**, ME, new address is 190 Lake Side Drive, Montgomery, TX 77356 on Lake Conroe.

**Robert R. Steele**, CE, retired from Jones and Boyd Inc., Consulting Engineers and is working part time as a consultant.

**Walter W. Walker**, ChE, retired July 1, 1991 after 41 years with Marblehead Lime Division of General Dynamics.

1951

**Neal B. Dowling**, EE, writes: "Betty and I plan to be back for the 40th class reunion at Homecoming. So far we have five or six others lined up to attend also. Looking forward to it."

**Gerald N. Keller**, MGeo, writes: "We've retired, however I'm aware of the many golf courses within reach that are on my schedule to challenge. Jo and I also bowl regularly—sometimes get scores reversed!"

**Roy G. Miles**, GGph, writes: "I am head of the geology department and program head for physical sciences at Virginia Western Community College in Roanoke, Va. I recently returned from a geology field study of Szechwan Province, China."



**ASTON DONATES SEISMOGRAPH TO GEOLOGY/GEOPHYSICS DEPARTMENT**

Dr. Jerry Rupert (left) receives a portable shallow refractory seismograph from donor R. Lee Aston of Elberton, Georgia. Aston graduated with the class of 1950 in mining engineering and used the seismograph in his consulting mining practice. Aston became an attorney and practices in the specialty of mineral and environmental law. He is presently a graduate student at UMR concurrently working on a master's degree in geological/environmental engineering and a doctoral program in environmental policy law at another university. Aston is a member of the Georgia, Indiana and Montana bars.



**Hans Schmoldt**, '44, sent us this photo of his out-of-state "Miner" license plate, in response to Bob Saxer's challenge in a previous issue of the Alumnus. For those of you who are unable to sport a Missouri UMR plate, send us a picture of your out-of-state license plate that shows your pride in MSM-UMR and we'll print it!

1950

**Kenneth R. Bradley**, PetE, writes: "I retired September 1986 from the old Lincoln Engineering Co. of St. Louis. Keep busy fishing, hunting and volunteer work. Camille and I plan to do a good bit of traveling over the next couple of years."

**Elmer Henry Deeken**, EE, died July 15, 1991, according to an obituary from the Houston (Texas) Chronicle provided by **James R. Paul**, PetE, '43. Elmer attended Jefferson City (Mo.) Junior College prior to enrolling at MSM. He served in the U.S. Navy during World War II and was awarded the Purple Heart. After graduation he was employed with General Electric until his retirement in 1980 and was an active member of the Houston Section of the MSM-UMR Alumni Association.

**Clarence A. Isbell Jr.**, MetE, MSEMgt '72, writes: "We celebrated our 40th anniversary with a trip to the Canadian Rockies and a cruise to Alaska."

**Class of 1956**



Row 1: Don Brown, Joyce Brown, Dennis Gooding, Betty Gooding, Ed Walton, Julia Shildmyer, and Jim Shildmyer. Row 2: Carl Block, Gerry Block, Ray Tauser, Mary Tauser, Ron Gillham, Shirley Gillham, George Baumgartner, Marsha Baumgartner, Charles Saussele and Lee Saussele.

Alaska Adventure



Recently five alumni from MSM-UMR took the INTRAV Alaskan Adventure trip. From the cruise ship, we visited Ketchikan, Scagway and Sitka, docking at Whittier. From there we took the train into Anchorage, then up through Denali National Park, and north to Fairbanks. It was a most enjoyable two-week trip. We bussed to see the sights at Fairbanks, stopping at the Alaskan pipeline, where I took this picture. The alumni pictures are (left to right): Lee Aston, '50; Gerald Casteel, '56; Lester "Woody" Holcomb, '51; Kenneth L. Birk, '52; and Dale Walker, '50.

Submitted by Mrs. Lester (Joan) Holcomb

**Kenneth Joseph Thaller**, MetE, died Feb. 17, 1989, according to information provided the alumni association. At MSM he was a member of Kappa Sigma, AIME, and the American Foundryman's Society. After graduation he was with General Motors and the Olin Corporation.

**William B. Vose**, ChE, writes: "I plan to be at my 40th reunion in Rolla Oct. 4th and 5th of this year—really looking forward to this Homecoming."

1952

**Robert William Arfman**, EE, died Dec. 29, 1990, according to a letter from his wife, Margaret. Prior to his enrollment at MSM, Robert attended Sampson College. After graduation he was with the United States Ordinance Plant, P.R. Mallory and Co. and AT&T at the time of his death.

**Kenneth L. Birk**, ChE, writes: "Had a very nice cruise and rail trip in Alaska with a few other MSM alums this summer."

**Denver S. Patton Jr.**, ME, writes: "My spouse, Vonice, passed away on Jan. 13, 1991. I miss her. Worked the first half of the year in Florida."

1953

**James E. Cauthorn**, CerE, writes: "I continue to work at AT&T in Omaha, Neb., engaged in manufacture of solid state gas tube and carbon protection devices for telephone circuits. Visiting my five children and seven grandchildren puts me on the road several times per year."

1954

The MSM-UMR Alumni Association has been notified by Grace Archer, wife of **David W. Archer**, MinE, that he died June 6, 1991.

While attending MSM Dave was a member of the Petroleum Club, Engineers Club, AIME, Independents, Spelunkers Club, and Newman Club. After graduation he worked for Texaco and was later self employed with Archer Oil Co., from which he retired.

**Kenneth D. Cole**, CE, writes: "I started work as project engineer on Sept. 23, 1991 on the Bur Juman shopping center in Dubai, United Arab Emirates. This is a \$40 million shopping center and the second inclosed air conditioned shopping center in Dubai."

**James A. Gerard**, CE, writes: "I am now organizing a commercial industrial real estate brokerage operation within Coldwell Banker Fireside Realtors in Crystal Lake, Ill. Our youngest son, Bob, was married Sept. 1, 1991—the last of five out of the house."

1955

**James L. Elswick**, CE, retired from Southwestern Bell Telephone Co. in St. Louis after 35 years.

**Herman A. Ray**, CE, retired from U.S.G.S., writes in a letter to **John E. Smith**, CE, '51, (also retired from U.S.G.S. and a volunteer with the MSM-UMR Alumni Association) that he is secretary-treasurer of the Idaho Seniors Golf Association. Herman works two to three days a week at a local golf course and plays on most of the other days.

1957

**Walter H. Ellis**, GGph, '57, MS MetE, '64, continues as chief metallurgist for Kaiser Aluminum Co.'s Valco plant in Tema, Ghana, West Africa while his wife, Lois, remains in Ohio and visits Walt twice a year.

1958

**William E. Schluemer**, ME, MSEMch, '70, has been with McDonnell Douglas (MCAIR) for 30 years.

**Robert J. Fahrig**, ChE, retired from Stone and Webster and is now doing part time consulting on refining under the name of Horecky/Fahrig Associates. His partner is Carl Horecky, a friend of 30 years.

1959

Mail addressed to **Paul Francis Golden**, ME, has been returned indicating that he is deceased. At MSM he was a member of Kappa Sigma, SAE, ASME and Pi Tau Sigma, on the Miner Board and graduated with second honors. He was employed with Union Carbide in Kentucky and St. Louis and was last reported to work for Monsanto.

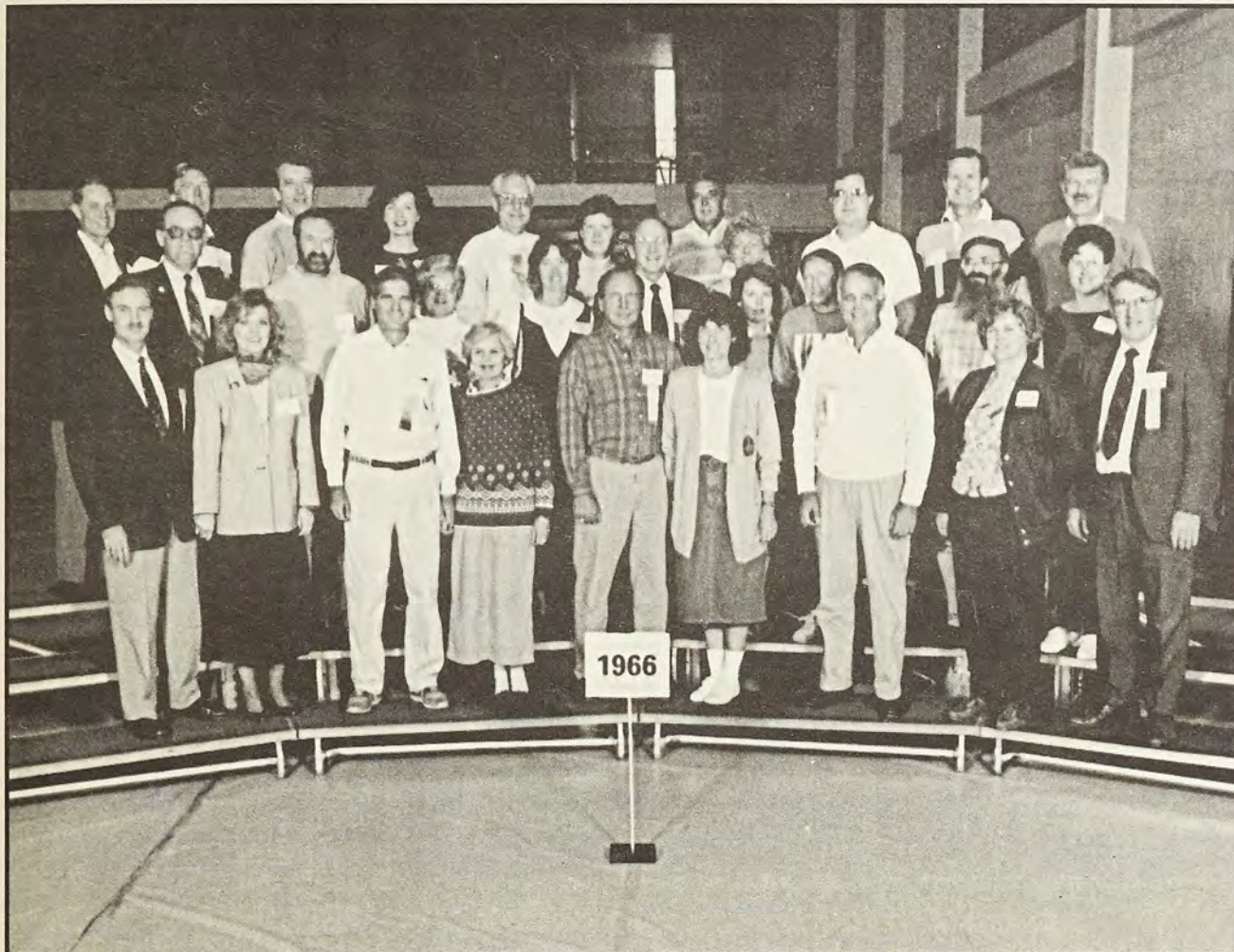
Class of 1961



Row 1: Dale Leidy, Irene Leidy, Bonnie Latzer, John Latzer, Jody Furnish, and David Furnish. Row 2: Merle Southern, Judy Southern, Don Harclerode, Rene Leonard, Al Bolon, and Jim Staley. Row 3: Don Myers, R.B. Spieldoch, Harold Taylor, Robert Ann Taylor, Kathy Farmer, and Larry Farmer.

Class of 1966

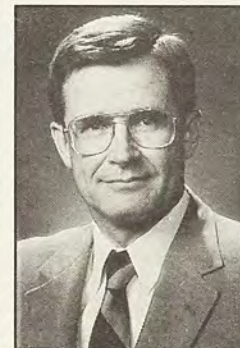
1964



**Gerald Duane Galloway**, CE, '64, '68, has been promoted to senior manager, governmental relations/environmental affairs for City Utilities in Springfield, Mo.

1965

**Paul A. Hustad**, CE, is the vice president of Burns and McDonnell and the firm's principal geotechnical consultant. Along with Dr. John Ruf, he leads the firm's waste management group.



**Robert L. Keiser**, EE, president and CEO of Oryx U.K. Energy Company in London since December 1989, has been elected to the position of president and chief operating officer (COO).

**J. Derald Morgan**, EE, Dean of the College of Engineering at New Mexico State University in Las Cruces, was installed as Chair of the Professional Engineers in Education Division and Vice President of the National Society of Professional Engineers.

**William J. Price**, ChE, writes: "I was activated for Desert Shield/Storm for 9 months and assigned to the Chemical Research Development and Engineering Center at Aberdeen Proving Ground, Maryland. I am now back at Union Carbide Seadrift Texas Plant working with 'Unipol' polyethylene process."

**M.W. "Bill" Vance**, CerE, '65, '67, his wife, Sharon, and daughters Beth and Emily reside in Export, Pennsylvania. Bill works at Alcoa Technical Center as a staff engineer—ce-

Row 1: Gary Bardon, Nancy Bardon, Robert Heider, Donna Richardson, Phil Jozwiak, Barbara Jozwiak, Matt Coco, Judy Strickland, and Tom Strickland. Row 2: Ken Ragsdell, Harold Fiebelman, Joyce Fiebelman, Diana Peterson, J.B. Peterson, Helen Lankford, Dennis Lankford, Howard Sussman, and Joy Sussman. Row 3: Dick Paul, Jim Perkins, Mike Brynac, Carol Brynac, Les Stewart, Linda Stewart, Andy Hoffee, Betty Hoffee, Jack Halpern, Warren Krueger, and Jim West.

**Allen Lee Rouse**, ChE, died on Aug. 4, 1991. Prior to enrolling at MSM, he attended St. Joseph Junior College. Al was a member of Kappa Alpha, AIChE and Alpha Chi Sigma at MSM. After graduation, he was with Farm-land Industries and retired as vice-president and general manager of Standard Oil's Nitrogen Chemical Division.

cal Engineers. Hank and Lyla's second child graduated from college this year and plans to continue her education. Their third child is a sophomore at the University of Oklahoma studying chemical engineering and they still have a fourth and eighth grader living at home. They live at 701 Sooner Park Drive, Bartlesville, OK 74006.

ors engineering in July 1991. Responsible for the integration of interiors manufacturing and engineering functions for the 747/767 Division. I will complete my final tour of duty with the U.S. Army (30 years) Corps of Engineers in April 1992 with the rank of colonel, USAR. Daughter, Kim, is co-captain of her high school drill team (senior year)."

**Tarsem S. Purewal**, NucE, writes: "After graduation, I worked for the Bechtel Corporation in San Francisco until 1965 and have been in Canada working for Cndn General Electric (Atomic Power Dept.) since in various departments and agencies of the Federal Government of Canada and am now head of Pun Jet Enterprises, a diversified company with interests in energy conservation, management consulting and other areas."

**Dinesh K. Shah**, ChE, writes: "I have joined NEPTCO, a Cooksen American Co., as their director of R&D. My wife, Sumi, and our daughter, Tonia—a junior in high school—have moved to Hickory, N.C. Our oldest daughter, Natasha, is a junior at UCLA."

1960

**Lewis K. Cappellari**, Phys, is systems engineer in the Advanced Tactical Systems Department of Hughes Aircraft Co. EDSG Division in El Segundo, Calif.

**George H. Graves**, ChE, writes: "I retired from Inland Fisher Guide Division of General Motors as manufacture engineering director for the automotive lighting business after 31 years of service. My wife, Mary (McClellan), and I intend to do a lot of traveling and relaxing and I may do some part time consulting."

**R.W. "Hank" Hankinson**, ChE, '60, '62, has been promoted to manager, client applications and technology services, information services for Phillips Petroleum Co. in Bartlesville, Okla. He was elected a Fellow of the Institute, American Institute of Chemi-

1961

**Louis J. Chiodini Jr.**, CE, recently returned from Saudi Arabia after a 6-month active duty tour and has assumed his regular job as director of programs management for the U.S. Army Corps of Engineers, St. Louis District.

**Robert M. Rose**, MetE, died March 18, 1991, according to information provided the alumni association by Dolores Rose. At MSM, Robert was a member of the "M" Club, AIEE-IRE, ASM and AFS and lettered both in football and track. After graduation, he was employed by Alcoa.

1962

**Henry P. Duvall**, Math, writes: "I was promoted to senior manager for 747/767 interi-

ALUMNI SONS AND DAUGHTERS GRANT

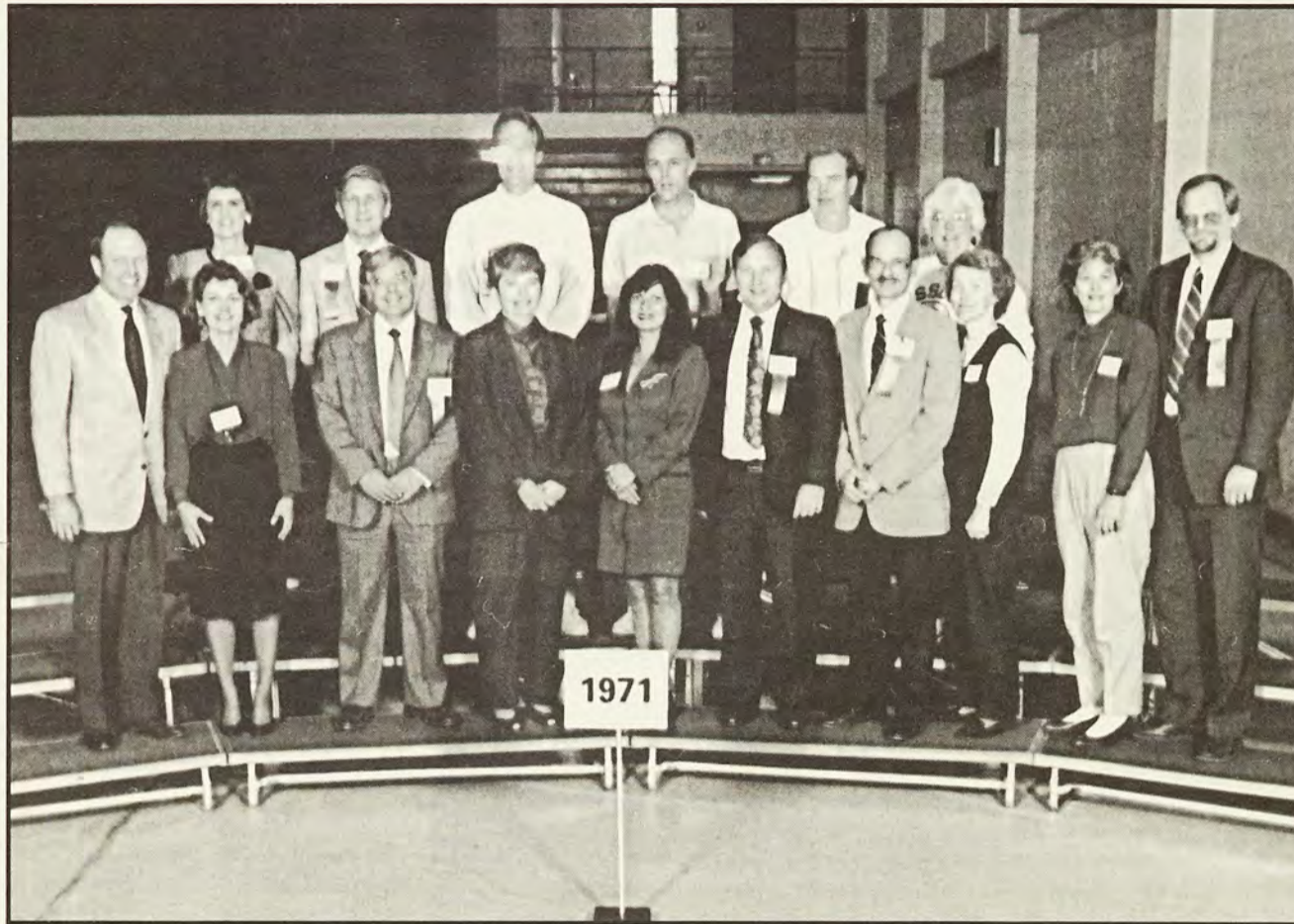
Do you have a son or daughter planning to attend UMR? If you live outside Missouri, you'll be interested in the Alumni Sons and Daughters Grant. Your children may be able to attend UMR without having to pay the out-of-state tuition rate! Contact the Alumni Office for an application form.



ORDER A COPY OF YOUR REUNION CLASS PHOTO!

See page 47 for details

Class of 1971



Row 1: John Gayer, Evelyn Gayer, Carl Dufner, Mary Ann Dufner, Phyllis Bertschmann, Dan Bertschmann, David Bryan, Pat Bryan, Cathy Olson, and John Olson. Row 2: Judy Bondi, Jim Bondi, Jack Sanders, Henry Sandhaus, Bruce Clark, Janice Clark

ramics and would like to hear from other alumni from the classes of '65 and '67.

1966

**Robert W. Hogue's**, CE, new address is 228 Greentree Parkway, Libertyville, IL 60048.

**David Bartine**, '66, presented a nuclear engineering seminar on "America on the Threshold: The Stafford Panel Report on the Space Exploration Initiative." David is Director of Space Programs at the Oak Ridge National Laboratories.

1967

**James D. Houser**, CE, writes: "Montgomery Engineers is providing program management service for the City of Sydney, Australia. I am working there directing the water reuse study for Sydney."

**Gerald R. Wittenauer's**, CE, address is 29 Lee Ave., Ferguson, MO 63135-2951.

1968

**Larry J. Wallace's**, ME, new address is P.O. Box 312, Decatur, TX 76234.

1969

**Gary W. Neal**, EE, MS EE, '70, writes: "I am now director of advanced development for postal systems within Martin Marietta. We are designing, developing and manufacturing automated and mechanized mail sorting equipment for the U.S. Postal Service. My wife, Kathleen, and I moved from Denver, Colo. to Marshall, Va.—near Washington, D.C."

1970

**Elbridge W. Bartley III**, AE, MS EMch '72, MS EMgt '73, recently returned from a "six month paid vacation" to Saudi Arabia, Kuwait and Iraq. He writes: "Glad to be back home".

1971

The MSM-UMR Alumni Association has learned that **Richard A. Bernard**, EMgt, is deceased. Richard received a master's degree in Engineering Management from UMR and was Head/Military Department for the Colorado School of Mines.

**Ronald G. Choura**, EE, writes: "The family is doing well. Katie started college this past year and Todd is looking towards attending UMR in the fall of 1992. Telecommunications in Michigan are keeping us busy these days at the Public Service Commission."

**Stephen Richard Franklin**, CE, died July 29, 1991. At UMR Steve was a member of the Campus Club and Chi Epsilon. After graduation he was with the Kansas Highway Commission, Sverdrup and Parcel, Hudro Air Engineering Co., Becker and Associates, FRUCO Engineers Inc. and was with Sverdrup Corp. at the time of his death.

**James H. Jones**, ChE, writes: "I was recently promoted to captain in the U.S. Public Health Service (PHS). I also received the PHS citation for work to improve the safety and health of workers in small businesses."

**James R. Keiser**, MetE, a senior development staff member in Oak Ridge National Laboratory's (ORNL) Metals and Ceramics Division, received a first-place award in the wear photomicrograph competition held in conjunction with the 8th International Conference on Wear Materials. The contest was sponsored by ASM International.

**Michael P. Mulvaney**, EMgt, has been appointed by Procter and Gamble Manufacturing Co. to plant manager at their Jackson, Tenn. Food and Beverage plant.

**Gerri (Harlan) Tyler**, Psyc, is pursuing a master's degree in counseling from Seattle Pacific University in preparation for a career change. Her husband of 18 years, Dean (**James D. Tyler**, CerE, '70), is a financial manager at US West.



**Harvey P. Nixon**, Phys, has been named manager-mechanical and tribochemical sciences at Timken Research in the Timken Company's Technology Center in Canton, Ohio.

**Thomas M. Weaver**, EMgt, writes: "I was promoted Jan. 1, 1991 from district manager of San Diego to manager construction sales for Southern California, General Electric Electrical Distribution and Control Sales. June 1, 1991 was my 20th anniversary with General Electric. My wife, Ann, is currently seeking new employment in Yorba Linda, Calif., where we just moved. Daughter, Melinda, is now 11 and will be attending junior high school this fall. She continues to excel in the 'MAGNET' GATE program."

1972

**Gary E. Ferguson**, ME, writes: "Currently working on construction of a coal-fired power plant on Oahu at Barber's Point, Ewa Beach, Hawaii. Completion is scheduled in the fall of 1992. I was recently promoted to vice president of Black and Veatch Construction Inc."

**Douglas A. Hopkins**, CE, is the director of public works for the City of Arnold, Mo. and is on the Arnold planning and zone committee.

Sandra Price informed us of the death of **G. Lynn Price**, '72, on June 7, 1991. Sandra tells us, "Lynn went to work for Westinghouse after graduation from Rolla. He did a lot of traveling and worked on installing turbine generators in the power plants he worked for. Lynn went to work for TU Electric in 1982 as power engineer at Monticello plant in Mt. Pleasant, Texas. In 1984 he became senior engineer and later that year was promoted to



superintendent of plant engineering. He moved to Martin Lake plant at Tatum, Texas in the same capacity in 1987 and a year later assumed the role of administrative superintendent in addition to his engineering responsibilities. Lynn was named

superintendent of plant operations in 1989 and was working in this capacity at the time of his death." Lynn leaves behind two sons, Brandon and Ryan. Trustee accounts have been established for their college education, and memorial contributions may be sent to the Lynn Price Memorial Fund, Carl Schwanke (UMR, '70), Trustee, 14927 Evergreen Ridge, Houston, TX 77062.

1973

**James Austin Franklin Jr.**, EE, died July 13, 1991. Jim had been employed at various places during his career, including self employment building computer panels. For the last five years he was employed with civil service at Ft. Leonard Wood, Mo.

**Stephen L. Garrison**, GeoE, has been elected President of the Association of Engineering Geologists.

**David W. Kroeter**, MetE, writes: "I was recently awarded third prize in the annual international ductile iron casting design contest sponsored by OIT-FER et Titane located in Eschborn, Germany."

**Donald Dwight Hoffman**, Phys, died December 1, 1990, according to information the alumni association received. After graduating with a master's degree in physics he was with AT&T—Technologies.

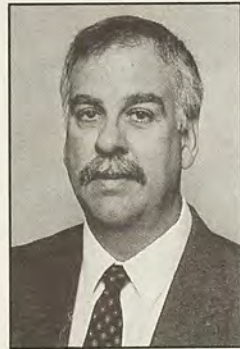
**Alexis C. Swoboda**, GGph, GeoE, '75, is Vice President for Member Services on the Board of Directors of the Society of Women Engineers (SWE) for 1991-1992. She is a staff reservoir engineer for Maxus Exploration Co., Dallas, Texas.

1974

**Gregory A. Miller**, EE, writes his address is 7121 Turnberry Road, Madison, WI 53719, (608) 273-8239. Greg is with Wisconsin Power and Light in Madison.

**David A. Sager**, ME, writes: "I am still working for the 'Fun Filled Ford Factory'. On Valentine's Day, Glen Thomas joined his two brothers, Alan, 6, and Rob, 3 1/2. We have now joined the three boys club."

The MSM-UMR Alumni Association has learned that **Marion Stan Sanders**, EE, died.



**Daniel A. "Dan" Sandhaus**, Hist, has joined W.R. Bonsal Co. as product manager for the Tile Products Division.

**Jack L. Vance's**, CE, new address is P.O. Box 1063, Jakarta, Indonesia 10010. Jack enclosed a donation to the MSM-UMR Alumni Association for the Joe E. Vance Scholarship Fund.

1975

**Mark A. Algaier**, Chem, has been promoted to vice president of research and development for Hillyard Chemical in St. Joseph, Mo.

**R. Henry Birk**, ChE, was promoted from project leader to research leader in the engi-

neering laboratory of central R&D at the Dow Chemical Co. in Midland, Michigan.

**Charles P. Daniells Jr.'s**, CE, MS EMgt '83, new address is 617 E. 74th Street, Kansas City, MO 64131. Charles is project engineer for Johnson County (Kan.) Water District No. 1.

**Charles F. Petersen**, ME, and **Sharon (Mueth) Petersen**, CSci, '86, announce the birth of their first child, Deanne Nicole, born May 24, 1991. Charles is a quality engineer with the U.S. Army Aviation Systems Command in St. Louis and Sharon was a systems programmer at Washington University before their new arrival. They live at 2551 Charlack Ct., St. John, MO 63114.

1976

**Katherine (Hand) Becker**, CSci, is still at Black and Veatch after 15 years. She and David had their first child, Zachary John, born July 23, 1991. They are "doing great".

**Robert E. Burton**, ME, and his wife, Carol, are in the process of building a home. Around Thanksgiving of this year their address should be 14772 Beacon Park Drive, Carmel, IN 46032.

**Milton C. Dickensheet**, CE, is the director of city services for Bolivar, Mo.

**Gary L. Dolle**, EMgt, writes: "The regulatory activities associated with my job at Southwestern Bell are very exciting and rewarding. We enjoyed two vacations this summer. One with the children to Mt. Rushmore, Yellowstone and the Grand Tetons. The other, only adults, to Maui and Kauai for our wedding anniversary. Ready to go back!"

**Jon P. Frederickson**, NucE, writes: "I am still working for various wings of the military-industrial complex. I'm now doing comm s/w for Joint-Stars, better known as the 'Scud Buster'."

**William L. Hammers'**, ME, new address is 4918 Arrowhead, W. Bloomfield, MI 48323.

**Sue (Braaf) Langhorst**, '76, spoke to nuclear engineering students and faculty on the UMR campus on September 16 on "New Radiation Protection Regulations: What are we in for." Sue is currently director of health physics at the University of Missouri research reactor.

**Richard W. Mudd**, CE, was recently named vice president of Standard Testing and Engineering Co. He is also President of the Oklahoma Chapter of American Concrete Institute.

1977

The alumni association has been informed that **Daniel Thomas Hoffmann**, Chem, '77, '78, died. After graduating from UMR with a master's degree in chemistry, Daniel spent time in the U.S. Army and, according to the latest information available, was a chemical engineer with Texas Instruments in Dallas at the time of his death.

**Louis G. Loos'**, CE, '77, '82, office has moved to Riverport Drive in Earth City (Mo.). L.G. still lives on Burns Avenue in Kirkwood.

**David L. Perry**, E.E., writes: "Brenda and I are proud to announce the birth of our first son, Connor James, born on the Fourth of July. I passed my Ph.D. final examination in optical science on July 11th and plan to teach."

1978



**Dennis L. Chenoweth**, CE, has been named coordinator of facilities management at Saint Luke's Hospital in Kansas City, Mo. Previously, Dennis was construction coordinator for the expansion at Saint Luke's Hospital.

**Thomas R. Gredell**, CE, '78, '80, writes he had dinner in St. Louis last August with some of his Kappa Sigma fraternity brothers.

**Michael A. Haynes**, Chem, writes: "I was transferred to DowElanco in October 1990. First time working in pesticide area. Debbie and I are happy to be back in the Midwest."

The new address for **James W. Parker**, EMch, is 7600 Blanco Road, #208, San Antonio, TX 78216. He is senior structural analyst for Dee Howard Co. in San Antonio.

1979

**Philip "Randy" Bissey**, EMgt, his wife, **Sharon (Vanderwal)**, ME, '81, and their two daughters (4 and 1) recently moved to Tulsa. Their address is 7009 E. 10th Street, Tulsa, OK 74133, (918) 299-6261. Randy is with Cooper Industries and has been promoted to Branch Manager. Sharon is a "domestic engineer" and says "she loves it".

**Robert E. Hudgson**, EE, writes: "I received my MBA in March and my wife, Loretta, received her undergraduate degree in accounting at the same time. This was just in time to move and start my new job at Lenox China (in Absecon, N.J.)."

**Darrell E. Milburn**, CE, and **Reba Faye King** were married March 30, 1991 in McMinnville, Tenn.

**Kathleen (Dill)**, CSci, and her husband, **J. Barry Shelden**, PetE, '81 are the parents of a baby girl, Amy Jean, born Sept. 25, 1991.

**Lawrence D. Wolf**, CE, the candidate representing the Ozark Chapter of the Missouri Society of Professional Engineers (MSPE) for the Young Engineer of the Year Award, was recognized at the annual banquet at Tan-Tar-A Resort in Osage Beach, Mo. Larry was presented with an engraved briefcase.

Class of 1976



**Larry Bares, Kay Bares, Lindsay Bagnall, Hannah Bagnall and Kent Bagnall**

1980

**Thomas A. Dittmaier**, CE, the candidate representing the Western Chapter of the Missouri Society of Professional Engineers (MSPE) for the Young Engineer of the Year Award, was recognized at the annual banquet at Tan-Tar-A Resort in Osage Beach, Mo. Tom was presented with an engraved briefcase.

**George W. Ekberg**, GeoE, writes: "I have enjoyed working as a hydrogeologist here in West Africa the last few years but I miss going caving on weekends with the UMR Spelunkers Club." George is a missionary/water resource specialist with the Southern Baptist Foreign Board.



**Charles R. Jarrett**, ME, has been named supervising engineer-manufacturing engineering in the Timken Company's Railroad Bearing Business-USA in Columbus, Ohio.

**James D. Lee**, Econ, was transferred to Houston, Texas. Jessica, the newest addition to the Lee family, joins Whitney, 5.

**Merrily A. McGowan-Shaw**, Econ, was awarded an M.S. in Applied Statistics from George Washington University in May 1991.

**Martha (Dixon) Provencher**, EMch, writes: "After 10 years with Westinghouse in Sunnyvale, Calif., I decided to take time off to stay at home with our son, Matthew, 1. We just moved to New Hampshire—much closer to family. Our new address is 17 Thoreau Drive, Nashua, NH 03062."

1981

For alumni news regarding **Sharon (Vanderwal) Bissey**, ME, see **Philip "Randy" Bissey**, EMgt, '79.

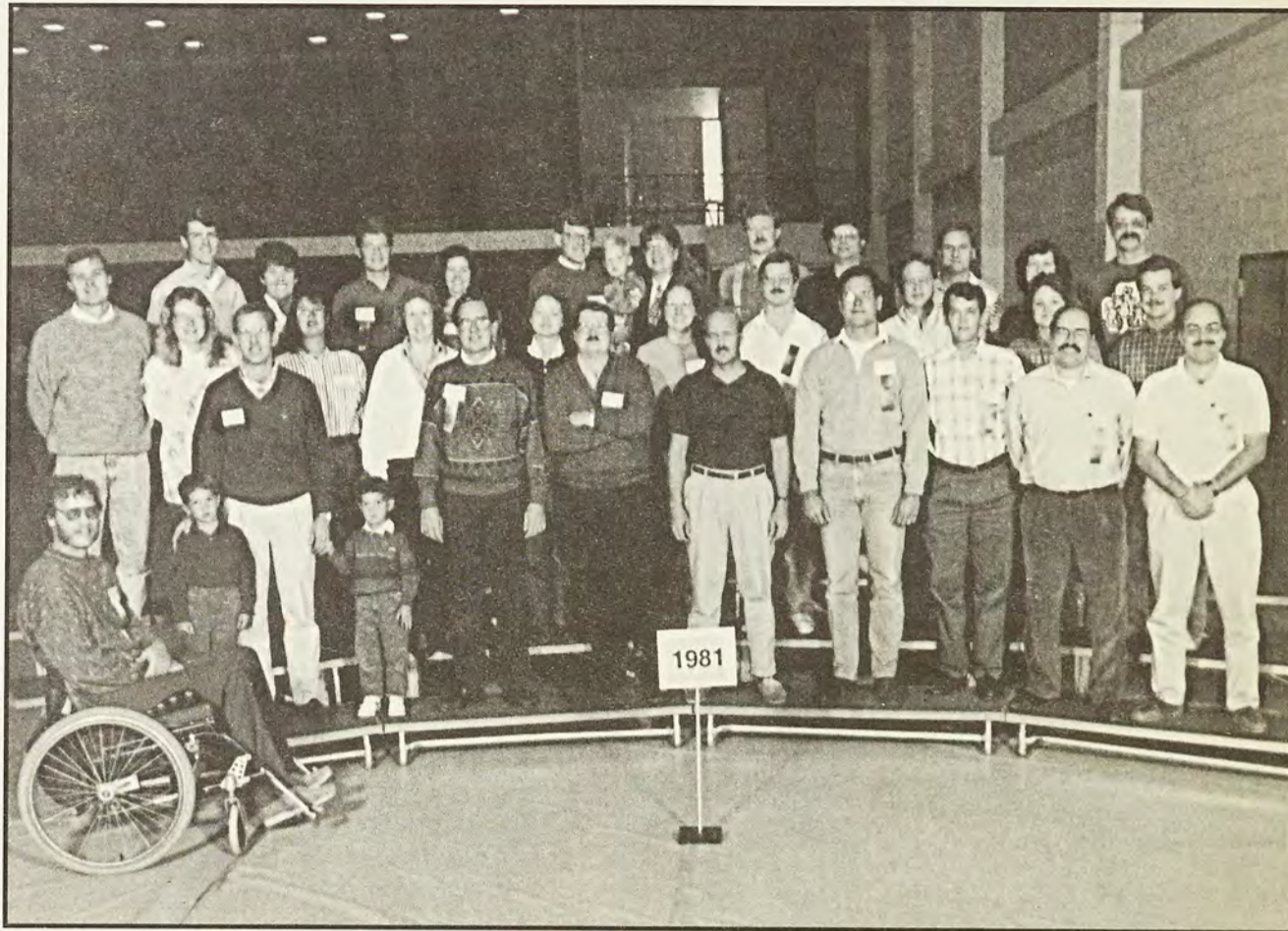
**Donna L. Dillon**, CSci, and **Michael O. Thibodeau** were married Sept. 1, 1990 in St. Charles, Mo.

**Roger K. Dougherty**, ChE, writes: "Our second son, Keith Allen Dougherty, was born Aug. 30, 1991 in Kansas City, Mo."

**Michael R. Johnson**, ME, and his wife, Monique, are the parents of a baby boy, born Dec. 2, 1990.

**Stephen E. Kipp**, EMgt, writes: "Patty, Dylan and I are doing very well. I recently changed jobs and am working for Sonoco Products Co. in the plastic drum division as senior sales representative."

**Steven W. Kopp**, GeoE, and **A. Francis "Fran" Tews** were married April 27, 1991 in Homewood, Ill. They plan to make their home in East Lansing, Mich.



**Row 1: Bruce McCoy, Paul Winter, Ben Winter, Brad Winter, Greg Klumb, Pat McAllister, Mike Schaefer, Doug Gordon, Dale McHenry, Mike Martin, and Pat Martin. Row 2: Bill Bennett, Dianne Bennett, Brenda Winter, Jan Klumb, Connie McAllister, Debbie Hawbaker, Jeff Hawbaker, Bob Hea, Mitzi Euell, and Bill Euell. Row 3: Kent Goddard, Peggy Goddard, Vince Grelle, Debbie Grelle, Mac Daily, Adam Daily, Karen Daily, John Renz, Steve Hanmann, John Boncek, Barb Foehrweiser, and Gery Foehrweiser.**

**J. Barry**, PetE, and **Kathleen (Dill) Shelden**, CSci, '79, are the parents of Amy Jean, born Sept. 25, 1991.

**Jeffrey J. Sunderland**, ME, is living in the San Francisco Bay area.

1982

**Brenda (Horak) Diaz**, PetE, and her husband, Rene', are the parents of their second child, Andrew Evan, born Nov. 14, 1990.

**Thomas C.**, ChE, and his wife, **Diana (Wilson) Esry**, EMch, also '82, announce the birth of Carter McLean, born on July 3, 1991. Carter joins Caitlin, Bethany and Michael.

**Kirk C. Foeller**, GGph, recently returned after eight months' duty in Saudi Arabia and Iraq.

**Robert D. Gillis**, EMgt, writes: "I was an army reservist called to active duty for Operation Desert Storm. I served in the 411th Engineer Brigade, Dhahran, Saudi Arabia during the entire war."

**Shelley (Heigert) Gore**, PetE, writes: "I received an MS in Engineering Management from the University of Southwestern Louisi-

ana in December 1990. Second child, Jared Mikkell, was born July 18, 1991. Josh, our oldest, is 2."

**Lori (Looser) Henson**, GeoE, has taken a position as project engineer/safety director with Kloster Construction and is currently working on the Metrolink Light Rail System. She has two children; Bryon, 4, and Eric, 2. She and Joe live at 6532 Marmaduke, St. Louis, MO 63139.



**David W. Kunstel**, CE, has been promoted to regional sales engineer in the Central region of Contech Construction Products Inc.

**Deborah (Cox) Linck**, CSci, writes: "Dennis (Dennis W. Linck, EE, '85) and I have a beautiful little girl, Amy Lynn, born in July 1990. Between our jobs, friends and Amy, we never lack for things to do!"

**Maureen (Murphy) Midgley**, ChE, and her husband, **Stephen G. Midgley**, EMgt, also '82, are living in Franklin, Tenn. with their daughter, Ellen, 4. Both are with Saturn Corporation.

**Samuel D. Otto**, ME, and his wife, Jane's, new address is 5724 Central, Kansas City, MO 64113.

**Michael J. Starbuck**, GGph, is wintering-over at the South Pole Station with the U.S.G.S. Antarctic program.

**Mary (Ford) Telker**, GeoE, writes: "Rob and I are still working at McDonnell Douglas. We have a three year old little girl named Lauren Alexis."

1983

**Daniel L.**, ME, and **Laura Ellen Harrington**, CSci, are living in Lexington, Ky. Dan is a design engineer for Clark Material Handling, truck division, and Laura is at home with their three daughters.

**Stephen J. Jacobi**, ME, and **Lisa Wasinger** were married April 27, 1991 in St. Louis. They plan to live in St. Louis.

**Michael R. Mathews**, EE, received an MSEE from the University of Southern California (USC) in 1988 and is working towards an MBA at USC.

**Michael T. Moylett**, GGph, '83, '85, is a senior geologist with Exxon in the Permian Basin. He invites visitors to the "Permanent Basement" to call him at (915) 683-7715, and others to write him at 25 Desta Drive, Building C, Midland, TX 79702 (work) or 614 W. Storey, Midland, TX 79701 (home). He says he is still single and has been participating in triathlons for four years.

**James L. Pinkley**, MinE, writes: "We currently live in Springfield, Ill. I am still working for Peabody Coal Co. Enjoying the summer with Laurie and our children, Franklin, 5, and Kelly, 2."

### 1984

**Laura Ford-Breitenstein**, Psyc, writes: "After 10 years of college, I decided to stop when I finished my Ph.D. at the University of Louisville this year. I specialized in human factors engineering. My husband, Russ, and I enjoy living in Louisville and I am looking forward to my new job on the faculty of Hanover College."

**Michael C. Hoerle**, ChE, writes: "I was promoted to plant superintendent in March and moved to Iowa Falls, Iowa. **Ellen (Westerman)**, ChE, '85, stayed in Kansas City. Since then I have been transferred back to Kansas City and have become plant superintendent. Having two chemical engineers in the same family can be stressful but this time things worked out great."

**Mark V. Jelinske**, ME, and his wife, Dolly, are the parents of a baby boy, Robert Jeffrey, born on June 10, 1991. He joins his brother, Daniel, 2. They live in Westminster, Colo.

**David C. Kerber**, EE, a lieutenant in the U.S. Navy, recently reported for duty at the Naval Education and Training Center in Newport, R.I.

**Robert A. Laske**, ChE, married Cheryl Marie Mack, R.N., on June 30, 1990. Robert is a systems engineer for Electronic Data Systems in Southfield, Mich.

**Robert T. Magruder**, ME, writes: "We have again moved back to the Detroit area. I am manager of all Toyota projects at ASC and learning Japanese at night school. Angela graduated in March with a BSEE and is now working on an MSEE. The kids are growing fast. Gregory is 6 and Kristin, 3."

**Stephen J. Poppe**, ME, and his wife, Margie, welcomed a new addition to their family, Megan Elizabeth, born Aug. 3, 1991.

**Richard A. Tucker**, MinE, and his wife, Diane, now have a second daughter, Jessica, born in March. Richard has changed positions at Monterey Coal Co. and is now an engineer at their No. 2 Mine."

**William E. Walker III**, ME, writes: "I resigned from Lone Star Ind. in June 1990 and

am now operating Products Engineering Co. in Cape Girardeau, Mo. manufacturing slip jackets for metal casting in the foundry industry."

### 1985

**David S. Barton**, ME, and his wife, Valerie, have a new addition to their family, Scott Joseph, born on Dave's birthday, April 20, 1991.

**Lisa Anne Engert**, EMgt, is still living in South Carolina and will be taking the professional engineering examination in October. Her present address is 326 Amy Drive, Goose Creek, SC 29445.

**Marc W. Eshelman**, CE, '85, '91, writes he and Jill Hayes were married in November 1989 and are the parents of Nicholas William, born in November 1990.

**Paul I.J. Fleischut**, MetE, is now practicing patent, trademark and copyright law (concentrated in metallurgical and chemical patent prosecution before the U.S. Patent Office) with Senniger, Powers, Leavitt and Roedel in St. Louis.

**Carl W.**, GeoE, and **Lisa (Polus)**, ME, **Greenstreet** are moving to New Zealand for two to three years. Friends may reach them through Carl's work: c/o Shell Todd Oil Service Ltd., Private Bag, New Plymouth, New Zealand. Their stateside address is: 106 Westlook Cr., Oak Ridge, TN 37830. Carl writes: "We are very psyched about moving to such a beautiful place!"

**John Lee Hampton**, ME, and Jean Ann Cochran were married April 27, 1991 in Cape Girardeau, Mo. They plan to reside in Florissant, Mo.

For news concerning **Ellen (Westerman) Hoerle**, ChE, see **Michael C. Hoerle**, ChE, '84.

**John F. Kneisler**, ChE, and Karen Ward were married in Richland, Ky.

**Dennis W. Linck**, EE, and his wife, **Deborah (Cox)**, CSci, '82, are the parents of Amy Lynn, born in July 1990.

**Catherine A. McCain**, EE, has joined the law firm of McDermott, Will and Emery. She received her law degree from the University of Chicago Law School in 1991 and plans to practice in the Litigation Department of the firm's Chicago office.

**Raymond P. Mertz**, CE, writes: "We now have two sons, Raymond Paul Jr. and James Michael. Keeping busy with friends."

**Randall D.**, EE, and **Sheila M. Olmstead's**, CSci, new address is 15732 Graham St., #1, Huntington Beach, CA 92649-1624.

**Charles F. Petersen**, M.E., and his wife, **Sharon (Mueth) Petersen**, CSci, '86, announce the birth of their first child, Deanne Nicole, born May 24, 1991. Charles is a quality engineer with the U.S. Army Aviation Systems Command in St. Louis and

### Class of 1986



**Joel Brand, David Cornell, and Martin Ohrenberg**

Sharon worked as a systems programmer at Washington University before their new arrival. They live at 3551 Charlack Ct., St. John, MO 63114.

**Anne (Oetting) Spence**, AE, writes: "I spent two weeks this summer with 25 eighth graders who are interested in engineering. Believe it or not, we actually built a working low-speed wind tunnel! The program is sponsored by NASA. I plan to take my Ph.D. orals in October. Looks like I will finish in August 1992."

**Mark R. Warnecke**, CE, and Michele J. Mans were married Jan. 12, 1991 in Kansas City, Mo. They plan to reside in Lee's Summit.

### 1986

**Suzanne (Black) Cunningham**, AE, writes: "Phil and I recently bought a brand new house built by his cousins. Phil has accepted a position with the quality assurance department of NASA. We are both very happy with our jobs. We can't describe how beautiful each shuttle launch looks and the thrill of being a part of the space program. God has truly blessed us. We both will finally be out of school by next year."

**Kevin T. Davis**, AMth, is the associate director for regulatory affairs for the Naval Nuclear Propulsion Program in Arlington, Va.

**Kevin S. Howe**, ChE, married Cathleen A. Newman July 27, 1991. Their address is 2908 E. Cotton St., Longview, TX 75602.

### 1987

**Darrell W. Angleton**, GeoE, recently transferred to the Chicago area office of Harding Lawson Associates. His new address is 1517 Fairway Drive #102, Naperville, IL 60563.

**Clinton Ballinger**, '87, was the guest speaker for a nuclear engineering program on the Rolla campus on September 18, 1991, when he talked on "Electron Transport Using the Monte Carlo Method." Dr. Ballinger is currently with General Electric in Schenectady, New York.

**Daniel J. Bock**, ME, and **Sarah Ruth Reeves**, ChE, were married June 19, 1991. They plan to live in south St. Louis County.

**Jeffrey L. Costellia**, ChE, and his wife, Mikel, announce the birth of their son, Zachary Ryan, born May 28, 1991.

**Brian K. Donley**, ChE, writes: "I got married in March and am living in Natchez, Miss. I am the process engineer at Amoco's additives plant in Natchez and have been here a little over a year. Married life is great and we look forward to returning to the St. Louis area someday."

**Glenn S. Ely**, Econ, is the manager for the Owensville (Mo.) Wal-Mart Discount City.



**Sonya F. Giesmann**, EMgt, writes: "After graduation I became a missionary with Wycliffe Bible Translators. I served for two years in Abidjan, Cote d'Ivoire, West Africa to see what it was like. I loved it, and am planning to return to Africa in 1993. I am currently going through the required training, and will be in Dallas until Christmas 1991. I may be reached via my sister at: 1310 Kentucky Ave., Hazleton, IA 50641, (319) 636-2091."

**Christopher C. Hueste**, EE, and Mary Beth Deisz were married July 5, 1991 in Bismarck, N.D. They live in Overland Park, Kan.

**Stephen M. Murphy**, ChE, is working for Woodbridge Corp. in St. Peters, Mo. as a senior process engineer. The plant makes molded polyurethane foam for automobiles.

**Jennifer L. Myers**, ME, has been selected by the Mid-South Section of the American Society of Automotive Engineers as the Outstanding Young Engineer for 1990-91.

**Steven F. Wasleski**, CSci, married Michelle Rose on May 26, 1991.

1988

**Colby E. Kinser**, CSci, writes: "Lynne and I have returned from a six month assignment in Rome, Italy with IBM. Now these Texas drivers don't seem so bad after all!"

**John B. Pautler**, MetE, writes: "My wife, **Rhonda (Yersak)**, MetE, '87, is a product assurance engineer with Westinghouse in Columbia, S.C."

**Michael C. Preston**, ChE, is working as a process design engineer in the power division of Black and Veatch in Kansas City, Mo. On March 23, 1991, he married Jenny Jory, a senior at Missouri Western State College in St. Joseph, Mo. majoring in social work.

**Timothy L. Ritter**, ME, writes: "I have recently taken a new position as maintenance project engineer for the Animal Food Ingredients Group in Springdale, Ark. at the corporate headquarters. My wife and I are currently in the process of relocating to Arkansas."

**Kenneth A. Shelton**, AE, MS EMgt, '89, was admitted to the Master of Science program in space operations at the University of Colorado at Colorado Springs. Kenneth is a first lieutenant in the U.S. Air Force.

**Lori G. Stapp**, AE, reports all is well with work (General Electric—Aircraft Engines). Lori plans to finish her master's degree in less than a year.

**Darrin L. Talley**, ME, has been named as the candidate for assignment as supervisor, engineering projects development in Bogota, Colombia for Mobil Oil Co.

**Regina (Kunzler) Topi**, MetE, writes: "ALCOA has moved us to St. Louis where I have a new job working with our customers. **Marty (Martin A. Topi)**, ME, '88) is back in

school full-time earning a master's degree in management. We'd love to hear from old friends!"

1989

**Tara (Brown) Bowman**, CSci, writes: "Tim, ME, '88, and I were married on Dec. 16, 1989. We both work at McDonnell Douglas and enjoy our jobs. We bought a home in December 1990. Our address is 9 Abby Michelle Ct., St. Peters, MO 63376."

**Timothy A. Coppinger**, CerE, and **Jane M. Ewers**, EMgt, '90, were married in May of 1991 in Jefferson City, Mo. They plan to live in Tulsa, Okla.

**Kevin**, NucE, and his wife, **Suzanna Jo Edwards**, Phys, '90, are the parents of Lara Elizabeth, born June 15, 1991.

**Christina (James) Fritsch**, Hist, is the curator of an exhibit of treasures and souvenirs gathered on the many trips made by the late Marlin Perkins. Since last winter she has been cataloging papers donated by his widow. The display was at the University of Missouri at St. Louis Thomas Jefferson Library. (This information is taken from a feature article regarding the Marlin Perkins collection of relics that appeared in the Everyday section of the St. Louis Post-Dispatch.)

**Caroline E. Hock**, EMgt, writes: "I'm still working for FRU-CON but now I'm on site at a new power plant near Fairmont. My new address is 1700 Big Tree Drive, #53, Fairmont, WV 26554. Come visit—the white water rafting is great."

**Kim E. Thein**, Psyc, MS AMth, writes: "I finished basic fighter training at Holloman AFB in August. I am now in Tampa, Florida (MacDill AFB) doing follow-up training in the F-16 and will probably go to Korea next."

**Anne L. Voyles**, Chem, writes: "I just completed my master's thesis entitled: 'Assessment of Western Wisconsin Secondary Biology Teachers' Scientific Literacy Regarding Biotechnology' and have been hired for a teaching position in 'Laura Ingallsville'."

1990

**Michael William Brunstein**, EE, and **Cynthia Jane Patterson**, also an EE, '90, were married June 1, 1991 at St. Lukes Methodist Church in St. Louis. They plan to make their home in New Orleans.

**Jason W. Carter**, MetE, graduated from Officer Candidate School (OCS) and was commissioned an ensign in the U.S. Navy. OCS is located at the Naval Education and Training Center in Newport, R.I.

**A. Chris Chiodini**, CE, is a transportation engineer for Sverdrup Corp., Central Group and is working on the design and construction management for new freeways in Los Angeles and design work for the Los Angeles Light Railway System.

**Suzanna Jo**, Phy, and her husband, **Kevin Edwards**, NucE, '89, are the parents of a baby girl, Lara Elizabeth, born June 15, 1991.

**Thomas C. Hodge**, ChE, writes: "I am currently working toward my MS and PhD in chemical engineering at Georgia Tech - hoping to complete my PhD by December 1994. I'm marching with the Tech Band and I am looking forward to another year of winning football."

**Diana L. Kolber**, EE, and **Jack A. (Andy) Gray**, EE, '90, were married Dec. 1, 1990 in Houston, Texas. They currently reside in Houston.

**Kenneth L. Light**, CE, writes: "I received my master's degree in civil and environmental engineering from the University of Wisconsin-Madison in August 1991. I am currently employed with SCS Engineers in Kansas City, Mo."

**Kenneth L. Nichols**, ME, married Juanita F. Maylee on July 20, 1991. The couple will live in Crest Hill, Ill.

**Jeffrey Paul Schuessler**, ME, and Tracy Jean Thompson were married at St. Patrick Catholic Church in Rolla June 22, 1991. The couple will reside in Moberly, Mo.

**Rodney B. Viessman**, CSci, and Cheryl Yvonne Honse were married July 27, 1991 in Vienna, Mo. They plan to reside in Cape Girardeau, Mo. Rodney is a systems engineer with Procter and Gamble.

**Brian G. Werkmeister**, EE, and Beth Ringo were married in April of 1991. They live in Maryland Heights, Mo.

1991

**Angela Renea Colin**, EMgt, and Timothy Michael Brewer were married May 18, 1991 in Perryville, Mo. She is a team manager at Procter and Gamble in Cape Girardeau, Mo.

**Michael T. Dean**, MetE, and Julie Lyn Coots were married Aug. 3, 1991 in Dexter, Mo. They plan to live in Lufkin, Texas where he works with Lufkin Industries.

**Keith A. Hansen**, CE, and Jill C. Judd were married in June 1991 in Jefferson City, Mo.

University Friends

The alumni association has received a letter from **Paul Dean Proctor**, professor emeritus of Geology and Geophysics at UMR, which states, in part: "I am currently Adjunct Professor of Geology at Brigham Young University in Provo, Utah. Two contributions in the last two years include a popularized, complete color illustrated Mineral-Rock Handbook via MacMillan Publishers. This month (August) Silver, Sinners and Saints (A History of Old Silver Reef, Utah) hit the bookshelf via Paulmar Publisher of Provo, Utah." Paul goes on to say that he corresponds with several former students at MSM-UMR and enjoys occasional visits from them.

Further, he stated he had a pleasant visit and dinner with **Mike Greeley**, GGph, '62 and that he continues to co-direct an AAPG Seminar on the Overthrust Belt of Utah with Robert Laudon and Kerry Grant of UMR's Geology-Geophysics Department.

**Bobby G. Wixson** writes: "I was elected as a Fellow of the Strom Thurmond Institute of Government and Public Affairs at Clemson University. Received the Outstanding Leadership Award from the Society of Environmental Geochemistry and Health (SEGH)."

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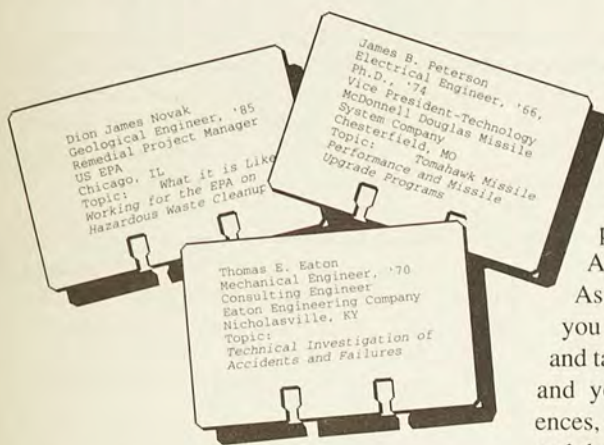
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# MSM-UMR ALUMNI SPEAKERS BUREAU



You can help us extend UMR students' learning experiences beyond the classroom and the laboratory and into the "real world" by participating in the MSM-UMR Alumni Speakers Bureau. As a participant in the bureau, you will meet with students and talk to them about your job and your professional experiences, as well as your company and the way it does business.

Since its establishment by the MSM-UMR Alumni Association, the speakers bureau has proven so popular that we need to add to the list of available speakers. This list is made available to faculty and student groups, who then select speakers for classes, group meetings and other suitable meetings.

Speaking to students can be rewarding experience for all concerned. Not only can students benefit from the practical experience and professional expertise that you share with them, but their enthusiasm and curiosity also can prove to be contagious. So help us enhance a UMR education by sharing a little of yourself with UMR's students.

Possible presentation topics include:

- Careers in all the UMR disciplines — aerospace ceramic, chemical, civil, electrical, geological, mechanical, metallurgical, mining, nuclear and petroleum engineering; engineering management; chemistry; computer science; geology and geophysics; life sciences; mathematics and statistics; physics; economics; English; history and political science; philosophy; and psychology.
- Specific technical aspects of any of the above areas.
- Career development/professional development
- Transition into management
- Sales/marketing
- International travel
- Special interests/hobbies

For the most part, participation in the MSM-UMR Alumni Speakers Bureau will be a labor of love and loyalty. Few student or departmental organizations have surplus funds available, so you will need to be willing to travel to UMR at your own expense or, possibly, in conjunction with other business you might have.

If you are interested in speaking to student group, please take a few minutes to complete the attached form and mail it to the alumni association. When you send in the form, you are not committing to speak. You retain the right to decline an invitation.

Please take this opportunity to share you experiences with the students at UMR.

Please include me in the Alumni Speakers Bureau

Name: \_\_\_\_\_  
 Degree(s): \_\_\_\_\_  
 Year(s): \_\_\_\_\_  
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 (Work): \_\_\_\_\_

Employment History (last 10 years)  
 Current Position \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Job Description: \_\_\_\_\_

Presentation topics and/or areas of specialization: \_\_\_\_\_

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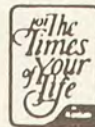
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