



## Missouri S&T Magazine, April 1982

Miner Alumni Association

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# **m s m** *Alumnus*



**University of Missouri-Rolla**

**April, 1982**



## Alumnus

MSM-UMR Alumni Association  
University of Missouri-Rolla  
Rolla, Missouri

Volume 56  
Number 2  
April, 1982

## On The Cover



Winners of the leprechaun look-alike contests for male and female were Tom Brady, freshman in computer science from Chesterfield (representing Alpha Epsilon Pi) and Lori Almeling, sophomore in computer science from Kansas City (representing Beta Sigma Psi Little Sisters). Lori was also St. Pat's Queen candidate, nominated by Delta Tau Delta fraternity. The photo was taken by Suzi Alexander, Rolla Daily News.

## MSM ALUMNUS (USPS-323-500)

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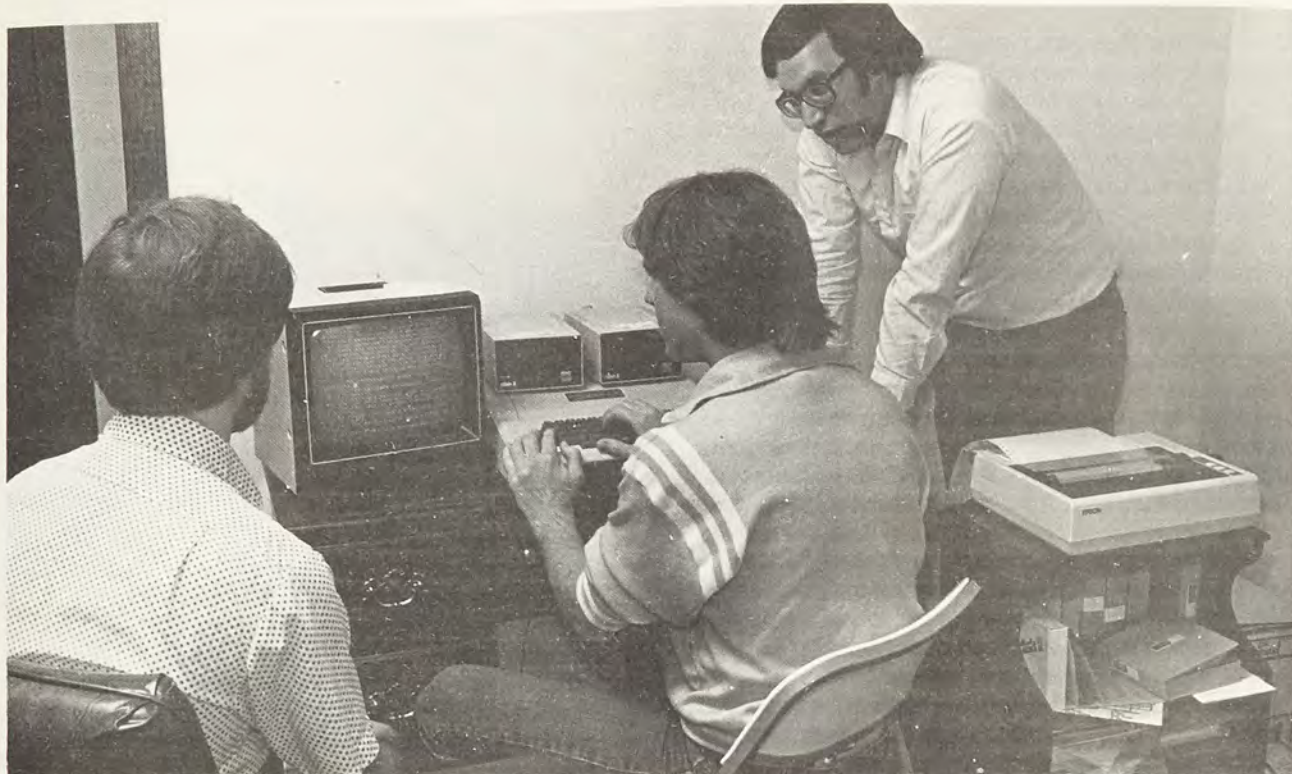
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Dr. Kenneth Magel, right, shows Roger Grimm, center, graduate student in computer science from Springfield, Mo., and Daniel Denise, left, junior in computer science from Lake Tapawingo, Mo., how the home computer can be used to compose a letter.

## Microcomputers In Your Future

By 1990 microcomputers will be as common as television sets in American homes, and, according to Dr. Kenneth C. Magel, this home computing capability will transform the way we live and work.

"The field of personal computers is on the verge of incredible growth," Magel, an assistant professor of computer science at UMR, said. "Five-hundred thousand homes in this country already have at least one microcomputer, and the number in use in business is about 10 times that in the home."

"Forty percent of these systems that have been bought to date were purchased in the first nine months of this year," he added. "In addition, 50 percent of all microcomputers purchased for the home will be bought in 1982."

Size, cost and relative ease of use are some of the factors that are contributing to the increasing popularity of these computer systems.

"A typical personal computer can fit on a small table or desk top, and systems can cost anywhere from \$250 to

\$2,000," Magel said. "They also have fairly large memories and use relatively simple programming languages."

"You can use your own television set as a video-display terminal," he added, "and because you interact with the computer through a typewriter keyboard, these systems are a good deal easier to operate than the larger ones."

Equally important to the appeal of these personal systems is the fact that they can be used for an almost unlimited number of tasks.

"Computer games have been popular for several years and they're becoming more complex and educational," Magel said. "You also can learn a foreign language or study any number of subjects through your system."

"Microcomputers also can be used to organize household lists or to solve financial problems as simple as balancing a checkbook or as complicated as figuring the rate of return on investments," he added. "In addition, they can be programmed to control the temperature or the amount of energy used in your home."





"The field of personal computers is on the verge of incredible growth," says Magel, assistant professor of computer science. He expects this home computing capability to transform the way we live and work.

These systems also can make a world of information available to their users.

"You'll have access to cultural events such as plays and concerts," Magel said. "You'll also be able to see what's happening in the stock market almost as soon as it happens, read newspapers from throughout the country and order merchandise from a catalog. Several companies are even working on two-way communications systems using microcomputers."

Your system also will be a help to you even when you're going to be out of your home.

"If you're planning a trip," Magel said, "You can find out what the weather and restaurants will be like along the way and at your destination."

The choice as to how complex you want your system to be is up to you.

"You can get a system that already has been programmed to perform specific tasks or you can program it yourself," Magel explained. "If you choose to do your own programming, you're limited in what you can do only by your imagination and the computing power of your system."

"But should you need to do something that is beyond the scope of your system," he continued, "you can gain access

to a larger, more powerful system through a telephone hook-up."

All of this, Magel believes, will have a considerable effect upon American society.

"People will have more of what they used to go out for available to them in the home," he said. "As a result, the home may regain its traditional role as the center of family life."

"In a sense," he continued, "the microcomputer may be responsible for bringing the American family back together."

The impact of these small computer systems will be just as great on the American workplace.

"Twenty-thousand people already are working in their homes because of personal computers," Magel said, "and the number will continue to increase."

"In fact," he added, "about 10 percent of the total white-collar work force in this country will be working out of the home by 1990."

And it's easy to see why. "With a microcomputer," Magel said, "you can, among other things, do business analyses, financial modeling programs and layout and design work—and at a considerably lower cost than with a large computer system."



# A Study of Nature's Air Conditioning

If you have been in a cave or a mine, you have probably noticed that temperatures underground are far more stable than temperatures on the surface of the earth. Rocks and earth store energy in the form of heat and they do it slowly. It takes a long time for rocks or large quantities of soil to either heat up or get colder.

A mining engineer and geological engineer from UMR are doing research on taking advantage of this energy stored by nature. Dr. Stewart Gillies, assistant professor of mining, and Dr. Dale Elifrits, assistant professor of geological engineering at UMR, are looking for the best way to bring air which maintains a constant temperature underground to homes and industries.

"If the air coming into homes or buildings were always about 50° to 60°, it would take much less energy to heat it up or cool it down than it would if the air ranged from 0° to 100° temperatures—typical of surface air here in the Midwest," says Dr. Elifrits. "We think there is a practical way to do this. Then if you use this air in conjunction with a heat pump, you will have a most efficient air heating and cooling system for a minimum cost."

The objective of the research project is to study the most effective method of allowing nature to condition the surface air by use of an earth tube or tunnel before the air is introduced into a building. The earth tube is a pipe of certain size and length buried beneath at least two feet of earth. There is an air intake opening at one end and a fan at the other end to move the air. Soil or rocks surrounding the pipe will heat or cool from surface air and, depending on size and length of the pipe and speed of air movement, will change the temperature of the air before it moves out of the tube.

Using both graduate and undergraduate students as part

of their research team, Drs. Gillies and Elifrits are measuring such factors as airway length, cross-section dimensions, rock thermal conductivity, thermal capacity and temperature, air velocity and relative humidity at UMR's experimental mine.

"Rock tunnels and earth tubes have similar properties of insulation and heat exchange," explains Dr. Gillies. "We have already conducted a series of experiments in an extended period of sub-zero weather during the semester break in early January. We will conduct more experiments during the hot summer weather. We should be able to obtain a wide range of data to develop our recommendations as to the best size, length and depth for the earth tubes."

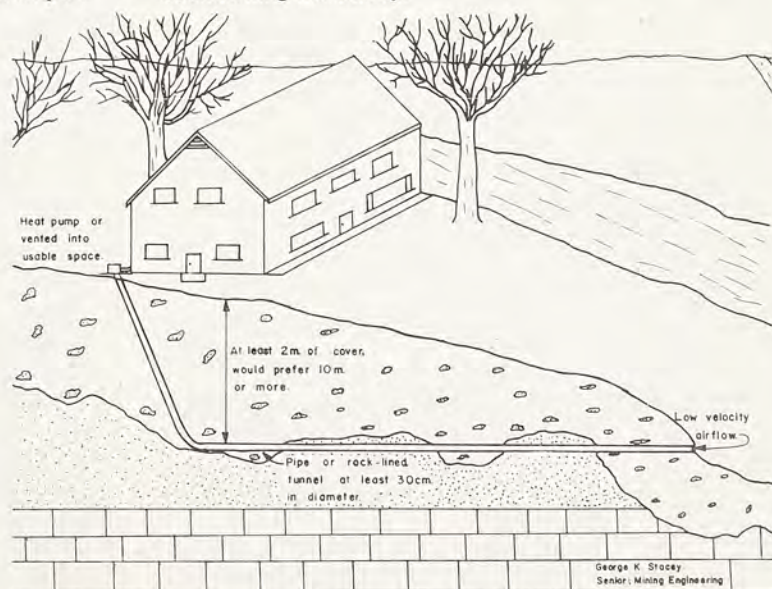
When research at the experimental mine is completed and conclusions are drawn from the data, the research team will compare results with a conditioning system installed at a Rolla residence which already has an earth tube and heat pump.

"We will be able to verify our conclusions with the results obtained by this particular system," Dr. Elifrits says. "We may even be able to recommend some improvements."

The research project is being made possible through a grant from the University of Missouri Weldon Spring Endowment Research Fund.

Dr. Gillies plans to use the results of this study in the work he does with mine ventilation problems. "The same principles we are studying for this project pertain to problems some mines have with the creation of fog in underground areas," he says.

Dr. Elifrits will continue work on the project with faculty and research teams in UMR's mechanical and aerospace engineering department who study various types of air conditioning machinery.







Dr. Rodney Lentz

## Safe Disposal Of Toxic Wastes

Until contamination from Love Canal chemical waste dump came to national attention in 1978, most people were content to keep toxic wastes out of sight--and out of mind, according to Dr. Rodney Lentz of UMR.

Now, he says, toxic wastes and the potential poisoning of the nation's earth and groundwater have surfaced as major environmental concerns of the 1980's, and engineers and scientists are making renewed efforts to find ways to dispose of them safely.

Lentz, an assistant professor of civil engineering, is studying clay soils used in landfills for chemical wastes.

"Part of the problem is the huge volume of chemical wastes," he says. "The Environmental Protection Agency estimates that the United States is generating more than 77 billion pounds of hazardous chemical wastes a year--and that only about 10 percent is handled safely."

"For a long time, the accepted way to dispose of chemical wastes was simply to contain them in steel drums and dump them in the nearest available pit. In many cases we don't know where the dumps are located, what chemicals are involved, or how well they are contained until they cause trouble," he adds.

Today's technology for hazardous waste disposal is much more sophisticated, but so are the wastes. And new troubles

are emerging in the attempt to come up with a "secure" landfill.

"The main objective of a 'secure' landfill is to keep toxic wastes from escaping into the surrounding ground and water," Lentz explains. "Typically a landfill is lined with several feet of compacted clay of low permeability, which keeps fluids contained. Now researchers are finding that these clay liners may be vulnerable to the effects of certain chemicals which can make them crack or become highly permeable."

Lentz says that the effects of chemicals on clay are not well understood.

"There hasn't been much research on the subject because most landfills 'just grew' from city dumps. But the old city dump idea 'out of sight, out of mind' won't work in today's complex field of toxic waste disposal," he adds. "It had always been assumed that clay was inert, but we now are learning that it may not be."

Some of the chemicals that may cause trouble are strong caustics and solvents. When experimental caustic compounds were mixed into soil to stabilize its mineralogical make-up, it was found that the process significantly increased the soil's permeability, decreasing its ability to hold fluids. And in laboratory tests, some solvents--benzene, xylene, carbon tetrachloride, trichloroethylene, acetone and glycerol--caused clay to shrink and crack.

"This cracking in a waste dump would allow escape of the materials the clay is supposed to contain. And, besides the caustics and solvents, there are other unpredictable organic chemical compounds that may have an effect," Lentz adds.

That's where Lentz's research comes in. Under a grant from the University of Missouri Weldon Spring Endowment Research Fund, he and graduate student, Bill Horst, are studying the effects of various chemicals on clay used for hazardous waste containment, identifying the most critical chemicals and the properties of clay most likely to be affected.

After troublesome chemicals and the problems they are likely to cause in clay are identified, Lentz and Horst plan to develop tests that will indicate the potential for changes in the volume and permeability of clay in the presence of chemicals. Eventually they hope the work will grow into a full-scale research project that will help in setting guidelines that can be used by designers and agencies which license hazardous waste disposal facilities.

"Ideally in the future, many of the wastes will receive pre-disposal treatment, but some chemical wastes will probably always need to be securely buried," Lentz said.

Many states--including Missouri--now have laws providing for the safe disposal of hazardous wastes. They are in the process of setting standards, but, as yet, there really isn't enough technical information to make these standards completely definitive. We're hoping that our research will provide significant input in understanding what effects chemicals have on clay so that guidelines for design and design evaluation can be made most effectively," he said.



## UMR Project Helps Handicapped

People helping other people develop their abilities and realize their potential on the job is what UMR's WISH (Work Improvement for the Severely Handicapped) Project is all about, according to Dr. Yildirim Omurtag, project director.

Funded through the South Central Regional Center for the Deaf/Blind in Dallas, the project can make the expertise of UMR's engineering management department available to Missouri's sheltered workshops and training centers for the handicapped at no charge.

"We offer engineering management and design assistance to enhance the productivity and employability of individuals with multiple or severe handicaps," Omurtag, a professor of engineering management, said.

"The work we do also aids in training them for other jobs," he added.

And it's work that is its own reward for the UMR faculty and students associated with the project.

"In terms of satisfaction," Omurtag said, "the payoff is large. It's a valuable learning experience for our students in a number of ways."

"It's gratifying to go back to some of these facilities and see the progress that has been made," he continued. "Self-esteem seems to increase along with productivity."

"The people at the workshop are some of the most cooperative and helpful I've ever had the opportunity to work with. Without a doubt, they are some of the most receptive and dedicated persons in management today."

"They're very willing to try things," he added. "You simply have to suggest something, and before you know it, they're doing it."

The WISH project grew out of a desire on the part of the engineering management department to extend its previous involvement with some of Missouri's 70 sheltered workshops to more severely handicapped individuals.

"We designed the project in three stages," Omurtag explained. "The first was proof of concept, the second was field testing and third was expansion of the program to reach as many people as possible."

One of the first individuals to benefit from the project was a 25-year-old woman who had been deaf and blind since birth. "She was involved in a faucet assembly operation," Omurtag said. "The job required putting together 15 different pieces and was quite complicated."

UMR students studied the problem and then devised a system and work layout for the operation that made it more efficient and helped the assembler become more productive.

The vertical bin system that was being used was replaced by a bin arrangement which opened toward the assembler



Dr. Yildirim Omurtag

to aid with accessibility. The pieces were arranged in the bins in a logical order to make assembly more efficient. A fixture to hold the main parts during assembly also was added.

"The new method allowed the assembler to sit down while working, thus reducing the fatigue factor," Omurtag said. "The addition of the fixture also freed the hand she had previously used to hold the parts during assembly."

"The new bin arrangement made the assembly process more organized," he added. "And it also helped prevent the dropping of pieces."

The new arrangement proved to be an unqualified success. For by employing the system that the students had worked out the assembler was able to do her job much faster than she previously had. "In fact," Omurtag, "she increased her production by about 75 percent."

As for conclusions, there was only one. "We found that the assembler was capable of functioning at the same level as a regular employee despite her handicaps," Omurtag said.

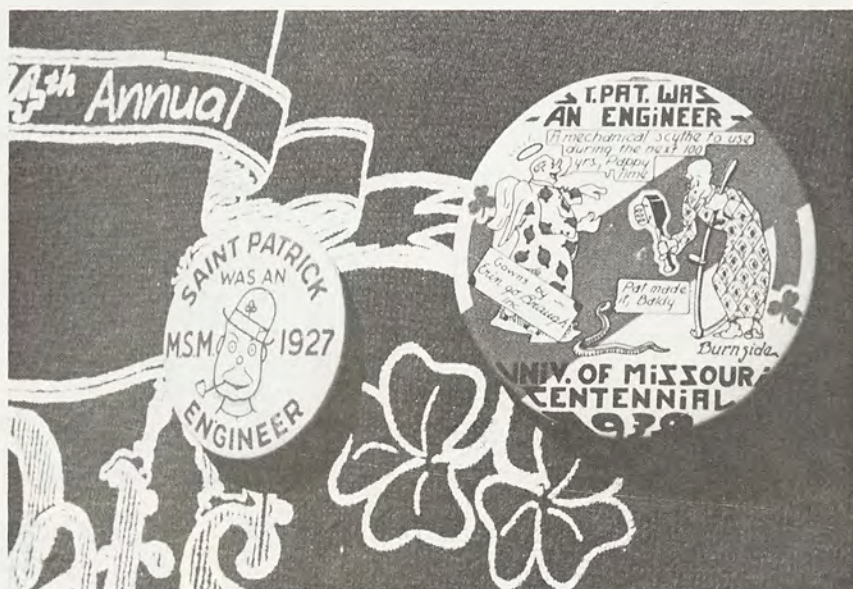




# 1982 St. Pat's

The 1982 St. Pat's celebration, March 18-20, began long before that date and built up to another year of "best ever" festivities. Unseasonably nice weather at the beginning of celebration week induced a great deal of participation in the St. Pat Follies events March 15-17. Crowds gathered on the mall during the noon hour to participate in and watch the various contests held to get everyone in the spirit of the occasion. Grass on the mall received its annual rude awakening as freshmen used their shillelaghs to kill snakes to prepare the way for St. Pat's visit. There were some really artistic shillelaghs this year. Winner of the shillelagh contest was Jim Homfeld of Sigma Tau Gamma (see detail at left).





Greg Lynch, Pi Kappa Alpha, was winner of the oldest button contest (1927).

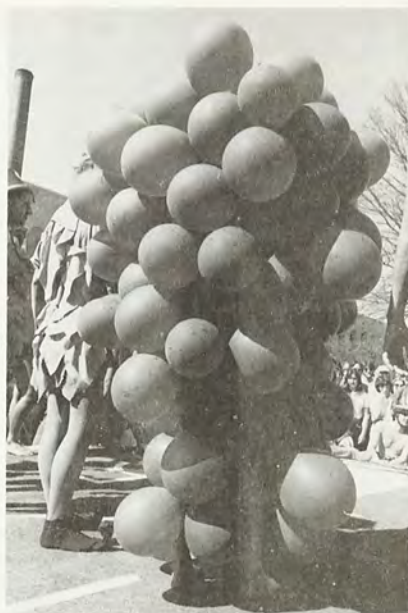


Contestants line up for the Clydesdale Look-alike contest. Winner was Brian Lightbody, Triangle, **third** from left.





Most buttons on sweatshirt



"Green person" contestant



Another "green person"



Carving is more elaborate each year



The traditional cudgel carry at the St. Pat's Games



## Honorary Knights



Leonard Koederitz, '68, Rolla  
Professor of petroleum engineering.  
UMR



James B. Malloy, New Cannan, Conn.  
President and CEO, Alton Packaging Corp. and Smurfit Industries, Inc. (Jefferson Smurfit Group, Ltd., Dublin, Ireland).



Mrs. Joseph M. (Louise) Marchello, Rolla



Dr. Thomas Murphy, Dublin, Ireland  
President, University College Dublin

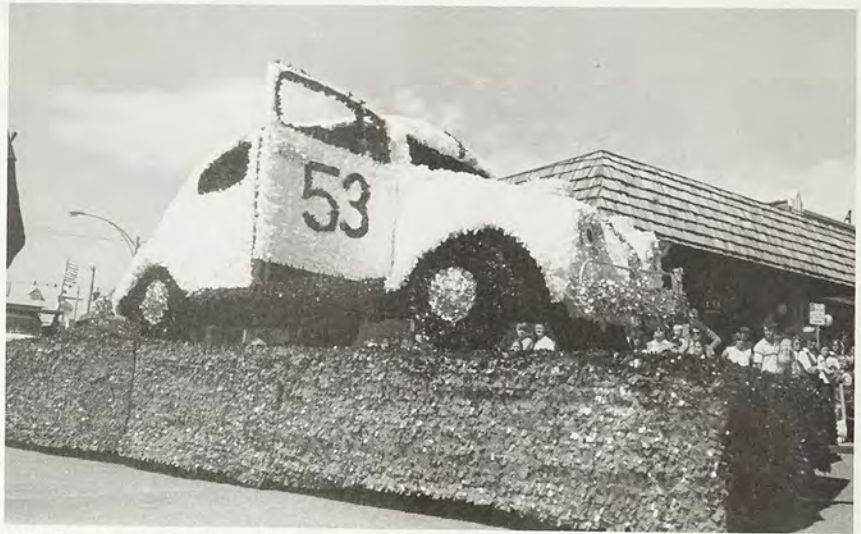


Al Nilges, Bourbon  
Missouri General Assembly, District 126 Representative



David Simily, Rolla  
Owner, Dave's Barber Shop





"Herbie the Love Bug" by Sigma Pi, flapped doors and hood



Members of Zeta Tau Alpha performed a "sound-off" routine with mops



Beta Sigma Psi's Dumbo used his trunk to spray a little water to cool down the crowd





# Parade Highlights



Sigma Tau Gamma visited Disney World in the Emerald Isle

The theme of this year's parade was St. Pat and the Wonderful World of Disney. And a special attraction was participation by the Clydesdales. The parade lasted a good hour and a half and the crowd was the largest ever-estimated at 25 to 30 thousand people. Sig Pi won the prize for the best float--"Herbie the Love Bug."



Kappa Sig's Pluto just happened to dig up a couple of kegs



The world-famous Anheuser-Busch Clydesdales were a special event of this year's parade





## St. Pat and Queen

St. Pat this year was Michael Avery, St. Louis, senior in petroleum engineering and a member of Beta Sigma Psi. The Queen of Love and Beauty for 1982 was Dana Stricker, New York City, a freshman in electrical engineering who was nominated by Thomas Jefferson Residence Hall.

At the coronation ceremonies, Missouri Secretary of State James Kirkpatrick assisted St. Pat with his knighting duties. Others involved in the ritual were flower girl Patrica Myers, daughter of Dr. and Mrs. Donald Myers, '61, Rolla; ring bearer Benjamin McDaniel, son of Dr. and Mrs. Robert McDaniel, '74, Decatur, Ill.; and pages Stacy Pottinger, daughter of Dr. and Mrs. Hardy Pottinger, Rolla, '66, and Melissa Montgomery, daughter of Drs. Robert and Dee Haemmerlie Montgomery, Rolla



Warm, sunny days make judging contests an easier task



Willing hands provide the power to transport St. Pat and his court



# From The Past



The first S. Pat--"Gawge" Menifee--with train bearers, Allen and Jones. 1908.

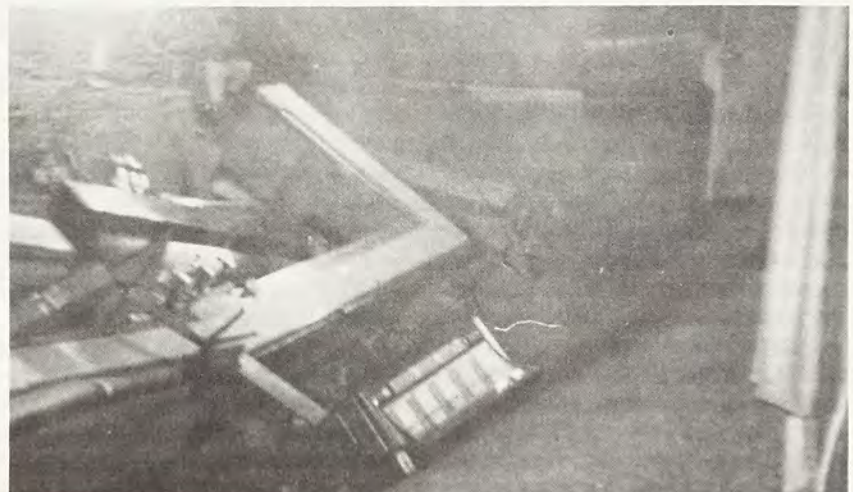
James M. Medlin, '67, was on campus last fall to present a check from Gulf Oil Co. to the geology department. He happened to mention that he had been on hand at the St. Pat's celebration in 1967 when the floor under the bar at Moutray's collapsed. "I will never forget seeing the juke box (center photo on right (on my roommate's back with his date between him and the bar.) Jim and his wife-to-be were perched on the fireplace ledge watching St. Pat make the first green beer toast after arriving on the railroad handcar. They heard a loud snap and the bar, people and beer slowly sank to the basement. Fortunately, no one was hurt and Jim got this picture after everyone had climbed out. It will become a part of the St. Pat's archives.



The first planned St. Pat's parade in 1909.

Herman A. Fritschen, '51, former MSM-UMR Alumni Association director and active member of the Tulsa section, sent us several reproductions of photographs from an album belonging to R. B. Mitchell, Class of 1911. Among the pictures he sent were those above and left. We are grateful for Herm's thoughtfulness in providing this material. They will not only be used in the *Alumnus*, but will also become part of the St. Pat's archives, the UMR archives and some may be used in the new history of UMR now being written by professors Lawrence Christensen and Jack Ridley.

R. B. Mitchell received his degree in mining and was dean of the Oklahoma School of Mines in Wilburton, Okla., from 1926 until that institution became the Eastern Oklahoma College, which he continued to serve as dean until his retirement.



The floor collapsed at Moutray's bar in 1967 when St. Pat was celebrating his arrival by tapping the green beer keg.



# Alumni Section News

## Northwest Section - Spokane

Traditions have to start sometime and now is as good a time as any. That must have been the reasoning of the 14 MSM-UMR alumni and their guests who started a modern tradition at the "First Annual Traditional MSM Alumni Breakfast and Champagne Sip" held Dec. 4, 1981 in Spokane, Wash.

The gathering, held in conjunction with the Northwest Mining Association meeting in Spokane, was organized by Dale Hirschfeld, '51, and Glenn Fritz,

'47. Those attending had so much fun that they decided to make the "Sip" an annual event. They even prevailed upon Vic Hoffmann, '60, to provide photographic support for future meetings.

How's that for a fine way to start a new tradition?

Alumni present were: Bettijeane Birch Puffett, '49, Denver, Colo.; Glenn H. Fritz, '47, Spokane, Wash.; Chuck Turley, '75, Spokane, Wash.; Kor

Uyetake, '45, Salt Lake City, Utah; Don Kennedy, '57, Ennis, Mont.; Vic Hoffmann, '60, Seattle, Wash.; Ray Lasmanis, '63, Vancouver, B.C.; John Donnelly, '70, Portland, Ore.; Jon Langstaff, '59, Wallace, Idaho; Anita Williams, '70, Anchorage, Alaska; Dale Hirschfeld, '51, Spokane, Wash.; Mr. and Mrs. William Weigerl, '20, Lexington, Ky.; Greg and Lou Frank, '77, Fairbanks, Alaska; and Erden Yuksel, '70, Spokane, Wash.

## Detroit Section

Detroit area alumni met Feb. 21, at the Dearborn Inn, in conjunction with the national Society of Automotive Engineers Automotive Engineering Congress and Exposition. Eighteen attended the meeting. (Several of the usual attendees were on extended assignments out of town.)

Dr. R. T. Johnson, professor of mechanical engineering at UMR, presented the program. The early part of

the slide presentation featured nostalgia on the SAE student chapter and campus activities from 1966 to date--and included many faces of Detroit section alumni. In the latter portion of the program, Dr. Johnson described UMR's activities in the CAD/CAM and robotics areas and current plans for enrollment management as one of several UMR efforts to maintain the quality of the product (graduates).

"Since our past graduates have gone out and established such a good reputation, we feel an obligation to insure that the current graduates will live up to that reputation," Johnson told the group.

New officers of the Detroit section, elected at the meeting, are: president, Ron Baker, '78, with Chrysler Corp.; and vice president, Roberta Hoedl, '79, General Motors Corp.--Chevrolet Division.

## SME-AIME Meeting - Dallas

There is no truth to the rumor that J. R. Ewing was recently awarded a UMR professional degree for his life accomplishments in the field of petroleum engineering. However, if the grinning Texan had been in Dallas' Hyatt Regency Hotel Feb. 15, he probably would have felt right at home with the 61 alumni, UMR faculty and guests gathered at a special cocktail party during the SME-AIME meeting taking place there.

Former Miners from all across the country were at the meeting, and after the final conference of the day they showed the Texas longhorns and longnecks how Joe Miner has a good time. The UMR function, sponsored by the MSM-UMR Alumni Association and hosted by Larry Allen, the new

assistant director of that organization, turned out to be the highlight of the conference for many of the attendees.

Alumni and others connected with UMR attending the party were:

Victor Hoffmann, '60, Kent, Wash.; Bob Deffenbach, '39, Somerville, Ohio; Fred Todd, '48, Fullerton, Calif.; P. Russell Dessieux, '56, Potosi, Mo.; John J. Ronan Jr., '80, Garland, Texas; Phil Leighly, professor, metallurgical engineering; Robert P. Schafer, '52, Dallas, Texas; John L. Watson, associate professor, metallurgical engineering; Dianna Tickner, '79, Dallas, Texas; Don Warner, dean, School of Mines and Metallurgy; Kuldip ('61) and Kathleen Chopra, Grand Island, Neb.; Steven Wilson, '72, Carrollton, Texas; Richard ('47) and Bev Cole, Rich-

mond, Va.; Mark Brown, '76, Plano, Texas; Randall J. Tomic, '79, Garland, Texas; Bob Reynolds, '70, Plano, Texas; Edmond Koch, '63, Plano, Texas; Dick Bullock, '51, Houston, Texas; John F. Burst, '43, Pittsburgh, Pa.; David M. Leet, '81, Crown Point, Ind.; James A. Mulligan, '72, Richardson, Texas; Harry Weart, chairman, metallurgical and nuclear engineering; Louis Toth Jr., '70, Edison, N.J.; Charles A. Sorrell, professor, ceramics engineering; Keith Sheehan, '51, Plano, Texas; Charles Beckman, '51, Grand Rapids, Mich.; Robert L. Wade, '71, Plano, Texas; Dennis F. Jaggi, '70, Dallas, Texas; Melvin ('38) and Mary Lou Nickel, Chicago, Ill.; Austin Boyd, '72, Oklahoma City, Okla.; Larry ('58) and Sandra Miller, Palatine, Ill.; Colin Rose,



'40, Galesburg, Ill.; Henry P. Whaley, '48, Broadview Heights, Ohio; Harold T. Staves, '56, Katy, Texas; Rolin L. Geronson, '78, Dallas, Texas; Kenneth L. Myers, '75, Colorado Springs, Colo.; Duk-Won Park, '75, Northport, Ala.; Pete Conroy, '73, Elmhurst, Ill.; David

Weiss, '70, Golden, Colo.; Gill Montgomery, '35, Eldorado, Ill.; Eugene Lindsey, '51, Englewood, Colo.; Richard L. Ash, professor, chairman, mining engineering; Leonard Keller, '55, Dallas, Texas; Alex Aning, student UMR; Doug Marquart, student UMR;

Scott Zimmer, student UMR; Craig Johnson, student UMR; John Stucker, '71, Tulsa, Okla.; Art Morris, professor, metallurgical engineering; Ernie Spokes, professor, mining engineering; Tom O'Keefe, professor, metallurgical engineering; Stewart Gillies, assistant professor, mining engineering.

## Extension News

Here's a list of some of the extension continuing education short courses and conferences scheduled by UMR. Where titles are not self explanatory you may call for more detailed information including costs. Call the office of the Dean of Continuing Education and Public Service, 314-341-4156. Written requests should be addressed to the same office, 210 Parker Hall, University of Missouri-Rolla, Rolla, Mo. 65401.

### PROGRAM

#### School of Mines and Metallurgy

Metallurgical Failure Analysis for the Legal Profession  
Geotechnical Analysis for Rock Engineering  
Technology Transfer, Mining Machines  
Petroleum Engineering, The State of the Art  
Field Geology: Utah Overthrust Belt

#### School of Engineering

Heating, Ventilating & Air Conditioning Systems:  
Sizing and Design

Heating, Ventilating & Air Conditioning Systems:  
Sizing and Design

Petroleum Engineering Refresher Course

Introduction to Microprocessors

\*Engineering in International Environments

\*\*Integrated Computer-Aided Design,  
Analysis and Manufacturing

#### College of Arts & Sciences

How To Do Graphics on a Microcomputer

How To Do Graphics on a Microcomputer

Estimating for Painting Contractors and Maintenance Engineers

Basic Microcomputer Programming for Coatings

6th International Symposium of Physics on Chemistry & Ice

### DATES

May 17-19

May 17-20

May 26-27

June 1-July 24

Aug. 8-14

May 10-11

May 13-14

May 11-29

May 19-21

July 21-23

Aug. 9-13

May 11-13

May 17-19

May 18-20

May 24-27

Aug. 2-6

### LOCATION

Rolla

St. Louis

Pittsburgh, Pa.

St. Louis

Cedar City, Utah

St. Louis

Kansas City

St. Louis

Rolla

St. Louis

Rolla

Springfield

Kansas City

San Mateo, Calif.

Rolla

Rolla

\* A cross-cultural training program for engineers (and their spouses) who are working, or anticipate working, in an international environment.

\*\* An introduction to CAD/CAM and robotics with four days of hands-on experience for engineers and an optional day of program overview for managers.

Times and dates of courses may change nearer to the time of the course.



# Honors Week at UMR

The University of Missouri-Rolla's first Honors Week, March 1-5, featured a series of special lectures, a personal appearance by an independent filmmaker, an Honors Week Banquet and honor society initiations.

"The Campus Honors Committee felt that, given the role of the university in modern society, it would be appropriate to set aside a special time to recognize and focus on scholarship—both teaching and research," said UMR Provost Tomlison Fort Jr., who chaired the Honors Committee.

"In preparing the program," he added, "we sought to schedule events that would be of general interest and which would also represent various disciplines and point out the interplay between engineering, science and the liberal arts."

Dr. Rosemary Hyde Thomas, professor of English at St. Louis Community College-Meramec, began the week with a lecture titled "It's Good to Tell You," Monday, March 1.

In her lecture, Dr. Thomas discussed how she collected and translated stories derived from traditional French folktales in the area around Old Mines, Mo. This area of Missouri was settled in the early 1700's and remained French-speaking until the middle of this century, she said.

On Tuesday, March 2, Dr. Thomas R. Faucett, UMR professor of mechanical and aerospace engineering, spoke about "CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) Technology in Education and Industry."

Dr. Faucett's talk dealt with the impact of new and rapidly developing computer-assisted design and manufacturing technology upon productivity, product quality and product cost.

Wednesday of Honors Week (March 3) offered a program titled "Boiled Shoes and Low-Down Blues: Filmmaker Les Blank." The program featured a personal appearance by Blank, who discussed his movies and the film "A Well Spent Life," his tribute to blues guitarist Mance Lipscomb.

Thursday, March 4, Dr. Robert Schofield, head and professor of the history of technology and science at Iowa State University, discussed "Joseph Priestly: Theology, Physics and Metaphysics." Priestly, who lived from 1733-1804, discovered oxygen.

In his lecture, Dr. Schofield argued that science and theology were inseparable in Priestly's mind during the time in which he was doing his work in chemistry. He also explored the metaphysics that Priestly developed to reconcile these two different strands of thought.

On Thursday evening Dr. Stig Friberg, UMR's Curators' Professor of Chemistry, delivered an address at the Honors Week Banquet. Dr. Friberg's talk examined "Liquid Crystals: Order, A Question of Life and Death."

Dr. Friberg's address explored the structure of liquid crystals as they exhibit mobility and order, two characteristics usually associated with living systems.

Also on Thursday, Phi Eta Sigma and

Phi Kappa Phi honor societies held initiation ceremonies.

Honors Week concluded with a lecture by Dr. Schofield on "Artistic Themes and Literary Paradigms: The Cultural Content of Science," Friday, March 5.

The talk explored how the application of several of the concepts of the cultural historian to the history of science apparently makes it possible to designate style periods for science similar to those used for the plastic arts, music and literature. Once this is done, Dr. Schofield maintained, it becomes clear that science is one of the most imaginative of man's creative activities.

Honors Week at UMR is coordinated by the Campus Honors Committee. In addition to Dr. Fort, the committee's members are: Dr. Ronald Fannin, assistant dean of the UMR School of Engineering; Dr. Wayne C. Cogell, associate dean of the UMR College of Arts and Sciences; and Dr. G. Edwin Lorey, dean of UMR Continuing Education and Public Service.

## Meeting Data

EVENT/SITE	DATE
TULSA SECTION.....	May 1
Utica 21 Club, Tulsa	
REUNION FOR CLASS OF 1932.....	May 15
Rolla	
COMMENCEMENT.....	May 16
Rolla	
ARK-LA-TEX SECTION.....	May 22
Jefferson, Texas-Home of David and Florence Flash	
ROCKY MOUNTAIN SECTION.....	June 19
Coors Brewery, Golden	
MSM-UMR BOARD MEETING.....	October 1
Rolla	
HOMECOMING.....	October 1-2
Rolla	
MSM-UMR ALUMNI ASSOCIATION ANNUAL MEETING.....	Oct. 2
Rolla	
ROCKY MOUNTAIN LUNCH.....	First Tuesday
Denver Petroleum Club	



## Computer Terminals Available In Dormitories

Residents of some of the dormitories at UMR now have access to computer terminals without having to leave their residence halls.

Three video-display terminals have been installed in UMR's Thomas Jefferson Residence Hall (TJ) and became fully operational March 15. Three additional terminals will be installed in Altman Hall and the Quad Complex later in the semester.

"We initiated this pilot program in response to student requests for additional access to computer terminals," said David Crain, Auxiliary Services accountant and program coordinator. "If the program proves successful this semester, we hope to expand it in the fall to include more terminals and buildings."

The terminals will allow students to work with CMS (Conversational Monitor System) local and CMS network. The terminals also will provide students with access to the University of Missouri Computer Network in Columbia.

For the remainder of this semester use of the terminals will be limited to those students who live in TJ or the Quad. Access to the terminals will be through a sign-in/sign-out procedure. Students will be issued a key to the terminal room in exchange for the deposit of a valid UMR identification card. The terminals will be available 24 hours a day.

Users will be billed monthly, beginning March 15, based upon the amount of time recorded on the check-out sheet. The charge for use of the terminals will be \$1 per hour.

When demand for the terminals is high, users will be issued passes for predesignated time periods, and the number of hours that any one person may reserve a terminal will be limited. This procedure will be further developed as needs dictate, Crain said.



## SME "Joe Miner" Belt Buckle Still Available

The UMR Student Chapter of the Society of Mining Engineers is offering for sale to alumni our belt buckle.

Proceeds from the buckle sales will enable SME to participate in a variety of activities including field trips, honor banquets, special projects & our bi-annual outing.

We want to thank all of our patrons for their generosity.

Orders and checks for six dollars made payable to the Society of Mining Engineers should be mailed to Jim Stratton, 110 Mining Bldg.-UMR, Rolla, MO 65401.

Please ship \_\_\_\_\_ buckles at \$6.00 each. Enclosed find a check for \$\_\_\_\_\_.

Name \_\_\_\_\_

Address \_\_\_\_\_

The installation and operation of the terminals is a cooperative project of the UMR Department of Auxiliary Services, the UMR Computer Center and the UMR computer science department.

## Help For Girl Scouts

Phi Kappa Theta fraternity and Kappa Delta sorority at UMR recently donated their time and labor to help make improvements on the Rolla Girl Scout Program Center on Highway 63 South.

The fraternity and sorority members spent about 12 hours doing construction-type work on the building, which included studding walls, dry wall and electrical work, adding insulation and dropping a ceiling.

The work was done to help area Girl Scouts celebrate Girl Scouts Week, March 7-13.

## Eta Kappa Nu Receives National Award

The University of Missouri-Rolla student chapter of Eta Kappa Nu, electrical engineering honor society, has been voted the national winner of the Outstanding Chapter-Activities Award for the 1980-81 academic year.

The group will receive an engraved silver award plaque.

The chapter has been honored numerous times previously. Among their activities during 1980-81 were: a "phonathon" to electrical engineering alumni and updating of alumni records; fund-raising projects; administering an electrical engineering hobby club; providing a stage crew and lighting for the Phelps County Junior Miss Contest; sponsoring an electrical engineering career day; and providing guides for University Day and Parents Day.



# MINER SPORTS

## Gene Green, Editor

### Miners Ink 16 Gridders

Sixteen prep football players signed national letters of intent to play football at the University of Missouri-Rolla. The announcement was made in February by UMR head football coach Charlie Finley.

"I think we had a very good recruiting year," Finley said. "We have some outstanding prospects who have shown the versatility and ability as prepsters to do a good job in the MIAA."

Finley said he was also very pleased with the recruiting procedures regarding the use of the national letter of intent.

"It was our first year using the system, but I think it will be very helpful to us," he said. "Once you sign a player to the letter, he is bound to your institution. It basically keeps another school from coming along later and taking the player away from you."

The Miner recruits are:

**Ed Beechner**, 6-2, 228, tackle-guard from Rolla (Mo.) High School. "We feel he is one of the outstanding linemen in the state," Finley said. "He should really help us at the guard position and turn into a quality college performer."

**Tim Carter**, 6-4, 195, tight end-linebacker from Salem (Mo.) High School. "Tim played his prep football at Miami, Ariz., before his family moved back to Salem. He is a fine athlete and is currently a starter on the Salem High School basketball team."

**Keenan Curry**, 5-10, 180, running back from Kirkwood (Mo.) High School. "An excellent runner and blocker, Keenan could be a very good running back in the MIAA. He is a former teammate of Miner running back Randy Shed and has the same explosive quickness and ability that Randy possesses."

**Scott Alan Finke**, 6-2, 170, linebacker from East Alton (Ill.) Roxana High School. "Scott was an All-Metro selection and has super movement and versatility. He was also a track per-

former in high school and can pole vault 15 feet."

**Bob Gorham**, 6-3, 220, tackle from Independence (Mo.) Fort Osage High School. "He led the Independence area in tackles as a down lineman—not an easy thing to do. He is a player that had some big schools after him and may be one of the top lineman in the state."

**Jerry Hirlinger**, 6-1, 215, offensive guard from St. Louis (Mo.) Vianney High School. "One of the finest high school blocking offensive linemen that I have ever seen. He has the ability to really make himself into an excellent college performer."

**Steve Horn**, 6-5, 205, defensive end from St. Joseph (Mo.) Central High School. "Steve has good size and quickness and was a fine player for his high school team."

**Ron Hutchcraft**, 6-1, 180, running back from West Frankfort (Ill.) High School. "Ron is a very fast player who placed fourth in Illinois in the 200-meter race. He was very versatile and did it all for his high school team. Ron was no doubt their key player."

**Jon Lips**, 6-2, 205, guard, tackle and linebacker from Kirkwood (Mo.) High School. "Jon has great versatility and excellent quickness. He can fit into any style of defense and we are looking for some great things from him."

**Mike Meyer**, 6-0, 175, tailback, defensive back from Rolla (Mo.) High School. "We are very happy to get Mike, as we feel he can do a fine job for the team. He is a very versatile player who can assist a squad in many ways."

**Jon Perry**, 6-1, 230, offensive and defensive tackle from Oak Lawn (Ill.) Richards High School. "Jon was first-team all-conference and the top vote getter in the balloting. He is an excellent lineman and also a wrestler and track athlete."

**Paul Schmidt**, 6-2, 205, tackle from Union (Mo.) High School. "Paul has ex-

cellent movement and versatility and was an All-Conference selection in the Four-Rivers Conference."

**Joe Schnefke**, 6-1, 180, wide receiver from Granite City, (Ill.) South High School. "Caught 40 passes his senior season and is a three-sport starter. He can really play the game and is an excellent all-around athlete."

**Rip Stringer**, 6-2, 180, quarterback-linebacker from Cabool (Mo.) High School. "He played for his dad this season at Cabool and had the ability to play many positions and do well at all of them. He has good speed and game knowledge."

**Eric G. Wiegard**, 6-3, 250, tackle from St. Peters (Mo.) Fort Zumwalt High School. "He was an all-district selection and has the size to develop into a good college player."

**Glenn Wilhelm**, 6-2, 220, linebacker from Cape Girardeau (Mo.) Central High School. "Brother of Miner tackle Gregg Wilhelm, Glenn was an all-state selection this past year. He is versatile and can play as a down lineman or defensive end."

## UMR Tennis

Opposition such as Avila College, the University of Central Arkansas and the University of Arkansas await the University of Missouri-Rolla men and women's tennis teams when they begin their 1982 schedule.

"We should be much more competitive this year, said coach Paul McNally." "We have more depth than last season and I think a year of experience in this tough tennis conference will really help the men's team."

McNally said Southeast Missouri and Northeast Missouri remain the teams to beat.

On the women's ledger, number one seed Lorna Platt returns for her sophomore season, as does fellow second-year player Barbara Cummings. It is the youngsters, however that give McNally some added optimism.

McNally added that his team's inexperience will show early, but they have the skill to mature into successful college tennis players."



## Outdoor Track

Trips to invitational meets in Bowling Green, Ky. and Edwardsville, Ill., highlight this spring's UMR outdoor track schedule.

Coach Dewey Allgood returns many top cindermen, as the Miners prepare for an eight-meet schedule culminating with a tough MIAA Conference Championship May 7-8 in Cape Girardeau, Mo.

Among the top returnees are distance men Dave Moore, Mark Stucky and Brian Blackford, while Kevin Stock and Pete Lichtenwalner are also on hand and coming off an improved indoor season.



Kent Dinsdale....from hardwood to the links.

## Miner Baseball

A new, young pitching staff will be the first aspect of the 1982 University of Missouri-Rolla baseball team to be tested this year.

"Pitching will be a key," said coach Chuck Broyles. "Many of our arms are young and untested on the collegiate level, so we are hoping some of them come through for us soon."

Lefthanders Gene Meyer and Steve Phegley are joined by righthander Dan Nower in making up the Miner trio with the most varsity starting experience. Meyer was third on the team in ERA last year and was second in victories, while Phegley appeared in more games than any other returning Miner. Nower both started and relieved for UMR, posting a 2-1 record and one save.

In the hitting department, leading batsman D. J. Steagall returns for another season after pacing the Miners with a .415 average in 1981. Craig Thomas brings a .286 average back to centerfield, where he paced UMR in runs scored, walks and stolen bases. Catcher Kevin Havener (.267), left-fielder Tom Murphy (.265) and shortstop Kevin DeBondt (.204) round out the top returnees.

UMR batted .275 as a team last year.

## Dinsdale Paces Golf

For Kent Dinsdale, the rest between seasons was a short one.

Stepping directly from the basketball floor to the golf course, the talented sophomore is expected to lead the University of Missouri-Rolla golf team this spring.

UMR's number one player a season ago, Dinsdale returns as one of the top players in the state.

"There is no doubt in my mind that he is one of the best," said coach Bud Mercier. "He is really a team leader and should do a fine job for us."

Dinsdale qualified for the national tournament last year and was in fourth place in the United States after the first day of play. After faltering on a difficult course, he still finished in 66th place overall.

Joining him will be top returnees P. J. Moran, Kevin Roney and Gary Pohl. The main loss for UMR will be graduate David Mueller, the number two player for UMR during most of last season.

"We probably are improved over last season," Mercier said. "I see quite a bit of competition among the team members and that should help us out."

Mercier sees MIAA champ Central Missouri as the team to beat.

## Softball Miners Hope to Improve

With six key returnees bolstering her 1982 softball team, coach Sarah Preston looks for the University of Missouri-Rolla squad to improve on last year's 8-11 record.

"We have much more depth than a year ago and also some freshmen on hand who should help out," Preston noted. "If our hitting improves as I think it will, we should be very competitive."

"There has been a lot of interest in the team so far, and I am looking forward to getting things underway."

One new addition to UMR's pre-season conditioning program has been a pitching machine that Preston has had her players utilize for more than a month.

"It can't help but do us some good," she said. "Plus the players have seemed to really enjoy working with the machine."

UMR hit .280 as a team last year and was 8-9 against Division III competition.



Leta Judd....top returning pitcher for the Miners.



## Save Warmth of Sun In Solar Ponds

Winter winds may be blowing outside your door, but inside you could be enjoying the warmth of summer—if you have a solar pond in your back yard.

"There's a great deal of interest in solar ponds both here and abroad for space heat and generating power," said Dr. Alfred L. Crosbie, UMR professor of mechanical engineering who is working on a research project dealing with the thermal modeling of solar ponds.

"The interest in solar ponds in this country is primarily for agricultural and rural heating," he added. "Because of the space considerations, they're simply not practical for an urban setting."

The operating principle behind solar ponds is simple. "When sunlight strikes a fresh-water pond, it heats the water and stirs up convection currents," Crosbie said. "The warm water, because it is less dense than the cool water, rises to the surface where it loses its energy to the atmosphere."

In a solar pond, however, the addition of salt to the water helps to suppress these currents and reduce the energy loss.

"Salt content is varied by depth with the heaviest concentration at the bottom of the pond," Crosbie said. "Essentially, what you have is a series of layers of salt water with a layer of fresh water on top.

"These layers are denser and heavier than fresh water and resist rising to the top of the pond even after having been heated," he continued. "The lighter layer of fresh water also acts as an insulator, helping to contain the heat below it."

The pond collects energy all summer, reaching a thermal high in the fall. During the winter the hot water can be pumped from the bottom of the pond and used to heat homes and barns any time of the day—on cloudy days as well as sunny ones.

If the pond has been properly designed, the energy that has been stored in it is available even when you might think it wouldn't be.

"A layer of ice on top of the pond not only can act as an insulator," Crosbie said, "but it also may serve as a buffer against winds that could stir up waves and break up the salt layers, allowing convection currents to form."

"Solar ponds also should be relatively inexpensive because of the low cost of constructing the energy collector or pond," he added. "We've had the technology to build ponds for years; now it's a matter of making the energy costs competitive with other alternatives."

"Solar ponds already have been shown to be a workable concept," Crosbie said. "The next step is to perform some engineering analysis of the concept to give us a basis for judging performance and making refinements and adjustments."

The computer model that Crosbie is constructing will help him to simulate what "takes place physically" in a solar pond.

"We want to model the thermal history of a pond over a year's cycle," he said. "We want to see how different design parameters and environmental conditions affect performance and results. After doing this we should be better able to design efficient ponds."

### UMR ELDERHOSTEL

Registration is now open for Elderhostel, week-long summer programs at UMR for persons over 60. Elderhostelers sample today's college life by living in a dormitory, eating in the dining hall, taking college-level courses, and using the libraries and other campus facilities. The cost is \$150 per person and includes room, board and courses.

#### Programs at UMR

##### June 13-19

Remembering the 1930's: Images and Voices from the Past-Instructor, Douglas Wixon, associate professor of humanities.

Pragmatism: An American philosophy-Instructor, Richard Miller, associate professor of philosophy. Of Mice and Men, as well as Alumni: English Plurals and Other Singularities-Instructor, Marilyn Pogue, associate professor of English.

##### June 20-26

From Suffrage to Equal Rights: The History of Women's Movement in America-Instructor, Jane Uebelhoefer, instructor of humanities.

Art and Technology in Post-War America-Instructor, Harry Eisenman, associate professor of history.

The Literature of the Bible-Eugene Warren, associate professor of English.

##### June 27-July 3

Cultures of Latin America-Instructor, Erwin Epstein, professor of sociology and social sciences.

Shakespeare's Tragic Heroes: Their Infinite Variety-Instructor, Jim Pogue, professor of English.

Shorter Humorous Works of Mark Twain-Instructor, Clyde Wade, associate professor of English.

For further information:

Jane Uebelhoefer  
232 Humanities-Social Sciences  
University of Missouri-Rolla  
Rolla, Mo. 65401  
Phone: (314) 341-4691



# Faculty Personals



DR. RONALD A. KOHSER

## SAE Award Winner

Dr. Ronald A. Kohser, associate professor of metallurgical engineering at UMR, is one of 25 educators in the country who are recipients of 1982 Ralph R. Teetor Education Awards from the Society of Automotive Engineers (SAE).

Award recipients were guests of SAE during the 1982 SAE International Congress and Exposition in Detroit Feb. 22-26. During that time, they had the opportunity to confer with engineers in the automotive industry, view the latest engineering techniques used in the design and manufacturing of automotive products, tour the SAE Exposition and attend sessions of interest in their engineering fields.

Kohser joined the UMR faculty in 1975. He holds Ph.D. degree in metallurgy and materials science and a B.A. degree in physics from Lehigh University and a M.S. degree in physics from Iowa State University. He is the author of a number of publications, and is a member of the American Society for Metals, the American Institute of Mining, Metallurgical and Petroleum Engineers, and Phi Beta Kappa.

## Paul Proctor On National Committee

Dr. Paul D. Proctor, professor of geology and geological engineering at UMR, has accepted an invitation to serve on the Committee on Mineral Resources (COMRE) of the National Research Council (NRC).

COMRE was organized to conduct a study on informational requirements for evaluation of mineral resource potential to support decision making in the Bureau of Land Management, U.S. Department of the Interior.

The committee will function under the Board on Mineral and Energy Resources of the NRC's Commission on Natural Resources.

## Hagni Wins Moscow Paper Competition

Dr. Richard Hagni, professor of geology at UMR, has received an award of \$1,500 in the International Association on the Genesis of Ore Deposits Moscow Paper Competition. The award will be used toward meeting his expenses in attending the 6th quadrennial symposium of the association in Tbilisi, the Soviet Union, in September.

He is one of ten geologists in the country to receive the award. During the symposium he will present two papers: his winning entry, "Textural Analysis of Phosphatic Iron Ores by Luminescent Microscopy," and "Precambrian Silver-Tungsten-Tin Mineralization and its Relationship to Granitic Magnetism in Southeastern Missouri."

The first paper resulted from a grant study made for the U.S. Bureau of Mines in which cathodoluminescence microscopy, a new tool, was used to locate and study the phosphorous-bearing mineral grains in iron ores in the Birmingham, Alabama district. Co-investigator for this project was Michelle Cooper, a graduate student in geology at UMR.

## Knight's Paper In Shakespeare Journal

A paper by Dr. W. Nicholas Knight, professor of English at UMR, will be published this spring in Shakespeare Translation.

The paper, "Translating Law Language in Shakespeare," was presented at the World Shakespeare Congress, Stratford, England, last August.

Shakespeare Translation, an English language journal published in Tokyo, has an international circulation, the largest of any journal of Shakespeare in the world.

## Patel Authors Reference Book

"Handbook of the Normal Distribution," a graduate-level reference book in mathematical statistics co-authored by Dr. Jagdish M. Patel, associate professor of mathematics and statistics at the University of Missouri-Rolla, was published recently by Marcel Dekker Inc. of New York. Dr. Patel's co-author is Campbell Read of Southern Methodist University in Dallas.

Dr. Patel also has co-authored the "Handbook of Statistical Distribution," which was published by Marcel Dekker in 1976.

**1982  
Homecoming  
October  
1-2**



# Alumni Personals

1912

**William Henry "Dutch" Elbelt** died in January at age 94 according to a notice received by the association. He was a retired mining engineer and had been living in Albuquerque, N.M.

1920

**Mrs. V. H. McNutt** sends us notice of the death of **Allen J. Anderson**, former president of Giant Yellowknife Mines. He died in early February in Toronto, Canada. He was president of Giant Yellowknife from 1956 to 1962, having joined the company in 1946. He also served as president of two other Falconbridge Group companies. United Keno Hill Mines and Akaitcho Yellowknife Gold Mines. After his retirement in 1962, he worked as a consultant, helping develop silver mines in British Columbia, and for the Lacana Group in Mexico. He continued to serve as a director of Giant Yellowknife until his death.



1927

**Alfred T. Smith**, owner and former operator of Smith's 66 service station, 11th and Bishop in Rolla, died March 16. He is survived by his wife, Fern, a son, Dr. Ted P., Rolla physician and formerly on the UMR medical staff, and two grandsons. He had been chairman of the Rolla Section of the MSM-UMR Alumni Association.

1928

1981 Rollamo

**Burl Y. Slates** lives at 3408E 43rd St., N., Kansas City, MO 64117. Burl is a retired mechanical engineer.

**John William Laytham** died Jan. 27, in St. Louis. He had been with the Missouri Highway Department from 1930 until his retirement in 1970 as maintenance and traffic engineer for the state. He is survived by two sons.

1932

**Floyd Stanley Macklin** died Feb. 27. Floyd received his degree in metallurgical engineering and had been a member of Kappa Alpha, Theta Tau, Quo Vadis, and the '29-'30 track team. He retired from the U.S. Army Corps of Engineers, Kansas City District in the early 1970's. He is survived by his wife, Irene, Route 1, Shores Road, Lone Jack, MO 64070. He was a member of the Order of the Golden Shillelagh.

**Richard Lee McCreight**, retired General Dynamics mechanical engineer, died Feb. 17, in Ft. Worth, Texas. He had worked 12 years for NASA and 26 years for General Dynamics. He is survived by a son, a daughter, and nine grandchildren.



1981 Rollamo



## Alumni Personals

### 1935

**Rudolph J. Knoll** sends us notice of the death of **Henry John Kohler** on Oct. 31, 1981. According to alumni records, Henry had been with the Kroger Co. throughout his business career. He is survived by his wife, Charlotte, 10425 Bellefontaine, St. Louis, MO 63137.

Notice has been received of the death of **Collins H. McDonald** on Oct. 27, 1981. Before his retirement, he had been president of Capitol Clay Products Inc., Washington, D.C.

### 1936

**Robert Louis Prange** died suddenly Jan. 31, in St. Louis. He was the retired director of labor relations for the Norfolk & Western Railroad, a member of the Board of Directors of Bremen Bank and Trust Co., Board of Directors of Springmeier Freight Forwarding Co. president of Springmeier Foundation, and member of the Board of Directors of the Eastern Missouri Chapter of A.C.L.U. He is survived by his wife, Mildred, and six children.

### 1938

**Fred M. Mueller's** biography will be listed in the "Who's Who in Technology Today," 1982-83 edition. Current editions are used in reference libraries world wide to locate experts in highly specific areas of science and engineering. Fred is retired and lives at 336 1/2 W. 18th St., Idaho Falls, ID 83402.

**Melvin E. Nickel** has announced that his company, Melvin W. Nickel & Associates, Chicago-based consultants to the iron and steel industry, will represent Nippon Electrode Co., in the United States and Canada conducting its operations through Mitsubishi International Corp., N.Y. Nippon Electrode is entering the U.S. market for the first time. Melvin's address is 10601 S. Hamilton Ave., Chicago, IL 60643.

**Shiou-Chaun Sun**, professor emeritus of mineral processing in the College of Earth and Mineral Sciences at Pennsylvania State University, died suddenly on Nov. 16, 1981, while playing a regular weekly game of tennis. He had been a member of the faculty at Penn State since 1946, and retired in 1976. He is survived by his wife, E-Tu Zen Sun, and two sons. According to a note from his wife, "He received his M.S. from the Missouri School of Mines in 1938; but more than the formal graduate work was the strong and warm memory he had of life in Rolla. To the very end he would often quip, 'I am from Missouri, don't you know.'"

### 1939

**Jesse and Jane Logrbrinck** now live at 1232 Abscott St., Port Charlotte, FL 33952. Jesse is retired.

### 1940

**Rex and June Alford** live at 5743 Jason, Houston, TX 77096.

### 1941



**WARREN L. LOVERIDGE**

**Warren L. Loveridge** has announced his retirement as sales manager of wire and rods with Laclede Steel Co. He joined the company in 1941 and has held his present position since 1953. Warren lives at 16 Devondale, St. Louis, MO 63131.

**A. Noel Reagan, P.E.**, has accepted a position as a consulting electrical engineer with Brady & Anglin, Consulting Engineers, in Charlotte, N.C. Noel and Marie live at 9 King Haigler Chase, Clover SC 29710.

### 1942

**John and Helen Luise Allen** live at 2333 Kapiolani Boulevard, No. 3314, Honolulu, HI 96826. John is managing director of Overseas Technical Associates, Ltd. John writes: "Am devoting most of my consulting time on large overseas aquaculture projects. Overseas Technical Associates provides the engineering expertise to supplement the aquaculture biologists and economists. We specialize in overseas fish, shrimp projects."

**Mark W. Beard** writes: "Just returned to sunny Southern California after spending a nice year in Calgary, Alberta, on the Heavy Oil Cold Lake Project." Mark is manager, mechanical engineering, for Fluor E & C in Irvine, Calif. Mark and Shirley live at 2529 Cardillo Ave., Hacienda Heights, CA 91745.

**Charles A. Vogel** died Feb. 17 at Lamar, Mo. He had been an engineer in Lima, Peru, for 18 years before returning to Missouri in 1967. He is survived by his wife, Olga Vogel and two daughters of El Dorado Springs, Mo.



## Alumni Personals

### 1942 (Cont.)



**HAROLD A. KRUEGER**

**Harold A. Krueger** has been appointed vice president, underground operations, for Kennecott Minerals Co. of Salt Lake City, Utah. In his new position he will have responsibility for the company's underground mining operations including Ozark Lead, Tintic Division in Utah and Minerales de Balanos in Mexico. Harold joined Kennecott Copper Corp. in 1964 after 22 years with National Lead Co. He has been general manager of Kennecott's Ozark Lead Co., Sweetwater, Mo., since 1966. Harold and Sarah live in Ironton, Mo., and their address is P.O. Box 82, Ironton, MO 63650.

**Kenneth and Roberta Sherman's** address is Route 2, Box 38, Pevely, MO 63070. Ken is an electrical engineer with St. Joe Lead Co., in Herculaneum, Mo.

### 1943

**Maurice O. Bellis** retired May 29, 1981 from Ingalls Shipbuilding Division of Litton Industries. Maurice lives at Apt. 1206, 3310 Washington Ave., Pascagoula, MS 39567.

### 1944

**Walter and Jean Dean's** new address is P.O. Box 404, Salem, MO 65560. Walter is a plant engineer with Amax Lead Co. of Mo., in Boss, Mo.

### 1947

**Roy H. Dunham** has been named a fellow of the American Society of Mechanical Engineers. Roy is manager of engineering with Bechtel Energy Corp., in Memphis, Tenn. He is a registered professional engineer and belongs to the National Society of Professional Engineers and the Tennessee Society of Professional Engineers. His address is 8373 Meadow Run Cove, Germantown, TN 38138.

**Robert L. Ray** has been appointed to the Board of Trustees of the American Society for Metals. Bob is head of his own consulting firm, Robert Lewis Ray Inc. at 1330 Broadway, Suite 1044, Oakland, Calif. He has an extensive background in heat treating, and has experience in welding problems and welding metallurgy. At UMR, Bob was in the Student Council, a member of Theta Tau, and a founding member of Sigma Phi Epsilon. He is a director of the MSM-UMR Alumni Association. Bob and Margaret live at 6045 Estates Drive, Oakland, CA 94611.

### 1948

**Leonard R. Boaz** has accepted a position as sales manager with General Electric Co., in Dallas, Texas. Leonard and Adele have moved to 2223 Timberwood, Carrollton, TX 75006.

**John and Elizabeth Kasten** live at 1411 E. Central Ave., Fullerton, CA 92631. John is a member of the technical staff at Hughes Aircraft Co.

**Nace F. Mefford, Jr.** has been named vice president of Wallace Resources in Houston, Texas. Nace and Mary Jo live at 722 Cramer Court, Katy, TX 77450.

**Homer and Ruth Sheppard** live at 5100 Darby Place, Racine, WI 53402. Homer is manager of technical services with Racine Steel Castings.

### 1949

**Walter E. Bailly** of Seminole, Oklahoma died of cancer on Saturday, March 27. He had been sick one month. Walt was an active member of the Tulsa section of the association and was the sponsor of the Walter Bailly Scholarship in petroleum engineering administered by the association. His friends will remember his zest for life, his interest in young people and his infectious laugh.

**Elbert A. (Al) Grimsley** has joined Prakla-Seismos Inc. (USA), Houston, as assistant vice president of interpretation. Al was an exploration consultant for the past year, retiring early in 1980 from Amoco International Oil Co. He was with Amoco for 25 years serving in a variety of domestic and foreign operations exploration geophysics posts. Al lives at 15902 Ripplewind Ave., Houston, TX 77068.

**Edwin L. Hughes** has been appointed president and chief operating officer with Florida Data Corp., in Melbourne, Fla. He will have total responsibility for all operational activities including engineering and manufacturing for the company. He was previously a division vice president with Xerox Corp., responsible for the introduction of 13 new products. Prior to that he was technical director for the Delco Electronics Division of General Motors. Edwin and Ann live at No. 3 Hearthside Circle, Bedford, NH 03102.

**Hal ('49 & '50) and Elizabeth Lankford** have moved to 13425 Calhoun Road, Omaha, NE 68112. Hal is a clinical biochemist with Creighton University.



## Alumni Personals

### 1949 (Cont.)

**Frederick W. Slaght** is a civil engineer with DeLeuw Cather, International Ltd., in Abu Dhabi, United Arab Emirates. Fred and Lois may be reached by writing c/o Wright, 1113 Parkington Lane, Bowie, MD 20716.

### 1950

**William E. Coolbaugh** has been named manager of engineering with Vulcan Materials Co. Bill and Margaret now live at 2421 Eagle Court, Birmingham, AL 35216.

**Stanley Dolecki** has been named engineer of the year by the St. Louis Chapter Missouri Society of Professional Engineers. Stanley is director of civil and environmental engineers with Black & Veatch Consulting Engineers in Chesterfield, Mo. Stanley and Nancy Jean live at 9113 Hatton Drive, Crestwood, MO 63126.

**James L. Hetherington** has a new position as project manager, phosphate, with the Mississippi Chemical Development Corp. Jim and Gloria's new address is P.O. Box 831, Wauchula, FL 33873.

### 1951

**Robert and Hazel Kupsch** have moved to 157 Maple Ave., Berkeley Heights, NJ 07922. Bob is now vice president of the mining department of ASARCO Inc., New York, N.Y.

### 1952

**William and Wilma Guinn's** address is Route 3, Box 113A, Pittsburg, KS 66762. Bill is a project engineer with Dickey Co.

**Franklin LaVerne Moore** died Sept. 21, 1978, according to a notice from his wife, Lila M. Moore.

**Jay Stephens** is now a senior engineer with General Electric-Aircraft Engine Group in Lynn, Mass. Jay and Ruth have moved to 26 Baldplate Road, Boxford, MA 01921.

**James and Mary Jean Walizer** have moved to 122 Crofton Drive, Pittsburgh, PA 15238. James is manager of technology and materials with Gulf Science & Technology Co.

### 1953

**Robert C. May** is now manager of product merchandising with Remington Arms Co., in Bridgeport, Conn. Bob and Betty live at 220 Tanglewood Road, Fairfield, CT 06430.

### 1955

**Leonard J. Keller** is now president and chief executive officer of Methacoal Corp. Leonard and Margaret live at 2749 Northaven Road, Apt. No. 3010, Dallas, TX 75229.

**Donald and Marian Piehler** have moved to 6290 Rabbit Ears Circle, Colorado Springs, CO 80919. Donald is the SPADOC project manager with TRW Defense Systems Group of Redondo Beach, Calif.

### 1956

**Gilbert and Shirley Jurenka** have moved to 83 Yellowstone, New Orleans, LA 70114. Gilbert is now vice president and general manager of Pool Offshore in Harvey, La.

**Charles J. McCoy** has been named vice president of Lummus Operating Associates in Bloomfield, N.J. Charles and Eleana have moved to 99 Heller Way, Montclair, NJ 07043. Charles writes that his daughter, Karen R. McCoy, and son, Michael M. McCoy, graduated from UMR in 1981. "Good 25th anniversary!"

**Erhard M. Neumann** has a new position as the manager of the heat treat group of the Lindberg Corp., in Chicago, Ill. Erhard and Agnes live at 937 N. Williams Drive, Palantine, IL 60067.



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## Alumni Personals

### 1957

**Leslie S. Allen** has been promoted to program manager with Rockwell International in Richardson, Texas. Leslie and Joan live at 1120 Atlanta Circle, Garland, TX 75041.

**Jack and Betty Englick** have moved to 7587 Centaur Drive, Evergreen, CO 80439. Jack is now in sales with FMC Corp. in Denver, Colo.

**Robert G. Fuller**, member of the physics faculty at the University of Nebraska-Lincoln gave an invited lecture, "Constructing Solutions to the Problem of Solving Physics Problems," at a joint meeting of the American Physical Society and the American Association of Physics Teachers held in San Francisco in January. He was author and coauthor of three other papers presented at the meeting and, as chairman of the awards committee, presented awards to Dr. I. I. Rabi (Nobel Prize Winner) and Melba Newell Phillips. Bob and Margaret's address is 3433 W. Pershing Rd., Lincoln, NE 68502. This information was supplied by Bob's proud father, Dean Emeritus Harold Q. Fuller.

**Robert C. Wigger** has been named president of Alexander & Alexander of Ohio Inc., in Cleveland, Ohio. Bob and Duaine have moved to 3918 E. Ash Lane, Orange Village, OH 44122.

### 1959

**John L. Bronson** has been named eastern division operations manager for Public Services of Oklahoma. He has been with PSO for 23 years. John and Patricia live at 1605 East Wichita, McAlester, OK 74501.

**Daniel and Ann Hogan's** new address is Country Club Drive, Box 330, Route 2, Edenton, NC 27932.

**James L. Risner** is now a member of the technical staff IV with Rockwell International. Jim and Pauline live at 9630 Dortmund Drive, Huntsville, AL 35803.

**Walter and Rosalie Schwenk** have moved to 30 Lucille Lane, Deer Park, NY 11729.

**Albert and Judy Weinrich** have moved to 318 Burd St., Pennington, NJ 08534. Albert is manager of satellite communication programs for RCA Corp., in Princeton, N.J.

### 1960

**Donald and Ann Hall** live at 4501 S. Reed, Springfield, MO 65804. Don is the chief engineer of applications with Dayco Corp.

**Emmitt A. Reynolds** is now branch chief of data processing and software with the National Aeronautics and Space Administration at Kennedy Space Center, Fla. Emmitt and Margaret Ann live at 1335 Leslie Drive, Merritt Island, FL 32952.

### 1961

**Farouk El-Baz, '61 & '64**, is the author of an article titled "Egypt's Desert of Promise" published in the February 1982 National Geographic magazine. The article covers some of the scientific information described by Farouk during seminars he presented when he was on campus a year or two ago. Farouk lives at 2786 N. Wakefield St., Arlington, VA 22207. He is research director of the Earth and Planetary Center, National Air and Space Museum, Smithsonian Institution.

**Terry and Carolyn Johnson** live at 8601 E. Whitton, Scottsdale, AZ 85251. Terry is manager of the TEO manufacturing/engineering department at Motorola-GEG.

**Joseph and Barbara Kadlec** now live at 1927 S. Long Lake, Traverse City, MI 49684. Joe is the president of Kadlec Associates.

**Joseph and Verlene Urekar** live at 2215 S. 14th St., Springfield, IL 62703. Joe is a control engineer with Central Illinois Public Service Co.

**Charles H. White** lives at 6 Trevor Lane, St. James, MO 65559.



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## Alumni Personals

### 1962

**Paul and Shirley Droll** have moved to 2562 Kilpatrick Court, San Ramon, CA 94583. Paul is chief research engineer with Selkirk-Metalbestos, Belmont, Calif.

**Raymond A. Mais** lives at 8790 9th St., North, St. Petersburg, FL 33702. Ray is a district sales manager with Gould Inc., headquartered in St. Louis.

### 1963

**Louis B. Allen Jr., '63, '64 & '68**, has accepted a position as a senior research scientist with United Technologies Research Center in East Hartford, Conn. Louis and Barbara Ruth now live at 140 Vernon Road, Bolton, CT 06040.

**Maxwell L. Close** has been transferred to AccuRay Ireland in Dundalk, County Louth, Ireland as managing director. Max and Elaine now live in Ravensdale, County Louth, Ireland.

**Nallapu N. Reddy** writes that after spending his sabbatical at the London School of Economics as a visiting professor, he has returned to the United States and is back at work at the University of Michigan. He now lives at 6250 Kings Shire Road, Grand Blanc, MI 48439.

**Vernon and Merlyn Risser** live at 2155 Corbett, Las Cruces, NM 88001. Vernon is a research engineer with New Mexico Solar Energy Institute.

### 1964

**Ken Pohlig** is now director of corporate growth and acquisitions for General Metal Products Co. Ken received his law degree from the Missouri Institute of Law in October 1981 and is a charter member and treasurer of the American Society of Engineering Managers. Ken and Mary live at 2 Vienne Court, Lake St. Louis, MO 63367.



FRANK F. TAO

**Frank F. Tao** has been promoted to senior engineering associate with Exxon Research & Engineering Co. Tao has been with the company since 1964. He has been at the Baytown Research and Development Division for the past six years. In that time his work has included in-depth characterization, coking, gasification, sintering, attrition and rheological studies. He is currently devoting his attention to research in the critical area of EDS slurry preheat furnace coking phenomenon. Frank, Jessmin and their two sons, Bertram and Peter, live at 5110 Ashwood Street, Baytown, TX 77521.

**Benjamin and Jenny Wang** have moved to 11250 Quivas Loop, Westminster, CO 80234. Ben is now a member of the technical staff with Bell Laboratories in Denver, Colo.

### 1965

**William A. Clifton II**, has accepted a position as foundry superintendent with the C. Lee Cook Division of Dover Corp., in Louisville, Ky. Bill and Sandra's address is Route 2, Box 209, Dant Drive, Georgetown, IN 47122.



CHARLES F. SEGER III

**Charles F. Seger III, '65, '67**, has been selected by Monsanto Co. as a Master Salesman for 1981. Charles, who joined Monsanto in 1968, is a senior sales specialist for the plasticizers division and works out of the St. Louis regional sales office. Charles, Pamela, and their son, Scot, live at 2958 Flameglow Drive, Mehlville, MO 63129.

**Gerald and Rosemarie Goos** now live at 213 Ashland, Vernon Hills, IL 60061. Gerald has a new position as service center manager with General Electric Co. in Northbrook, Ill.

**David E. Henard** has accepted a position as director of computer services with Eastern Illinois University in Charleston, Ill. David and Gail's address is Route 1, Box 8, Villa Grove, IL 61956.

**Robert A. Maylath** has accepted a position with the Western Area Power Administration as head of the estimating section. Bob and Christine live at 7876 S. Pierce Way, Littleton, CO 80123.

**Lajos B. Peresztegy** has a new position as department manager with Hughes Aircraft Co., in Culver City, Calif. Lajos has moved to 565 Explanade, No. 201, Redondo Beach, CA 90277.



## Alumni Personals

### 1965 (Cont.)

**Walt and Ann Mulyca** are proud to announce the birth of their son, **Stefan Karol**, born Nov. 17, 1981, weight 6 lbs., 11 oz. Stefan is definitely in danger of being spoiled by his four sisters and proud parents. The family lives at Route 1, No. 16 Southfield Lane, Marshall, TX 75670. Walt is area supervisor, production department, Alcoa.

**Leonard ('65, '71) and Darlene Roth's** new address is USAISAE, APO New York 09081. Leonard is now a chief, construction division, for the U.S. Army.

**Col. Gwynn Arvin Teague**, special assistant to the commander, South Pacific division, U.S. Army Corps of Engineers, died of cancer on Dec. 31, 1981, at Fort MacArthur, Calif.

### 1966

**James M. Carter** is now an assistant, space optics, with the National Aeronautics & Space Administration at Marshall Space Flight Center. Jim lives at 3312 Wilks Place, SW., Huntsville, AL 35805.

**Leonard C. Kirberg, '66, '78**, is an associate of Horner & Shifrin Inc., in St. Louis. He and Mary live at 331 Carmel Woods Drive, Ellisville, MO 63011. In February, Leonard visited the campus and brought Robert Brinkman, a senior at Lafayette High School, Rockwood-St. Louis, to check out UMR.

**Rolla and Ronna Smith** live at 7608 Horatio Drive, Bel-Nor, MO 63121. Rolla is a sales engineer with G.T.E. Sylvania in Hazlewood, Mo.

**Terral and Rebecca Young** live at 1200 Fairway Drive, Elko, NV 89801. Terral is manager of Nevada production operations with Eisenman Chemical Co., Newpark Resources Division.

**Earl Randolph**, former librarian at UMR, died Jan. 31. He had been a member of the UMR staff for more than 30 years when he retired as director of libraries in 1975. He received the Alumni Merit Award in 1975.

### 1967

**William J. Graham, '67 & '69**, has been promoted to principal engineer with Shannon & Wilson Inc., geotechnical consultants. He joined the firm in 1979, and has utilized his international experience in subsurface investigations for projects at new mines in southeast Missouri and for a number of foundation investigations in the midwestern U.S. Bill lives at 5529 Kerth Road, St. Louis, MO 63128.

**Ronald E. Jones** has accepted a position as a plant metallurgist with International Harvester Co. Ron and Patsy have moved to 5401 Ravendale Ave., Memphis, TN 38134.



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**Joseph and Sharen May's** new address is Route 6, Box 367C, Joplin, MO 64801. Joe is now a mechanical engineer with Gulf Chemical in Pittsburg, Kan.

**John Robert Richardson and Karen Elizabeth MacLeod** were married on Oct. 24. Following a wedding trip to the Smokey Mountains the couple resides at 431 SE. 2nd St., Gainesville, FL 32601. John is a research assistant in the department of environmental engineering sciences at the University of Florida while working on his PhD. in systems ecology.

**Joseph and Ruth Starling** live at 5812 Sycamore Drive, New Port Richey, FL 33552. Joe is a self-employed consulting ceramic engineer.

**Jay H. Tibbles** now lives at 9985 Sierra Ave., Fontana, CA 92335. Jay is a physician and is practicing as a pediatrician.

### 1968

**James and Norine Brune** live at 3001 Chelsea Place, Blue Springs, MO 64015. Jim is an engineer with Black & Veatch Consulting Engineers in Kansas City, Mo. He reports he is on temporary assignment at 85 Country Club Drive, Leesburg, VA 22075 until November.

**Harold S. Caby** is now president of his own company, American Business Brokers in St. Charles, Mo. Harold and Jane live at 1792 Bent Twig Lane, St. Louis, MO 63138.

**Bruce and Mary Ann Cramer** have moved to 906 Sunnysdale Road, Knoxville, TN 37923. Bruce is a technical specialist with McDonnell Douglas Astronautics.

**Larry and Charlene Eidelman** live at 15539 Valley Branch Drive, Chesterfield, MO 63017. Larry is president of Industrial Communications and Multiplex Music in St. Louis.



## Alumni Personals



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### 1968 (Cont.)

Professor Norbert Schmidt, civil engineering, reports that **William Joel Green, '68 & '69**, returned to campus to lecture to the UMR student chapter of the American Society of Civil Engineers on March 3. Bill owns Soils Consultants Inc., in St. Peters, Mo. He also employs UMR graduates **Carl Jacobi, '79**, and **Tom Helfrich, '80**. Bill and Belinda live at 229 Copperwood Trail, St. Charles, MO 63301.

**Christopher B. Groves, '68 & '69** has been named an associate with the firm of Shannon & Wilson Inc., geotechnical consultants. He has been with the firm since 1971 and is currently involved in the sheet pile instrumentation program for the first phase of replacement Lock and Dam 26. Chris lives at 12470 Sparrow Wood, St. Louis, MO 63141.

**Robert and Karen Hotchkiss'** new address is Mt. Route, Box 180, Jemez Springs, NM 87025. Bob is a staff member with Los Alamos National Laboratory.

**Steven W. Ohnimus** has moved to 1410 Levee Drive, Houma, LA 70360. Steve is a drilling superintendent with Union Oil of California.

**Steve Miltenberger, '68 & '80**, has recently been promoted to plant superintendent of the Callaway Nuclear Power Plant with Union Electric Co. Steve lives at 3205 Wood Dale Lane, Columbia, MO 65201. **Al Bolon, '61**, associate professor of metallurgical and nuclear engineering at UMR sent in this report.

**Floyd L. Mitchell** is now vice general manager, power production and construction for Big Rivers Electric Corp., Henderson, Ky. He tells us: "I left Associated Electric Cooperative in Springfield, Mo. last April and became manager of construction for Big Rivers. In July, I was promoted to my present position and am responsible for the new construction of one 440 megawatt power plant and for the operation of all existing units." Floyd and To Nga's new address is Route 1, Box 457D, Henderson, KY 42420.

**Richard Phelps** has accepted a position as mining engineer with Continental Illinois National Bank & Trust Co. of Chicago. Richard and Judy have moved to 2450 Partridge Lane, Northbrook, IL 60062.

**Sherman and Nancy Sherrick's** new address is Route 5, Box 122, Liberty, MO 64068. Sherman is an assistant professor of math at William Jewell College.

### 1969

**Donald B. Albert** has been named vice president and manager of the construction department of Home Federal Savings of San Diego. Don now lives at 7717 Margerum, Apt. 118, San Diego, CA 92120.

**Paul and Nancy Clegg** have moved to 11 Hanover Drive, West Chester, PA 19380. Paul is now a sales manager with DuPont in Wilmington, Del.

**Thomas C. Coates** is now a city engineer in Arkansas City, Kan. Tom and Mary's new address is Route 3, Box 267P, Arkansas City, KS 67005.

**Gary D. Coulter** lives at 131 Williams Drive, Lexington Port, MD 20653. Gary is a radar engineer with McDonnell Aircraft of St. Louis.

**Raymond E. Doerr Jr.** has a new position as superintendent with Rochester Products Division of General Motors Corp., in Rochester, N.Y. Raymond and Camille have moved to 22 Saddle Brook, Pittsford, NY 14534.

**Henry and Mary Fischer** live at 4618 Gray Owl Place, Fort Wayne, IN 46804. Henry is manager of product engineering with GE Speciality Motor Department.

**Jerry D. Hunt** has accepted a position as a senior lead engineer with Sverdrup Technology Inc. Jerry and Josephine now live at 1504 Creighton Place, Tullahoma, TN 37388.

**James Sullivan, Jr.** has a new position as coordinator of quality control for Chevron Chemical Co., of San Francisco, Calif. Jim and Sheree now live at 11 Lakeview Court, Novato, CA 94947.

### 1970

**Kenneth and Rosa Andrews** have moved to 2716 29th St., Bettendorf, IA 52722. Ken is an engineer with Iowa-Illinois Gas & Electric Co., in Davenport, Iowa.



## Alumni Personals

### 1970 (Cont.)

**Gene and Mary Biggerstaff** have moved to 4720 Groveton Way, St. Louis, MO 63128. Gene is an engineer with Union Electric Co.

**Roy and Kay Engineer** now live at 612 Winchester St., Bakersfield, CA 93309. Roy is a staff reservoir engineer with Oxy Oil and Gas Co.

**D. Jay Frankenfield, '70 & '71** is now a plant engineer with Procter & Gamble in Cape Girardeau, Mo. Jay and Anne's new address is Route 3, Box 253-C, Jackson, MO 63755.

**Phil Henson** is now a staff analyst with Volkswagen of America's, Inc. management information systems group in Warren, Mich. Phil had spent 13½ years with Ford Motor Co. in various systems and computer programming positions. He was the project leader of an on-line receiving and warehousing system featured in the December 7th issue of the national publication, Computer World. Phil and Carol live at 18214 Alvaro, Wyandotte, MI 48192.

**James and Karen Holliday** have moved to 6727 Lake Cliff, San Antonio, TX 78244. Jim has a new position as an instructor in the pharmacy branch of the U.S. Army Academy of Health Sciences at Fort Sam Houston, Texas.

**Timothy S. Keen** is now a branch manager for Microdata of St. Louis. Tim and Barbara live at N82 W15879 Valley View, Menomonee Falls, WI 53051.

**Dennis Kostic** has joined Eastern Associated Coal Corp., as general manager-surface and contract mining. Dennis lives at 109 Court Ave., Monessen, PA 15062.

**James and Linda McKelvey** live at 1338 Yves Drive, Manchester, MO 63011. Jim is a project manager with Cabot Corp., in St. Louis.



JOHN L. SCHWAGER

**John L. Schwager** has been promoted to vice president and manager, Callon royalty programs with Callon Petroleum Co. After 10 years with Shell Oil Co., John joined Callon Petroleum in 1980. For the past two years he has been responsible for the development and maintenance of economic models including forecasting for all deep gas trends in the U.S. He has also developed a computer system that monitors all U.S. deep drilling activity and updates the models. In addition, he supervises acquisition efforts for the Callon Royalty Programs in Mississippi, Alabama and Florida and part of the Anadarko Basin. He has made investments in excess of \$20 million in these areas, during the last two years. John and Carol live at 108 Espero Drive, Natchez, MS 39120.

**Jim and Kay Michel** have moved to 1430 Winslow Drive, Hudson, OH 44236. Jim has accepted a position as manager of market development with Chase Brass in Solon, Ohio.

**Kenneth J. Nissing** is an engineering specialist with Monsanto Co., in Sauget, Ill. Ken and Joan live at 1114 Hemroth Road, St. Charles, MO 63301.

**Enrique and Dina Oti's** new address is Box 112, APO New York 09405. Enrique is a standardization officer with the U.S. Air Force at RAF Woodbridge, United Kingdom.

**Steven and Katheryn Ray** live at 3863 Manchester, Traverse City, MI 49681. Steve is a construction superintendent with Consumers Power Co.

**Samuel L. Reed** is now the church planting pastor of the Evangelical Free Church in Alliance, Neb. Sam and Barbara's address is Route 2, Box 148, Alliance, NE 69301.

**Stephen and Kathryn Starkweather** now live at 8009 Hunt Road, Springfield, IL 62707. Stephen has a new position as senior project engineer with Central Illinois Public Service Co.

**John and Ramona ('78) Wagner's** new address is U.S.A.E.D., Middle East, Box 4274, APO New York 09038. John is a civil engineer with the U.S. Army Corps of Engineers in Riyadh, Saudi Arabia. Ramona is not working and is expecting a child in March.

**John and Kathy Woltjen** now live at 8710 Ensley Lane, Leawood, KS 66206. John is now a physician practicing in Kansas City, Mo.

### 1971

**Dr. A. Ismail Abdel-Latif** has been selected as a winner in General Electric Co.'s 1982 Technical Recognition Program. Ismail has been chosen for a division group award for successfully solving the problem of traveling wave tube failures in critical defense communication satellite missions. Ismail is a supervisor in the materials engineering section with General Electric Space Division in Philadelphia, Pa. He lives at 234 Church Road, Apt. A-1, Ardmore, PA 19003.



## Alumni Personals

### 1971 (Cont.)

**Leroy and Janice Cool** live at 7765 Black River Road, Watertown, NY 13601. Leroy is a major in the U.S. Army and commander/installation officer of the 553rd Engineering Detachment at Fort Drum, N.Y.

**Farrokh Djahanguiri** lives at 5032 Dierker Road, C-8, Columbus, OH 43220. Farrokh is a project manager with Battelle, Onwi.

The alumni office has received a notice of the death of **Edwin M. Gross Jr.**

**Richard A. Hepe** has accepted a position as market manager with the electric motor division of Gould Inc. Richard and Patricia have moved to 3564 Eileen Ann Drive, St. Louis, MO 63129.

**Harvey P. Nixon** has been promoted to chief engineer of the application development laboratory with Timken Co., in Canton, Ohio. He has been with the company since 1971. Harvey lives at 3511 Crown Point NW., Massillon, OH 44646.

**G. Dan Smith, '71 & '73**, "has moved, moved and moved! Shortly after returning from a special one-year assignment in Vienna, Austria, with the International Atomic Energy Agency, Dan changed jobs (again) and took a position in Nuclear Weapons Security with the U.S. Department of Energy. This field may sound strange for a nuclear chemist; but his technical background helps him understand the chemical process in nuclear material production and fabrication plants and the assay techniques used to account for nuclear materials in these plants. Dan has also recently moved to 20704 Highland Hall Drive in Gaithersburg, MD 20879. Last, but not least, Phyllis just gave birth to their child (a boy) after 15 years of marriage. Dan is now busy re-evaluating his priorities, but still finds time to teach an occasional karate class."

**Henry and Irene Sandhaus's** new address is P.O. Box 716, Socorro, NM 87801. Henry is now chief of the channelization field division of the U.S. Bureau of Reclamation.

### 1972

**Dana W. Breckinridge** lives at 3582 University Ave., Highland Park, IL 60035. Dana is a planner with Abbott Laboratories in North Chicago, Ill.

**Phillip and May Brown** now live at 19 Summer St., Dover, NH 03820. Phillip is a general engineer at Portsmouth Naval Shipyard.

**Hal and Karen ('73) Carter** now live at 662 E. Scenic Drive, Spanish Fork, UT 84660. Hal has accepted a position as general mine superintendent with Utah Fuel Co., in Helper, Utah. Karen is now an assistant project director with WICAT in Orem, Utah.

**Gerald W. Finn** has been promoted to office manager with Terracon Consultants Inc. Gerald and Anna live at 7612 NW. 102nd St., Oklahoma City, OK 73132.

**Ronald M. Eckelkamp, '72 & '74**, has been promoted to principal engineer with Shannon & Wilson Inc., geotechnical consultants. He is currently project engineer for the geotechnical investigation at St. Louis Station, a redevelopment of Union Station which will include the renovation of the existing building (1890 construction) and construction of new buildings within the existing train shed. Ron lives at 1639 Liggett, St. Louis, MO 63126.

**Michael Garnek** is development engineer with General Electric Space Division in Philadelphia, Pa. Mike and Denise live at 562 Saratoga Road, King of Prussia, PA 19406.

**Randal and Beth Hasselfeld's** address is 27795 Ruisenor, Mission Viejo, CA 92692. Randy is now a senior staff engineer-mechanical, with Shell Oil Co., Saudi Petrochemical Division, Saudi Arabia.

**John and Lois Peters** live at 6405 Urschel Court, Oklahoma City, OK 73132. John is a senior staff engineer with Kerr-McGee Coal Corp.



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## Alumni Personals



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### 1972 (Cont.)

**Stephen W. Rector, '72 & '73**, has accepted a position with Petro-Lewis Corp., in Denver, Colo., as development manager. Steve and Susan have moved to 5311 Brownlee Lane, Spring, TX 77373. The couple has a daughter, Megan Harris Rector, born Sept. 15, 1980.

**Balwinder and Ajit Samra** have moved to 6908 Millridge, Shawnee, KS 66218. Balwinder has accepted a position as a technical staff engineer with United Telecommunications Inc.

**Steven M. Thomas** has accepted a position as a senior software consultant with Scientific Software Engineering in Cocoa Beach, Fla. Steve and Lucinda have moved to 1224 Willowbrook Drive, No. 1, Huntsville, AL 35802.

**William N. Wallace** has moved to 710 W. McNeese St., No. 24, Lake Charles, LA 70605. Bill is now a senior instrument engineer with PPG Industries.

**Harold J. Wissmann Jr. and Susan A. Young** were married on Oct. 9, 1981. After a two week honeymoon in Hawaii, Harold and Susan now live at 6462 Hageman Road, St. Louis, MO 63128. Harold is now a civil engineer supervisor with the St. Louis County Department of Highways & Traffic.

### 1973

**David and Janet Allen** live at 1420 Marie St., St. Charles, IL 60174. David is a processing superintendent with General Mills Inc., in West Chicago, Ill.

**Robert D. Allen, '73 & '74**, has been promoted to senior staff engineer with Motorola in Scottsdale, Ariz. Bob and Denise have moved to 7646 S. Willow Drive, Tempe, AZ 85284.

**Angelo and Susan Bellassai** live at 113 W. Interstate No. 10, Bismarck, ND 58501. Angelo is electrical control field resident engineer with Black & Veatch Consulting Engineers, headquartered in Kansas City, Mo. He has a one-year field assignment at Stanton Power Plant in North Dakota.

**Thomas and Gladys Boschert** live at 46 Cimmarron, St. Charles, MO 63301. Thomas is supervisor of engineering with Edwin Cooper Inc., in St. Louis.

**Charles and Kathy Brennenstuhl** now live at 2600 St. Catherine, Florissant, MO 63033. Charles is a specialist with McDonnell Douglas in St. Louis.

**Jan K. Buxton** has a new position as a senior test engineer with Monolithic Memories Inc., Sunnyvale, Calif. Jan and Suzanne live at 731 Wake Forest Drive, Mountain View, CA 94043.

**James Lambert**, who was housing manager for the Quad Complex dormitories from 1962 until his retirement in 1973, died of cancer on Feb. 23. Friends may wish to contact his daughter, **Kathy Lambert**, at 1001 West Howard Ave., Dade City, FL 33525.

**Jerry and Shirley Crafton** have moved to 1903 N. Mill St., No. 4001, Lewisville, TX 75067. Jerry has accepted a position as a project manager with Gruy Pipeline Engineering in Irving, Texas.

**Thomas J. Depauw** has moved to 4439 Karen Court, Bartonville, IL 61607. Thomas is now a lease representative with Caterpillar Leasing Co., in Peoria, Ill.

**Roy J. Gold** has accepted a position as an instructor of chemistry at Colorado Northwestern Community College. Roy and Judy's new address is P.O. Box 1261, Rangely, CO 81648.

**Thomas E. Graves** has accepted a position as an associate engineer with IBM in Durham, N.C. He has moved to 316 Hemlock St., Cary, NC 27511.

**Robert and Deborah Kleinman** have moved to 1612 English Brook Drive, Landisville, PA 17538. Bob has a new position as a general foreman with the Fuller Co., in Manheim, Pa.

**Chuck Marvin, '69**, sends us a notice that **Carl Tosi, '73**, is now maintenance manager for the Pennsylvania Department of Transportation in Pittsburgh and Allegheny County. Carl is a 16 and 1/2-year veteran of the U.S. Army Corps of Engineers, and was president and part owner of Welco Homes in Scotland, Conn., before accepting this new position. Chuck says, "I hope Carl can fix the Pittsburgh potholes. He's a good UMR graduate. He was one of my platoon leaders in B Co., 8th Engr Bt., 1st Cav Div, in 1962." Chuck is with the Refractories Institute in Pittsburgh.



## Alumni Personals

### 1973 (Cont.)

**Patrick and Gail Lyons** live at 960 Sycamore Court, Hoffman Estates, IL 60195. Patrick is facultative manager-reinsurance, for Protection Mutual Insurance Co., in Park Ridge, Ill.

**Charles E. B. Tothill Jr.** has a new position as a field logging engineer with Birdwell. Charles' new address is P.O. Box 40131, Casper, WY 82604.

**Lindell and Esther Lena Whaley** have moved to 921 Liggett, Crestwood, MO 63126. Lindell is a general engineer with the U.S. Army Avation R & D Command in St. Louis.

### 1974

**Irving Birmingham** has been promoted to lieutenant colonel in the U.S. Army and is with the 62nd Engineer Battalion at Fort Hood, Texas. Irving and Sallie have moved to 6838 Todd, Fort Hood, TX 76544.

**Gary L. Blankenship, '74 & '75**, is a dynamicist-acoustics with Cessna Aircraft Co. Gary and Lark live at 1715 Rutgers, Wichita, KS 67212.

**Donald H. Bolin** has a new position as weld engineer supervisor with Caterpillar Tractor Co., in Aurora, Ill. Don and Mary Anne live at 70 Woodridge, Montgomery, IL 60538.

#### Correction

The alumnus wishes to correct an error in a previous "personal." **Jim and Sue Bicker (not Ricker)** announce the birth of son Jedidiah James on July 22, 1981. Sue is teaching junior and senior English and Spanish at Salem High School in Salem, Ark. The family's address is General Delivery, Bexar, AR 72515.

**Edward P. Hutson Jr.** lives at 14032 Dornoch, Grandview, MO 64030. Edward is a staff structural engineer with Burns & McDonnell Engineers in Kansas City, Mo.

**Melanie (Sarchet) Koewing** writes: "**Jim Koewing ('73)** is now a research engineer at PPG Fiberglas Research Center. Melanie is busy with their two children, Laurel (4) and Erin (20 mos.). They are still residing at 957 Delfield Drive, Bethel Park, PA 15102."

**Alan S. Kornacki** sends the following note: "I have recently been reassigned to the position of Operations Officer for Co. A, 1st SF Bn., 11th SFGA, a U.S. Army Reserve unit that is located at Ft. Devens, Mass. Prior to this, I served as the commander of a Special Forces Operational Detachment for three years. I was promoted to the rank of Captain in April, 1980. After some six years with the Active and Reserve Special Forces, I have finally earned the Senior Parachutist Badge, at the cost of one broken toe, several bad sprains, and uncounted bumps and bruises. In between weekends of Reserve duty, I'm a graduate student at Harvard University, where I am working on a PhD. in Geochemistry." Alan now lives at 24 Oxford St., Cambridge, MA 02138.

**Stephen P. Lakebrink** has moved to 1100 Parsipanny Boulevard, Apt. 336, Parsipanny, NJ 07054.

**Kenneth and Melanie Savells** have moved to 301 Wynnewood, Harrison, AR 76201. Ken is now a purchasing systems coordinator with Mass Merchandiser's Inc.

**David and Elizabeth Talbott** live at 409 Sullivan Circle, Bellevue, NE 68005. David is a Major in the U.S. Army Corps of Engineers.

**Delbert L. Teel II**, has a new position as manufacturing engineering manager-blood products, for IBM in Princeton, N.J. Delbert and Janet live at 509 Cassingham Road, Fairless Hills, PA 10930.

**David J. and Mary Tucker** have moved to 7640 E. Court Drive, Columbia, MO 65201. David has accepted a position as an equipment operator with Boone Electric Cooperative.

### 1975

**Stephen and Karen Absher** have moved to 34 Red Rock, Irvine, CA 92714. Stephen has accepted a position as senior drilling engineer with Santa F International in Orange, Calif.



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### 1975 (Cont.)

**Dennis and Marilyn Albers** have moved to 921 Hawthorne Drive, Carmel, IN 46032. Dennis has accepted a position as manager of engineering and development with Shand Mining Inc., in Indianapolis, Ind.

**Richard E. Auer** is now an assistant professor at Loyola College of Baltimore. Richard and Cheryl live at 2432 Chetwood Circle, No. 202, Timonium, MD 21093.

**Tony S. Babnik** is now a coatings chemist with Dexter-Midland Corp. Tony lives at 212 Burton Ave, Waukegan, IL 60085.

**Jim and Linda (Tate) Conrad** have moved to 192 Melbourne, Idaho Falls, ID 83401. Jim is now a senior engineer with EG & G Idaho Inc.

**John D. Dean** lives at 1640 Quail Hollow N.E., Apt. 6A, Cedar Rapids, IA 52402. John is a mechanical engineer with Rockwell International-Collins.

**Darrell L. Prior** has moved to 101 W. 14th St., Apt. 203, Rolla, MO 65401. Darrell is employed by R. L. Elgin & Associates.

**James W. and Mary Ann (Mueller, '77) Ott** have moved to 100 Hope St., Apt. 5, Stamford, CT 06906. Jim has a new position as a senior teleprocessing specialist with Caltex Petroleum Corp., in New York, N.Y. Mary Ann is at home with son, Jacob, who is 16 months old.

**Raymond F. Powell** is now a doctrinal literature manager with the U.S. Army at the Command & General Staff College in Fort Leavenworth, Kan. Ray and Judy live at 2516 S. 15th St., Leavenworth, KS 66048.

**Thomas J. Reichtien** writes: "I have recently changed companies. I now work for Fluor Ocean Services, based in Fano, Italy, where I will be for approximately one year. Plans are to then go to Norway for two more years. I can be reached (hopefully) at STATOIL/FLUOR, c/o Snamprogetti, C.P. 97, 61032 Fano (Pesaro), Italy, ATTN: Thomas J. Reichtien."

**Lawrence A. Rockwell** has accepted a position as a production design engineer with Aerospace Optics Inc., in Fort Worth, Texas. Larry now lives at 3907 Circle, No. 120, Arlington, TX 76013.

**Janice M. Rohr, '75 & '78** writes: "I would like to report that I am now employed as a senior geologist with the J. M. Huber Corp., in Oklahoma City." Jan's home address is 9622 Hefner Village Boulevard, Oklahoma City, OK 73132.

**Frederick G. Schmidt** is currently in Cairo, Egypt, according to information from his father, **Robert F. Schmidt, '45**. Fred's project is called AMBRK, a consortium of American and British consulting engineers working to upgrade the sewage system. He'll return to the U.S. in May. Fred is a design engineer with Black and Veatch and may be reached by writing to Robert's address, 210 Locust St., Wrightsville, PA 17368.

**David H. Shcolnik** has accepted a position as division production engineer with Petroleum Inc. David and Denise have moved to 3911 Morrison Circle, Norman, OK 73069.

**Richard A. Voytas** has joined Cities Service Co., as marketing coordinator, coal department. Richard now lives at 4328 E. 89th St., Tulsa, OK 74136.

### 1976

**Gregory and Kathy Best** live at 3322 Chapel Valley Drive, Quincy, IL 62301. Greg is lead design engineer with Harris Broadcast Products.

**Stephen and Fay Eckert (both '76)** send the following report: "Joshua Stephen Eckert, our first child, was born on Sept. 9, 1981, a square root day—very appropriate with two UMR graduates for parents. Then on Oct. 30, 1981, we moved down to Kentucky where Steve was transferred by Dow Corning. He is working as a plant engineer in the fluids and lubricants section of the Carrollton plant." The Eckerts' new address is Route 1, Box 86A, Kings Ridge Road, Carrollton, KY 41008.



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### 1976 (Cont.)

**Raphael L. Carrico** died on Aug. 6, 1981, according to a note received from his wife, Betsy, 15074 Islevue Drive, Chesterfield, MO 63017.

**James M. Eye, '76 & '78**, has a new position as an engineering analyst with Phillips Petroleum. Jim and Elaine now live at 394 SE. Fenway Place, Bartlesville, OK 74003.

**Robert and Susan Helmkamp** now live at 4711 Whispering Falls Drive, Houston, TX 77084. Bob is a senior production engineer with Shell Oil Co.

**Jeffery and Cheryl Lewis** now live at 306 Lakeside Drive, Vicksburg, MS 39180. Jeff has a new position as a senior service engineer with Quadrex Corp., of Tulsa, Okla.

**Gerald Meyr** has moved to 425 Columbia Center Boulevard, Apt. E-204, Kennewick, WA 99336. Gerald is now human resources manager in the personnel department with the paper group of Boise Cascade in Wallula, Wash.

**Bruce D. Nelson** has a new position as field engineer with Schlumberger Well Services. Bruce and Marilyn now live at 8501 Harvard Drive, Ft. Smith, AR 72903.

**Linda Riley** writes that she recently went to work for Kansas City Power & Light Co. Linda's new address is 6611 N. 87th St., Mission, KS 66202.

**Rodney J. Sampson II**, is an engineer/senior programmer with Quincy Research. He lives at 3021 Campbell, Kansas City, MO 64109.

**Lt. Anthony Augustine Wilson** died Feb. 15 in a plane crash. He was on leave in St. Louis awaiting discharge from the Marine Corps at the time of his death. He is survived by his parents, seven brothers and two sisters.

### 1977

**David F. Brockman** now lives at 6320 Campbell Road, No. 1442, Dallas, TX 75248. David is a sales engineer for the York Division of Borg-Warner Corp.

**Jeffrey E. Buck** now lives at 863 Voyager, Houston, TX 77062. Jeff is an engineer with Petro-Tex Chemical Co.

**David L. Diamond** writes that he has "landed a new job with Independent Valley Energy Co. The company is building a heavy crude (13.6 API) upgrading refinery and delayed coker. Construction should be complete in August, 1982." David will be the mechanical engineer for this refinery. He lives at 6704 Columbia Lane, Bakersfield, CA 93309.

**Michael and Bonita Dixon** have moved to 4708 Reavis Barracks Road, St. Louis, MO 63123. Mike is an engineer with Union Electric Co.

**Jill M. Hansbrough** is now a graduate student at the University of Missouri-Columbia. Jill has moved to 500 Busnam Ave., Columbia, MO 65201.

**Kenneth and Priscilla Lueckenhoff** have moved to 21311 Fernhollow Lane, Spring, TX 77379. Kenneth is now an assistant engineer with Missouri Pacific Railroad.

**Keith D. Malone** has a new position as a mining engineer with Cominco American Inc., in Bixby, Mo. Keith now lives at 509 S. Hickory, Salem, MO 65560.

**Michael and Kari McKean** have moved to 206 W. 115th St., Jenks, OK 74037. Michael is now a sales engineer with Fluid Components in Tulsa.

**Sean E. Price** has moved to 7408 Prestbury, Shreveport, LA 71129. Sean has a new position as a district reservoir engineer with Marathon Oil Co.



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**Kenneth Searcy** has moved to 5310 Willow Cliff Road, No. 271, Oklahoma City, OK 73122. Ken is now employed by Gulf Oil Exploration & Production Co.

**John V. Stutsman** writes that he recently passed his professional engineer's exam. John is now a generation planning engineer in the power supply planning department of Northern Indiana Public Service Co. He also represents the company on the seven-member Generation Reserve Panel of the East Central Area Reliability Coordination Agreement. John is going to night school and expects to complete his Master of Science in management at Purdue University in 1983. John and Kathy live at 8713 Monroe Ave., Munster, IN 46321.

**Dave Thorn** writes that he has recently joined McCartney Manufacturing Co., a division of Ingersoll-Rand, as a sales engineer. McCartney manufactures the fluid jet cutting system, which uses a high pressure stream of water (up to 50,000 psi) to cut a wide variety of non-metallic materials. Dave and Dallas may currently be reached at Dave's business address: McCartney Manufacturing, 635 W. 12th, Baxter Springs, KS 66713.



## Alumni Personals

### 1977 (Cont.)

**Richard Yelton** has a new position as a plant superintendent with Material Service Corp., in Cahokia, Ill. Richard and Debbie have moved to 251 Grover, St. Louis, MO 63125.

### 1978

**Bruce W. Bergman, '78 & '80**, has been promoted to senior associate engineer at the Austin, Texas, plant of IBM. He was formerly a manufacturing engineer with the communications systems division of that plant. Bruce and Kathy live at 3811 Rolling Hill, Round Rock, TX 78664.

**Ted Bestor** lives at 4715 Fontana, Roeland Park, KS 66205.

**Darrell ('78 & '80) and Cathy Buffington** live at 10104 Comanche, N.E., Albuquerque, NM 87111. Darrell is an engineer with Sergeant, Hauskins & Beckwith.

**James and Jan Cawvey's** address is Star Route A., Box 1502-F, Anchorage, AK 99507. Von is an OPTNS/analytical engineer with Arco Alaska Inc.



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**Mark S. Craig** has moved to 6060 Gulfton, Houston, TX 77081. Mark is now a senior project engineer with Exxon Production Research Co.

**Kelvin, '78 & '79, and Fran, '79, Erickson** have a son, David, born November 14. Their first born, Esther, is now 2½. Kelvin is a PhD. graduate in electrical engineering at Iowa State. Fran is now a housewife. Kelvin is a design engineer with Monsanto-Fisher Controls. The Ericksons live at 1006 West Nevada, Marshalltown, IA 50158.

**Jeffrey and Sonja Greene** have moved to No. 6 Sheri Lane, Texarkana, TX 75501. Jeff is a project engineer with McBro (McCarthy Brothers Co.), of St. Louis, Mo.

**William R. Heifner** is now a medical student in the University of Missouri-Columbia School of Medicine. He lives at 1104 Jeane Rae, Columbia, MO 65201.

**Rosa L. Herman** has moved to 3305 Ave. D, Ft. Madison, IA 52627. Rosa is now a shift supervisor with E. I. DuPont.

**Mark and Collette Holt** have moved to 2715 W. High, Springfield, MO 65803. Mark is now a plant mechanical engineer with Dayco Corp.

**Timothy E. Oberle** is now senior CAD/CAM programmer/analyst with McDonnell Douglas Automation Co., in St. Louis. Tim and Ruth have moved to 4079 Ramona, St. Charles, MO 63301.

**Brian and Susie Porr** have moved to 10403 Forum Park, No. 503, Houston, TX 77036. Brian is now a sales manager with Vanguard Groups International Inc.

**Steve and Janet Smid** would like to announce the birth of their daughter, Michelle, on New Year's Eve. Steve, Janet, and Michelle live at 6562 Galewood Court, St. Louis, MO 63129. Steve is a production engineer with Dow Chemical Co., in Pevely, Mo.

**Kenneth and Sabine Vaughn's** new address is 109 Glen Addie Boulevard, Apt. D, Belleville, IL 62221. Ken is a project engineer with H. H. Hall Construction Co., in East St. Louis, Ill.

**Roger W. Vessell** has accepted a position as production department manager with the Coleman Co. Roger and Joan have moved to 424 Parkridge, Wichita, KS 67212.

**John, ('70) and Ramona ('78) Wagner's** new address is U.S.A.E.D., Middle East, Box 4274, APO New York 09038. John is a civil engineer with the U.S. Army Corps of Engineers in Riyadh, Saudi Arabia. Ramona is not working and is expecting a child in March.

**Kevin Witte** is now a production supervisor at Monsanto Co.'s Krummrich Plant in Sauget, Ill. Kevin and Karen live at 11910 El Camara, Florissant, MO 63033.

### 1979

**Debra A. Bene** has a new position as a communications specialist with Gould Inc., in St. Louis. Debra now lives at 1044 B. LaBonne Parkway, Valley Park, MO 63088.

**Thomas L. and Kathleen S. Bridges** have moved to 25 Dogwood, St. Peters, MO 63376. Thomas is a design engineer with McDonnell Douglas Electronics Co., in St. Charles, Mo.

**James Bush** has joined Indian Wells Oil Co., as a petroleum engineer. He will be responsible for all phases of drilling and completion of oil and gas wells. He was previously a petroleum engineer for Amoco Production Co. Jim lives at 11218 Rippling Meadows, Houston, TX 77064.

**Garland J. Butler** is now a second lieutenant in the U.S. Army and a missile maintenance officer at Fort Carson, Colo. Garland and Stacy live at 1662-A2, Gatehouse Circle, Colorado Springs, CO 80904.



## Alumni Personals



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### 1979 (Cont.)

**Jane (Rufkahr) and Robert Goodin** live at 13306 85th E. Ave., Bixby, OK 74008. Jane is an industrial engineer with McKissick Products in Tulsa.

**Barbara A. Haintl** lives at 8044 Highfield Court, Cincinnati, OH 45242. Barbara is a product technical engineer with Procter & Gamble.

**Vicki (Huffman) Joern** has accepted a position with Texas Eastern Exploration Co., as a production & drilling engineer. Vicki and Karl have moved to 3500 Woodchase, Apt. No. 1807, Houston, TX 77042.

**Kent and Debra Ann Koenemann** live at 4808 Turley Mill Road, Apt. No. 11, St. Louis, MO 63129. Kent is a project engineer with Tarlton Corp.

**John and Joan MacLeod** have moved to 434D Dyea Street, Fort Richardson, AK 99505. John is now a project engineer with the U.S. Army Corps of Engineers in Anchorage, Alaska.

**Timothy J. Madden** is a project engineer with Avery Mays Construction Co. Tim and Kim live at 6402 Melody Lane, No. 1118, Dallas, TX 75231.

Notice has been received of the death of **Ronald Alan Mannbeck**.

**Shahab Makanvand** has accepted a position as an electronic engineer with the air technology division of Eaton Corp., in Los Angeles, Calif. Shahab lives at 6110 Canterbury Drive No. 215, Culver City, CA 90230.

**Steven W. Martin** has moved to 1307-13 Westview, Fulton, MO 65251. Steve is now a start-up engineer with Union Electric Co., of St. Louis.

**Carolyn L. Niess** has moved to 11250 Brian Forest Drive, Apt. 251, Houston, TX 77042. Carolyn is now an assistant manager in the computer support department at Southwestern Bell Telephone Co.

**Ken Ogle's** new address is 3535 W. Campus, No. B, Visalia, CA 93277. Ken is an electronics engineer with McDonnell Douglas.

**Jerry N. Robinson** now lives at 9220 Bellwood, No. 407, Houston, TX 77036. Jerry is a civil engineer, field construction operations, with Texas Eastern Transmission Corp.

**Paul P. Russell** has a new position as a staff process engineer, primary processes, research & development, with Anaconda Aluminum. Paul now lives at 1860 Circulo de la Cienega, Tucson, AZ 85715.

**Katherine A. Stamer** reports that she has changed her name to Katherine A. Hoorman. Kathy now lives at No. 7 Lemon Tree Drive, St. Peters, MO 63376.

**Jacqueline (Yates) and Lawrence Terbrock** live at 10815 N. Warson Road, St. Louis, MO 63114.

**Stephen R. Wachtel** received his M.S. in electrical engineering from Georgia Tech in December. Steve is currently an associate engineer with IBM in Boca Raton, Fla. His new address is 123 Lock Road, No. 5, Deerfield Beach, FL 33441.

**Richard A. Webb** has accepted a position as plant engineer with Anheuser Busch Inc., in St. Louis. He now lives at 706 W. Lockwood, Glendale, MO 63122.

**Steve and Jana (Trampe) Zigrye, '79**, have moved to 120 Woodbury, Ponca City, OK 74601. Steve is a chemical engineer in the process engineering department of Conoco Inc., and Jana is an engineer in the production research department with the same company.

### 1980

**Rabah Aoufi** has accepted a position as an instructor at Devry Institute. Rabah and Debra Jean now live at 3221 Walnut Hill, No. 2049, Irving, TX 75062.

**Kristy K. (Daily) Defenbaugh** has a new position as a reservoir engineer with Mobil Oil Corp., in Houston, Texas. Kristy and Brad live at 3631 Shipman, Spring, TX 77373.

**Robert L. Gray** has accepted a position as a power supply engineer with Kansas City Power & Light Co. Bob and Lana now live at 7051 N. Bales, Apt. 219, Gladstone, MO 64119.



## Alumni Personals

### 1980 (Cont.)

**William and Barbara Guerdan** have moved to 2005 Wayside Drive, Victoria, TX 77901. Bill has been promoted to branch manager with Shilstone Engineering Testing Laboratory.

**Lindy L. Holmes** has a new position as a civil engineer I with the Kansas Department of Transportation. Lindy and Sherry have moved to 238 Gage Boulevard, Apt. 510, Topeka, KS 66606.

**Harry M. Knight** is a captain with the U.S. Army and has recently been assigned to Company A, 802nd Engineer Battalion in Camp Humphreys, Korea, APO SF 96271.

**David and Dee-Dee Laughter** live at 1652 River Bluff Court, Eagan, MN 55121. David is a building systems salesman with Simplex Time Recorder Co., in Minneapolis, Minn.

**Kurt and Nancy Lewman's** new address is 616 N. Ward, Benton IL 62812. Kurt is an assistant to the superintendent at Freeman United Coal Co., in Pittsburg, Ill.

**Lanny D. Voight** has moved to 1981 Basston, St. Louis, MO 63141. Lanny is a senior engineer with Emerson Electric.

**Richard T. Louis** is now a sales engineer with Siemens-Allis in Overland Park, Kan. Richard and Tami now live at 6109 Alvarado, No. 45, Merriam, KS 66203.

**Matthew Mills** is now a resident program supervisor with Heritage Fifty-Three. Matthew and **Marilyn (Daum), '80**, live at 3512 70th St., Apt. 304, Moline, IL 61265.

**Ming Kit Lau's** address is 35 Newell Road, Apt. 305, Palo Alto, CA 94303. Ming is a member of the technical staff at Sandia National Laboratories in Albuquerque, N.M.

**Steve Sontag** visited the UMR Campus in February as an assistant scoutmaster, involved in the Merit Badge University Day. Steve lives at 7372 S. Yorkshire, St. Louis, MO 63123. He is presently a construction superintendent for the Fleming Co.

**Brent, '80 & '81, and Lois, '80, Sparks** now live at 1526 Shasta, Sulphur, LA 70663. "Brent and Lois have been assigned to the start-up engineering staff of one of Conoco Chemical's new plants in Lake Charles, La. Brent is working in process engineering and Lois is working in construction-projects engineering.

**Scott C. Wehner** has a new position as an area engineer with Texaco Inc., in Denver City, Texas. Scott now lives at 1906 Brazos, Hobbs, NM 88240. Scott's phone number is (806) 592-2220.

**Donald and Sheila Winter** have moved to 310 Anchor Way, League City, TX 77573. Don is an aerospace engineer with the National Aeronautics and Space Administration at Johnson Space Center in Houston, Texas.

**William Y. H. and Yen-Yu Yan** now live at 629 N. Park, Apt. No. 2, Independence, KS 67301. William has accepted a position as an assistant engineer with Arco Pipe Line Co.

### 1981

**William S. Allebach** has a new position in maintenance management with Jones & Laughlin Steel in East Chicago, Ill. Bill and Diane have moved to 1120 Reyome, Apt. K, Griffith, IN 46319.

**Kemp Akeman** has accepted a position as a materials engineer with Southwestern Laboratories. Kemp and Marta now live at 3802 Levee Circle West, Apt. No. 119, Fort Worth, TX 76109.

**John D. Anderson** has accepted a position as mine engineer with Pittsburg and Midway Coal Co., in Ashbury, Mo. John now lives at 820 E. Ford, Apt. 205, Pittsburg, KS 66762.

**Marjorie R. Andler** lives at 306 Columbia Court, College Station, TX 77840. Marjorie is a graduate student at Texas A & M University.

**Tchea Ang** now lives at 168 Waverly St., Apt. No. 6, Palo Alto, CA 94301.

**James G. Barron** writes that he has moved to 3600 North Loop 250, No. 2071, Midland, TX 79701. Jim is now a petroleum engineer, producing, mid-continent, for Chevron, U.S.A. Inc.



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## Alumni Personals

### 1981 (Cont.)

**Brett Robert Bishop** has accepted a position with Solar Unlimited Now Inc., as a member of the technical support staff. Brett lives at 12008 E. 61st Terrace, Kansas City, MO 64133.

**Larry Glenn and Cathy Blanton** have moved to 1718 Dylane Drive, No. J, Griffith, IN 46319. Larry is now a substation engineer with NIPSCO in Hammond, Ind.

**Steven D. Brooks** has moved to 4709 Brookwood Terrace, St. Joseph, MO 64506. Steve is now an environmental engineer with St. Joseph Power & Light Co.

**Michael W. Buel** has moved to 1018 Bluff St., Apt. B, Fulton, MO 65251. Mike is now a construction engineer with Daniel Construction Co.

**Richard and Janine Connelly** now live at 8800 Crystal Lane, Apt. 301, Kansas City, MO 64138. Richard is with Bendix Corp.

**Joe F. Cox II** has accepted a position as a mining engineer, project development department, with Dresser Magcobar Minerals. Joe has moved to 7255 Corporate Drive, Apt. 907, Houston, TX 77036.

**N. Kent Goddard** has accepted a position as a district engineer with Delhi Gas Pipeline Corp. Kent has moved to 817 S. Cedar, Pecos, TX 79772.

**Douglas G. Gordon** has accepted a position as a production engineer with Shell Oil Co., in New Orleans, La. Doug now lives at 3701 W. Napoleon, Apt. 140, Metairie, LA 70001.

**Vincent H. Grelle** has accepted a position as an assistant engineer with Union Electric Co. Vincent lives at 807 Neighbor Lane, St. Louis, MO 63137.

**W. H. Gusnard** has accepted a position as an engineer I with Rust International Corp., in Birmingham, Ala. He has moved to Apt. 103, 128 Ski Lodge Drive, Homewood, AL 35209.



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**James and Jeanne Hanf** have moved to 6551 S. Briar Bayou, Houston, TX 77072. Jim is now a product engineer with Texas Instruments in Stafford, Texas.

**Greg Haub** has completed training with the Ladish Co., in Cudahy, Wis. Greg and Karen live at 6450 W. English Meadows, Apt. H-308, Greenfield, WI 53220.

**Scott Lin and Lienhsiang E. Huang** have moved to 854 E. Yak Estates, Fairbanks, AK 99701. Scott is now an assistant professor in the department of mineral engineering at the University of Alaska.

**Robert Gene Hea** has a new position as facilities/production engineer with ARCO Oil & Gas Co. Bob has moved to 6701 Sands Point Drive, No. 76, Houston, TX 77074.

**Robert G. Howell** has graduated from Navy Officer Candidate School and has been commissioned with the rank of Navy Ensign. Bob now lives at 43 Elm St., Rear, Newport, RI 02840.

**Randal L. Hoyt** is now an engineer in the manufacturing division of the John Deere Harvester Works in East Moline, Ill.

**Sharon A. Huck** has accepted a position as an engineer with Western Electric Co. Sharon has moved to 502 East 3rd St., Apt. No. 18, Lee's Summit, MO 64063.

**Sylvester A. Joan** has accepted a position as a petroleum engineer with Amber International Ltd. Sylvester and Sandy now live at 16250 Imperial Valley Drive, Houston, TX 77060.

**Roland A. John** has a new position as plant engineer with Warren Petroleum Co., in Kilgore, Texas. Roland has moved to 614 Gilmer Road, No. 267, Longview, TX 76504.

**Ronald G. Jones** has accepted a position with Phillips Petroleum Co., as project engineer for the firm's Chicago pipeline terminal. Ronald lives at 1516 N. Glenwood St., Apt. B, Griffith, IN 46319.

**Kimberley A. Kimmel** is now an engineer with Delco Electronics. Kim has moved to 3816 Alameda, E52, Kokomo, IN 46902.

**Dan E. Klaproth** has accepted a position as a construction material engineer with Southwestern Laboratory. He has moved to 6750 Prutzman, Apt. 167-C, Beaumont, TX 77706.

**Gopalan Krishnamurthy** has moved to 920 Jonathan Court, Apt. No. 106, Prospect Heights, IL 60070. Gopalan is now a research engineer with Zenith Radio Corp., in Glenview, Ill.

**Eric M. Lancaster** has accepted a position as a mining engineer with Shell Oil Co. Eric now lives at 2201 Hayes Road, Apt. 3703, Houston, TX 77077.

**Mary E. Lawler** is a project coordinator with J. S. Alberici Construction Co. Inc. Mary lives at 7305 Lansdowne, St. Louis, MO 63119.



## Alumni Personals

### 1981 (Cont.)

**David Lazure** is now a production supervisor with Gulf Oil. He has moved to 2818 S. Osage, Apt. 201, Wichita, KS 67217.

**Constance (Walsh) and Edward Lillie II, '79**, have moved to 5228 Plaza Lane, Wichita, KS 67208. Constance has accepted a position as an engineer with Boeing Computer Services.

**James B. Loeb** has accepted a position as a design engineer with Dresser Industries. James and Janet now live at 7243 Long Canyon Trail, Dallas, TX 75749.

**James Craig Logan** has accepted a position as test operations engineer with Sverdrup Technology Inc., in Tullahoma, Tn. Jim and Vicky have moved to 801 Sedgefield Court, Manchester, TN 37355.

**Joy Maneke** is now a graduate student in nuclear engineering at the Massachusetts Institute of Technology. Joy lives at 305 Memorial Drive, 504A, Cambridge, MA 02139.

**Kevin M. Millar** now lives at 4525 Highway 39N, D-63, Meridian, MS 39301. Kevin is a technical manager.

**Dinh Van and Suzanne Marie Nguyen** live at 4201 Cedar Elm, Wichita Falls, TX 76308. Dinh Van is a project engineer with PPG Industries.

**Dorothy Jean Orf** has moved to 1157 S. Webb Road, Apt. 405, Wichita, KS 67207. Dorothy is now an engineer with Boeing Computer Service.

**Robyn (Arand) Peglar** is now an associate programmer trainee with Sperry Univac. Robyn and Robert have moved to 570 W. Sandhurst Drive, Apt. 203, Roseville, MN 55113.

**Mark A. Phillips** writes to let us know that he is now working for Texaco Chemical Co., in their utilities engineering design group. Mark lives at 3825 4th St., Port Arthur, TX 77640.

**Rhonda S. Powers** now lives at 1725 S. Sprace, Broken Arrow, OK 74012. Rhonda is a project engineer I with Williams Pipe Line Co., in Tulsa.

**Karen Rakop** has accepted a position as a petroleum engineer with Phillips Petroleum. Karen's address is P.O. Box 1615, Casper, WY 82602.

**Mark and Jo Lynne Schieferle** have moved to 11936 McKelvey Gardens Drive, Maryland Heights, MO 63043. Mark is now an associate engineer with McDonnell Douglas Corp., in St. Louis.

**Ting-Nung and Su-Chen Wang Shiau** have moved to 2075-B Orchard St., Urbana, IL 61801. Ting-Nung is now a research assistant at the University of Illinois at Urbana-Champaign.

**Dennis J. Smith** has joined Consolidation Coal Co.'s midwestern region as a project engineer in the engineering and environmental affairs department. Dennis lives at 5590 Eden Drive, Evansville, IN 47715.

**James and Phyllis Stanton** live at 1541 Bookbinder, Creve Coeur, MO 63141. Jim is a major in the U.S. Army and chief of the plans division of the Defense Mapping Agency in St. Louis.

**Daniel and Beth Vaughn** live at 19406 Moonhollow Drive, Houston, TX 77084. He is an engineer with Shell Oil Co. Dan writes that he and Beth are doing fine and "have bought a house but can't afford a pair of boots."

**Michael W. Wallis** has moved to 1100 S.E. Madison, No. 803, Bartlesville, OK 74003. Michael is now a systems analyst with Phillips Petroleum.

**Mark K. Wilson** has moved to 3510 Nayland Rock Drive, Houston, TX 77066. Mark is now a plant engineer with Houston Systems Manufacturers.

**Peter J. Winkelmann** has accepted a position as an electrical test engineer with Giddings & Lewis. Peter and Dorothy have moved to 124 Jefferson St., N. Fond du Lac, WI 54935.

**Gene E. Wisner** has accepted a position as an engineer with General Electric. Gene now lives at 1911 Briar Ave., Utica, NY 13501.

**Thomas Ting Hong Wu** lives at 731 Burcham Road No. D-203, East Lansing, MI 48824. Thomas is a graduate student at Michigan State University.



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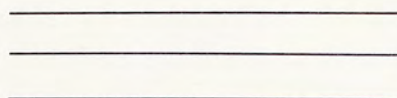


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