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Alumnus

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

> Volume 60 Number 2 April, 1986

On The Cover



St. Pat Board Rep Scott McReynolds, left, introduces Sig Tau's flame-spouting winning shillelagh, created by Dan Hilton, right, to the Follies crowd. Brothers Dan Finklang and Alex Scott express their approval. Sig Tau also won second and third places in the shillelagh competition. On the back cover is Phi Kappa Theta's float with King Kong climbing up TJ Residence Hall and towering above the UMR Stonehenge replica. Other pictures of the 1986 St. Pat Celebration will be found on pages 8-14.

MSM ALUMNUS (USPS-323-500)

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UMR In Space

It is easier to form glass in the weightlessness of space than it is on Earth. How much easier? We don't know yet.

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Studies of the results of the first successful University of Missouri-Rolla experiment which took place on the October-November flight of the Challenger space shuttle show that the formation of glass in space is enhanced by at least a factor of two to four.

Dr. Delbert Day, '58, UMR Curators' Professor of ceramic engineering and director of the UMR Graduate Center for Materials Research, directed the first in a series of several experiments which may have long-range importance for the United States' materials processing in space program, scheduled to be a part of America's proposed space station.

"We are encouraged to find from our first experiment that glass formation in space appears to be enhanced by a factor of two to four," Day said. The maximum improvement is still unknown, but later experiments could show that the improvement is a factor of 12 or more. Two more experiments have been approved, and the next experiment is tentatively scheduled for the early spring of 1987.

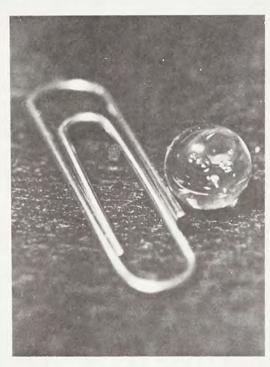
"This whole series is based on the premise that various kinds of glass can be produced in space itself or other such facilities," Day continued, "and plans call for the space station to include a materials processing module. NASA's current target date for construction of the space station is 1994, although the recent shuttle tragedy will probably delay this date."

In addition to investigating the process of glass formation in space, the UMR experiment was concerned with studying the physical properties of the resultant glass as well as testing prototypes of some of the equipment that may be used in future space factories.

The fully-automated experiment package, placed in the cargo bay of the shuttle, consisted of a specially constructed single axis acoustic levitator/furnace apparatus designed for "containerless" processing.

Five glass samples, each of which had a different composition and different physical characteristics, were positioned in the apparatus for testing. The samples consisted of spheres measuring about one-quarter inch in diameter and weighing about one-half gram. Some of the samples were clear glass and others contained colored dots or bubbles.

Instead of melting the glass within a metal container, the samples were injected into the furnace and held suspended by means of "walls" created by a sound field. "Essentially, the samples were placed inside the furnace where they were



This photo gives an idea of the size of the glass samples (enlarged about three times) when compared to an ordinary paper clip. This sample, which contains three bubbles, will be melted in the furnace in space and reformed by containerless processing in the next flight experiment.



Delbert E. Day, '58, earned his B.S. degree in ceramic engineering from MSM and his M.S. and Ph.D. degrees from Pennsylvania State. He has been a member of the UMR faculty since 1961 and was named director of UMR's Materials Research Center in 1965.

melted and reformed without ever coming into contact with a container," Day said.

"The hot liquid forms a spherical drop, much like a raindrop in the atmosphere," Day explained. "But because of weightlessness, the drop stays suspended and doesn't fall. A sound field exerts small forces on the drop which keeps it from touching the furnace walls."

According to Day, there are several advantages to not using a container in glass formation. "Surface properties can be measured more easily because the surface is exposed," he said.

"In addition, there is no contamination of the melt caused by contact with a container," he continued. "Such contamination is a problem on Earth because it is almost impossible to prevent a reaction between the melt and the container, especially at higher temperatures where melts become more chemically corrosive.

"On Earth when many substances cool, they form crystals at the liquid-container interface. Because this experiment featured 'containerless' processing, this interface did not exist, and, therefore, substances which would not form glass on Earth might form glass in space. This will be a subject of later experiments."

Bubble behavior and motion in a weightless environment was the subject of another of the successful experiments. One of the glass samples containing a bubble was melted and reformed into a hollow glass sphere. However, after a period of time—in the cooling process—the bubble moved

to the surface and burst so that the sample became a solid sphere (marble) instead of a hollow shell. The experiment showed that it was possible to create the hollow glass sphere, but keeping it in that stage will be the subject of further study.

"Formation of a perfect hollow sphere is almost impossible on Earth," Day explained. "But we have hopes that it can be accomplished in space. A hollow glass sphere has an important potential for use in several areas, one of which is laser fusion."

Day and his research teams are still evaluating the results of these first experiments and the photographs taken of the process within the furnace.

"One of the things we want to know is how procedures for melting glass might have to be modified in space because of reduced gravity," he said.

"Because it would be too expensive to transport raw materials from Earth to space, we need to perfect our techniques and equipment for materials processing in space so that we can use the natural resources of the moon, the asteroids or even the other planets to produce glass and other useful materials in the space factories we have envisioned," he continued.

"We also are interested in seeing whether glass melted in space has unusual properties that have applications in areas such as fiber optics, telecommunications, electronics and the generation of electrical power through fusion technology.

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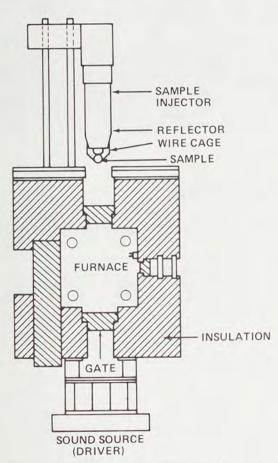
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"In addition, we want to determine if we can make glass in space out of materials that would not normally form glass on Earth," he added. Another major aspect of this project is determining how the information gained from this experiment can be used to improve our glass manufacturing processes on Earth."

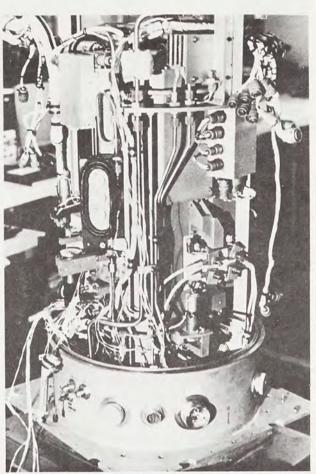
Assisting Day with the UMR experiment are Dr. Chandra S. Ray, research assistant professor, UMR Graduate Center for Materials Research, and Heidi Rutz, UMR

graduate student in ceramic engineering. Frank Gac, '75, with the Los Alamos Laboratories in New Mexico, also is cooperating in the experiments involving the hollow glass shell

The only other university working on the formation of glass in space is Rensselaer Polytechnic Institute in Troy, N.Y., and its team is using a three-axis acoustic levitator system.



This diagram depicts the method of containerless processing in a single-axis acoustic levitator/furnace. The sample, suspended in a wire cage, is inserted into the furnace from the top. Sound waves emitted from the bottom of the apparatus keep the sample suspended, and a camera—with access to the furnace through the window on the right side—takes pictures of the sample while it is melted and solidified.



This single-axis acoustic levitator, manufactured by Intersonics Inc., Northbrook, Ill., is the actual equipment used in space. The fully automated, self-contained experiment package was placed in the shuttle's cargo bay outside the space lab unit manned by German scientists on the October-November flight.

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Students descending Brian Head Peak, highest point in southern Utah (11,300 feet). In the distance is Cedar Breaks, a smaller version of Bryce Canyon.

Geology Field Camp

The annual summer geology field camp conducted at Cedar City, Utah, by UM-Rolla's department of geology and geophysics "is situated among some of the most diverse and interesting geological features and structures in North America," according to Dr. S. Kerry Grant, UMR professor of geology and geophysics and camp director.

"The experience that our students gain at field camp complements and enhances the work they do in classrooms and laboratories on campus by exposing them to a variety of geological phenomena," Grant said.

"It also provides them with practical, 'hands-on' experience to aid in interpreting geological data collected from field sites, drill holes and instrument readings later in their professional careers," he added.

The Cedar City site for the camp was selected 13 years ago because it possessed the potential for a wide spectrum of geological studies and experiences. Between 75 and 85 UMR students attend the camp each summer.

"The camp site in the Basin and Range-Colorado Plateau Transition Province is one of the most geologically representative areas of the United States," said Grant. "Stratigraphic structures are well-displayed in areas exposed by erosion and minimal vegetation."

"The location of the camp also parallels the eastern edge of the Western Overthrust Belt, where numerous geological structures can be observed in various stages of development," he continued. "These include the active Hurricane Fault, which features 5,000 feet of visible vertical relief and sedimentary, igneous and metamorphic terrains formed under tensional and compressional forces."

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"Few other areas are as favorable for the study of forces behind structures," said Dr. John Rockaway, chairman and professor of geological engineering at UM-Rolla and an instructor at the field camp.

He added that the area also is ideal for field study of specific engineering geology features, including landslides, open pits, potential earthquake damage, active faulting, foundation failures, coal mines, oil fields and geothermal fields.

Students in the camp spend five weeks participating in different areas of study. They receive six hours of academic credit for the camp.

"The first three weeks involve on-site work with emphasis on detailed mapping and interpretation of geological structures, such as upright and overturned anticlinal folds and exposed sections of Mesozoic marine and non-marine

4 MSM Alumnus

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During the fourth week of camp, students leave the base camp site to observe regional geological features.

"This week's activities are geared to each student's individual needs and interest and range from viewing engineering projects to petroleum-geophysical-related features to general interest geological structures such as the nearby Grand, Zion and Bryce Canyons; Cedar Breaks; and Capital Reef," Grant said. The fifth week of the camp centers on independent projects. "These projects, which usually involve the mapping of an unstudied area, often have led to new map production by the field camp staff," Grant said.

"Students and faculty establish a home base in the dormitories of Southern Utah State College in Cedar City and hike into the field," Grant explained.

"In addition to maximizing time and effort in the field, indoor facilities at the college provide an environment con-



Students view the Sevier Fault near Bryce Canyon National Park. The fault surface is evident in the distance as an inclined contact, sloping down to the left. Dark basalt in lava overlies the surface, and horizontally-layered limestones underlie the surface. These limestones are the rocks that erode to form the spectacular forms of Bryce Canyon.



A field camp student examines the volcanic rocks at the top of Brian Head Peak. The dark formation immediately behind him is the Isom tuff, and the Leach Canyon tuff forms the lighter debris on the right half of the foreground. These formations have been uplifted more than a mile above where they were formed.

ducive to the evaluation of data and the production of maps and reports," said Dr. Richard D. Hagni, Chairman and Gulf Oil Foundation Professor of Geology at UMR, who visited the camp last summer.

The camp is staffed and directed by faculty from UMR and occasionally, other schools. Last summer, those from UMR included—in addition to Grant and

Rockaway—associate professors of geology and geophysics, Robert Laudon and Charles Corry; professor emeritus of geology, Paul Proctor; and professor of geological engineering, David Barr. The staff creates a challenging experience for the students in geology, geophysics and geological engineering.



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Measuring the inclination of folded beds near a major fault in Zion National Park.

Contributors To MSM-UMR Alumni Association Annual Fund

The following names were inadvertantly omitted from the lists of donors published in the February "Honor Roll" issue of the Alumnus. The computer programming problem has been corrected and the Alumnus is proud to include the names in this issue of the magazine. Sorry for the delay!

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When a St. Pat's board member yells "Snake!" freshmen destroy the critter with their trusty homemade shillelaghs—even if the snake is made of rubber. Rolla Daily News Photo

1986 St. Pat's Celebration

The 78th annual St. Pat's celebration was once again "the best ever." The weather was glorious almost every day of the week.

The noon-hour "follies" contests on Monday, Tuesday and Wednesday were popular events, as usual. A record was established this year when the men of Kappa Alpha were able to put 56 garters on the leg of their female contestant. This was three more than the second place winner, Tau Kappa Epsilon, who had won the contest last year with 46 garters on a girl's leg in one-minute. Don Hilton of Sig Tau won the shillelagh contest with a spectacular masterpiece that spouted flames from the carved snake's fangs (see cover picture).

Once again St. Pat arrived in town (on Thursday) riding on a railroad handcar

supplied by the Burlington Northern Railroad. He was met at the depot by many dignitaries—Rolla Mayor Floyd Ferrell, UMR's Interim Chancellor John T. Park, John Kelly, dean of engineering at University College Dublin, Ireland (1981 Honorary Knight who has returned every year since then), Rolla Chamber of Commerce ambassadors and an assortment of students, townspeople and members of the press.

Thursday afternoon's Extravaganza was a big success as were the traditional games on Friday. Winner of the cudgel carry was Tau Kappa Epsilon with Pi Kappa Alpha coming in second and Beta Sigma Psi third.

A large crowd was on hand Friday night for the coronation ceremonies which were followed by a spectacular fireworks display.

Saturday was bright and sunny with crowds lining the parade route on both Pine and Rolla Streets. The science fiction theme was the inspiration for more than a dozen floats—see the following pages for photos of some of them.

of the

On Saturday afternoon 32 student knights had a date with "Alice" and Independent representative, Karen Giovanoni, M.E. senior from Arnold, had the distinction of being the first woman choosing to take the plunge.

Saturday night's SUB concert featured Yakov Smirnoff, the Russian comedian, who entertained an appreciative crowd.

Sunday was a day of recuperation and clean-up. Once again the St. Pat's celebration had proved to be "the best ever."

8/MSM Alumnus

St. Pat's Follies

Jini Trautman of Pi Kappa Alpha, left, was winner of the men's leprechaun-look-alike contest, and Carmen Mitchell of Zeta Tau Alpha won the honor for the ladies.

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tion and t. Pat's the best



Rolla Daily News Photo



Putting on multiple sweatshirts in one minute is a struggle.





Baracuda!...illustrating a newer St. Pat's tradition...was the winning entry in the greenest male contest. Sponsor was ZTA.



This year's St. Pat was David engineering management from Millstadt, III. He represented Delta Tau Delta on the St. Pat's Board. Rolla Daily News Photo



Queen of Love and Beauty Hettenhausen, senior in was Lynn Ciskowski, sophomore in engineering management from Ferguson, representing Lambda Chi Alpha. Rolla Daily News Photo

Those dubbed Honorary Knights for 1986 were: Dr. Marvin W. Barker, dean, UMR College of Arts and Sciences, Rolla; Ken Lanning, '54, real estate broker and investment developer, Rolla; Harvey G. Martin, '62, southern regional sales manager, Foseco Inc., Birmingham, Ala. (St. Pat in 1961); Lenore Jones Morris, (Mrs. John), Rolla, (Queen of Love and Beauty in 1946); Donald R. McGovern, '58, chief program engineer, McDonnell Douglas, St. Louis, (St. Pat in 1956); Dr. John T. Park, UMR Interim Chancellor, Rolla; and Bill Ransdall, president, Ransdall Recycling and Processing Center, Rolla.

St. Pat Royalty



Barker



Lanning



Martin



McGovern



Morris



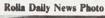
Park



Ransdall



One of the oldest St. Pat traditions—the arrival of St. Pat and his court on the handcar.





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Even dogs get the spirit!



St. Pat greets Rolla Mayor Ferrell and Interim Chancellor Park.



Alex Noble, St. Pat's Board rep, year 2006, is the son of Trumpeter Mike Noble and his wife, Jill (above).

1986 St. Pat's Parade



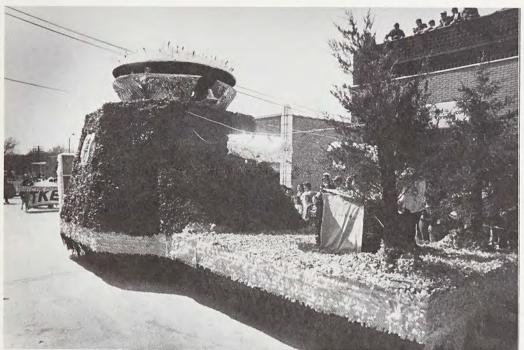
The 1986 St. Pat's Parade begins.



Queen candidates greet the crowd.



"Godzilla Invades St. Louis" won first place in the float competition for Tau Kappa Epsilon.



Pi Kappa Alpha's "Close Encounters of the Third Kind" won third place.

Rolla Daily News Photo



Pi Kappa Phi's float, "Ghost Busters," was the second place winner.

Rolla Daily News Photo



UMR's new chancellor comes to St. Pat's.



Wesley Foundation's precision chainsaws.



UMR's Ozark Pipe Band performs.



Sigma Tau Gamma's "ET Calls Home."



St. Pat's alumni board reps were out bright and early to paint the street and each other.

Rolla Daily News Photo

B. R. to a mana Carle

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B. R. Sarchet, left at lectern, lectures to a graduate class in engineering management being videotaped by Carle Gustavison, right, in UMR's new Video Communication Center.

UMR Courses Available on Videotape

UM-Rolla recently was accepted for membership in the Association for Media-based Continuing Education for Engineers (AMCEE) and the National Technological University (NTU), both of which are marketing organizations for videotape courses.

Bernard R. Sarchet, director of UMR's Video Communication Center and Robert B. Koplar professor of engineering management, said that UMR's membership in the two organizations will make its videotape courses available for engineering continuing education throughout the country. In addition, Sarchet has been appointed to serve as UMR's member representative to AMCEE and NTU

"AMCEE markets non-credit short courses on tape or through satellite transmission produced by the 33 major universities holding membership in the organization," Sarchet explained. "NTU, an all-videotape university, markets credit video courses produced by its 21 members for master's degree work in five programs. These are computer engineering, engineering management, electrical engineering, manufacturing engineering and computer science. Courses are taught all over the country wherever there is demand, chiefly at business, industrial and governmental installations.

Two engineering management courses produced by Sarchet have been marketed by AMCEE and NTU through the cooperation of the University of Kentucky. A videotape short course, "Management for Engineers," has been distributed by AMCEE, and a three-hour graduate engineering management course taught by Sarchet has been distributed by NTU. These tapes were used in 20 locations in two previous semesters and are being used in nine dif-

ferent corporate locations during the spring semester of 1986. With UMR's membership in the two organizations, the courses will continue to be marketed in UMR's name during subsequent semesters.

"To be accepted into AMCEE and NTU requires facilities to produce quality tapes and a track record on their use," Sarchet said. "UMR submitted sample tapes which were approved, and two member institutional representatives of AMCEE made a site visit to UMR in September."

Sarchet said that UMR will realize a number of benefits from membership in the two organizations. "These include expanding UMR's nationwide visibility among the industries which are NTU and AMCEE's chief clients, providing new professional outlets for the UMR faculty and providing a service to working engineers who wish to continue their educations," he added.

UM-Rolla's tapes are made under the direction of Carle Gustavison, assistant director of learning resources, in the "candid classrooms" of UMR's Video Communication Center on the ground floor of the library. The classrooms have voice-controlled microphones for professor and students and three cameras in one classroom and four in the other, including a special graphics camera for illustrations. All equipment is handled by remote control so that the normal classroom environment is not disturbed. Computer-generated graphics are available to illustrate lectures.

UMR's first "candid classroom" went into operation in January 1985 and proved so popular that a second "candid classroom" went into operation during the fall semester.

Alumni Section News

Cape Girardeau Section

The first St. Patrick's celebration of the year was held at the Cape Girardeau Holiday Inn on Saturday, Feb. 1, 1986. After the men and women's basketball losses to Southeast Missouri State University, more than forty alumni and friends gathered to commiserate about the games, discuss old times and celebrate the upcoming St. Patrick's day. Max and Jo Burgett served as hosts and provided shamrocks and other such decorations that were much in evidence.

A 1984 sweatshirt and sweatpants were padded into human form and placed on prominent display. Once again door prizes were given and alumni went home with St. Pat's beer pitchers, glasses and buttons, The men and women's basketball coaches were in attendance and discussed strategies and future plans. Those in attendance were: C. P. and Jan Bennett, '54, George and Ruth Eadie, '49, Ote Taylor, '42, Bill and Clemence Stewart, '54, Bob and Martha

Patterson, '54, Nancy and Frank Mackaman, Gene and Ann Edwards, '53, Don Fuller, '66, Robert Davis, James A. Davis, John Davis, John and Dorcas Park, Karen Park, '84, Beecher Williams, '57, Frank A. Conci, Frank B. Conci, '54, Leona Munoz, Eric and Darlene Dunning, 70, Neil and Susan Smith, Bud and Linda Falkenhain, Max and JoAnn Burgett, '54, Gene and Nel Gottschalk, '42, Don and Nancy Brackhahn, Billy and Naomi Key and Mary Ortelee.

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Ark-La-Tex Section

The first quarterly meeting of the ARK-LA-TEX Section of the MSM/UMR Alumni was held in Bossier City at the Barksdale Air Force Base, Saturday, March 1. In true Miner fashion, the meeting followed a cocktail hour, and delicious steak dinner.

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Special VIP Guests, Frank and Nancy Mackaman, of the Alumni Association, brought us up-to-date on the building program at Rolla, the selection of the new chancellor—Martin Jischke, Homecoming in October, and enrollment figures.

And now we have another VIP in our section: Dr. Jim Forgotson, '20, was awarded Doctor of Engineering degree

by MSM/UMR at Commencement last year.

Our Vice-President, Phil Browning, was in South America on business, but Ardella, his wife was on hand; she tells some interesting stories about her work as a dog fancier.

The treasurer, Darrell Musgraves, reported a healthy balance on hand with all bills paid. Darrell and his wife Barbara are planning to move to the "WEST" from Bossier City to be closer to a son who lives near Tyler. (We are hoping they pick Tyler.)

A discussion about the activities of the section was held and proposals were made to try to increase participation by area alumni.

Watch for the announcement of the second quarterly meeting of the year to be held at the home of John and Loretta Moscari in Longview. See you there?

Those in attendance were: Jim and Selma Forgotson, '20; Frank and Katherine Zvanut, '32; Gregg and Mary Willis, '75; John and Eyleen Livingston, '39; John and Shara Northrup, '77; Regan and Evelyn Ford, '23; Mrs. David Flesh; John and Loretta Moscari, '51; Ardella Browning; Frank and Nancy Mackaman; Basil and Clydell Compton, '39; and Darrell and Barbara Musgraves, '59.

Frank Zvanut, '32













Alumni Section News continued

SME-AIME Meeting in New Orleans

A reception was held at the New Orleans Hilton Monday evening, March 3, 1986, with more than sixty alumni and friends in attendance. Many alumni from the New Orleans area joined the SME Conference attendants in consuming the hors d'oeuvres and liquid refreshments. Those in attendance included: Vince Castelli, '50, Ramon Duque, '78, Ed Harrison, '78, Bob Dieffenbach, '39, Frank and Nancy

Mackaman, Paul and Liz Taylor, '58, Don Warner, Mary Mercer, '73, Tom Eyermann, '72, Darryl Bennett, '76, R. W. Piekarz, '61, David Summers, Roger Dewey, '69, Peter J. Conroy, '73, Nolan Aughenbaugh, Al Van Besien, '69, '85, Hayri and Sevim Erten, Curt Killinger, '73, Tom O'Keefe, '58, John Rockaway, Jeffrey Herndon, '75, Grant R. Brown, '65, Karl and Carol Brown, '62, Don and Nancy Brackhahn, Duk Park, '71,

Melvin E. Nickel, '38, Dan and Loretta Paulson, Agnes Lee, Vic and Rosey Hoffmann, '60, Jim Collins, '64, Richard and Rachael Hagni, Michael F. Dunn, '72, Carlos and Joan Tiernon, '54, Phil Bethke, R. Lee Aston, '50, David Barr, Ken Clifford, Harvey and Jan Martin, '62, Carl Cotterill, '40, Wayne M. Buck, '72, Jack Burst, '43, James A. Redding, '83, Roger M. Swenson, '81.





Editor's Note: Due to a malfunction of the camera, many of the pictures taken at the SME-AIME meeting in New Orleans didn't come out.

Ft. Worth-Dallas Section

On March 8, 1986, Mary Ann and Byron Keil, '52 opened their lovely lakeside home for a St. Pat's party for Ft. Worth-Dallas area alumni. Appropriate decorations abounded and the sound of snapping tabs was frequent. There was a bountiful board which attracted the hungry. Ray Runder, '32, most senior of those present, helped man the door. Old friendships were renewed and new ones made. The crowd was delighted by the movie of St. Pat's past, including scenes normally edited before public viewing. The glasses furnished by the St. Pat's Board for a drawing went rapidly, although the logo was for 1984.

Present were: Mark A. Williams, '83,

Bedford; Steve and Debbie Kimes, '84, '84, Irving; Ray Runder, '32, Ft. Worth; Donna and Mike Kistner, '67, Duncanville; Vicki and Rick Hausmann, '81, Mesquite; Mary Lou Wirz, '82, and Tim Byrum, Wylie; Herb and Pam Zahner, '81, Pauls Valley, Ok.; Chuck and Darlene Thresher, '68, Ft. Worth; Gil and Laura Carafiol, '47, Richardson; Charles and Marcelle Marlow, '65, Ft. Worth; Bob and Nancy Metze, '82, Carrollton; Tom Blackburn, '82, Ft. Worth; Gary and Doris Koenig, '69, Plano; Bob and Marge Schafer, '52, Dallas; Rick and Rhonda Reinesch, '83, Ft. Worth; Jack and Linda Wallace, '73, Dallas; Mike and Linda Korth, '70, Arlington; Tom Zuiss, '78, Watauga; Ken Ludwig,

'85, Arlington; Richard Dickens, '51, Dallas; Richard C. Cooper, '52, Lewisville; Homer L. Cox, '57, Ft. Worth; Doug Massoth, '83, Arlington; Jamie Luca, '84, Mesquite; Mike Moline, '82, Dallas; Cindy and Tim Uebele, '82, Carrollton; Aaron and Brenda Cook, '77, Ft. Worth; Don and Mary Lou DeBolt, '49, Dallas; Ali Ghaemian, '82, Plano; Mindy Woodill, '84, Bedford; Glenn W. Brand, '83, Bedford; Janne and Jim Scanlan, '67, Ft. Worth; Kemp and Marty Akeman, '81, Saginaw; Curt and Lisa Westrich, '83, '83, Rowlett; Mary Ann and Byron Keil, '52, Ft. Worth; Nancy and Frank Mackaman, Rolla, Mo. Lost in transit were Bob and Cay Brackbill, '42.

Ft. Worth-Dallas Section continued



















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Alumni Section News continued

Chicago Area Meeting for Prospective Students

Prospective students, their parents, a high school counselor, alumni and campus staff gathered in St. Charles, Illinois on Saturday morning Jan. 25, 1986 at the Pheasant Run Lodge to discuss the merits of attending the University of Missouri-Rolla. As people gathered on a snowy January morning, recorded band music resounded throughout the meeting room and campus slides projected on the screen in front of the room. At the beginning of the program Bob Saxer, alumni coordinator, welcomed those in attendance and discussed the advantages of attending UMR. Bob Lewis, director of admissions, then ex-

plained the programs on campus and possible financial support for students. Don Brackhahn, executive director of alumni relations, then presented a slide show showing facilities and activities at UMR. After a question and answer period, door prizes were distributed. Prospective students were recipients of a calculator and UMR T-shirts. Roberta Treasurer, '75, received a copy of the book UM-Rolla: A History of MSM-UMR. Orville Meyers, '43, and Art Gore, '50, received St. Pat's glasses as door prizes. After the program, alumni volunteered to aid in the admissions program by contacting high school

counselors in the area, distributing the UMR video tape and bringing prospective students to campus from the Chicago area. It was determined there will be another admissions meeting next year.

Alumni and staff in attendance included: Roberta Wilhelm Treasurer, '75, Frank Hawkins, '75, Orville L. Meyer, '43, Art Gore, '50, Ray Daboo, '62, James W. Gilstrap, '67, Robert Fleckal, '69, Paul Braddock, '78, Mr. and Mrs. Kenneth W. Schoeneberg, '44, '48, J. Roger Scrivner, '52, Robert Saxer, '61, '62, Don and Nancy Brackhahn, Robert Lewis and Ron Johnston.











UM Alumni Alliance Meeting - Washington, D.C.

More than 125 University of Missouri-Rolla alumni joined with graduates of the other three campuses to hear the University Singers of UMSL at Kennedy Center on Sunday, March 16.

President Peter Magrath and Interim Chancellor MacKinney of UMSL were there to greet the alumni at a reception following the concert. Miners were much in evidence by cloth miners they

wore on their lapels and dresses. Those from UMR were also greeted by campus alumni director Don Brackhahn and his wife Nancy.

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Dr. Haynes, left, takes his class to visit Judge Joanne Mayberry's Rolla Municipal Court.

Intercultural Communications Class

Effective communication can be enhanced through a course in "Intercultural Communications," according to Dr. W. Lance Haynes, assistant professor of speech and media studies at UM-Rolla.

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Students in Haynes' class take a close look at cultural similarities and differences in order to enhance understanding among people living in different parts of the world.

"Different cultural backgrounds can mean different life experiences and some likelihood for misunderstandings," Haynes explained. "Our goal in this class is to study and improve interpersonal communications through direct contact with other cultures."

In addition to basic communication

principles and theories, students in the class study the ideas, practices, and traditions of different cultures through first-hand encounters and experiences.

"Guest speakers representing different cultures are often invited to class to discuss topics ranging from money and careers to customs and arts and entertainment," Haynes said. "These personal contacts with other cultures provide a broader base for better communication and more tolerant viewpoints."

Field experience outside the classroom also in a valuable part of the multi-cultural learning experience, Haynes explained.

He added that the students form small, culturally diverse groups and par-

ticipate in community activities, ranging from trips to the local farmer's market to attending public meetings.

"The class recently attended a session of the Rolla Municipal Court," Haynes said.

Students are encouraged to incorporate their intercultural knowledge into class discussions and activities.

"We do a lot of role-playing in class so students can experience decision-making under a particular set of culturally determined, culturally unique circumstances," Haynes said.

"Once students understand how to develop friendships with people who are culturally different from themselves, a whole new world opens up."



John Thompson, left, head coach at Georgetown University, turns over the NABC presidency to Billy Key, head coach at UMR, on March 31 in Dallas, during the "Final Four" weekend.

President...National Association of Basketball Coaches

The year was 1958, as three friends piled into a car in St. Louis and headed for Louisville, Ky.

Gene Bartow, Chuck Smith and Billy Key had decided to attend a meeting of the National Association of Basketball Coaches, an organization they had heard of, but knew little about.

"When we got there, we were absolutely dumb-founded," said Smith, now in his 14th year as University of Missouri-St. Louis Athletic Director. "Every big-time coach we had ever dreamed of meeting was there in person. To say we were thrilled would be putting it mildly."

Such thrills often come early in one's career, and the Missouri trio had just started to get some breaks in the coaching profession.

Bartow was coaching at St. Charles

High School, Smith at Washington University, and Key—still years away from UMR—was coach at Harris Teacher's College. It marked the first collegiate coaching posts for Smith and Key, and left Bartow still a long way from a path that would eventually lead him to Memphis State, Illinois, UCLA, Alabama-Birmingham and two trips to the Final Four.

Twenty-eight years later, they were again at an NABC meeting, but the scene had changed dramatically for all three. Smith and Bartow led the cheers March 31 as 2,000 people applauded Key's installment as NABC President during Final Four festivities in Dallas, Texas.

"All of this is very gratifying," Key quietly reflected following the ceremony. "I'm very proud, and so glad my friends and family could be here to share this evening."

Joining the veteran Miner coach in Dallas were his wife Naomi, daughter Carolyn Fore, son-in-law Jack Fore, grandchildren Jeff and Jill Fore, and UMR assistant basketball coach Dale Martin and his wife Linda.

Key, who will serve as the organization's president during 1986-87, takes over the duties from Georgetown's John Thompson. Indiana's Bobby Knight is in line to succeed Key, giving him an impressive set of bookends.

And while Thompson and Knight are widely known to the national sporting masses, make no mistake about one point—in the NABC world, Key is and has been a major heavyweight.

"It is really rare when a Division II or III coach gets to be president," Smith

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said. "You have to first get elected to the board of directors, and then work your way up to the top."

Key, a member of the board since 1976, is typically low-profile about the honor. It is, however, something he has been looking forward to for some time.

"Being on the board has given me the opportunity to meet so many interesting people over the years," Key said. "I realize I have had the chance to do some things and get to know some coaches that many in my profession do not."

While the convention provided some wide-range recognition for the veteran UMR coach, local friends were ready to show their appreciation as well when he returned from Dallas.

A special surprise party awaited Key when he arrived back at work in UMR's

Bullman Multi-Purpose Building. Athletic department staff members, family and friends from around town joined him for cake, coffee and conversation.

"When you are in coaching as long as I have been, there are plenty of ups and downs," Key said. "But things like this sure make all the time and effort spent coaching worthwhile."



UMR's Coach Key

Billy Key will begin his 23rd year as head basketball coach at UM-Rolla next season. He came to UMR in 1964, and has been UMR's athletic director since 1968

Although born in Iowa, Key was graduated from McKinley High School in St. Louis. He holds a B.S. degree from Central Missouri State College in Warrensburg, and a master's degree from Washington University.

He coached high school basketball for seven years, then moved to the collegiate ranks as coach at Harris Teachers College in St. Louis and Nicholls State in Thibodaux, La. before joining the UMR coaching staff.

In January, 1983, Key was honored for coaching the 500th winning game of his career.

MINER SPORTS Gene Green, Editor

Miner Swimmers—Eighth in the Nation!

The UMR swimming team has enjoyed banner seasons in years past, but the 1985-86 squad produced the best results in Miner history.

UMR finished eighth in the NCAA II National Tournament, which was completed last Saturday in Orlando, Fla. The Miners had 181 points, giving them a spot in the top 10 for the fourth year in a row. UMR's highest previous finish was ninth.

Seniors Jon Staley and Derek Coon paced the Miners and set records along the way. Staley finished second in the nation in 3-meter diving, just .55 of a point off the national title. He also claimed third place in 1-meter diving.

Coon placed third overall in the 200-yard breaststroke, was third in the 400-IM with a school record 4:00.8, was a member of the 400-yard relay team which finished sixth and finished second in the 200-yard IM.

"Coon and Staley were the stars of the meet for us," said Miner first-year coach Mark Mullin. "Derek had an unbelievable meet. His 200-IM time was at the national record a year ago and his other two swims were simply fantastic.

"I have seen John dive for a few years now and that is the best I've ever seen him on the 3-meter boards. He was the best in the nation as far as I'm concerned."

His 3-meter finish qualifies Staley for the NCAA I National Tournament set April 3-5, in Indianapolis, Ind.

Also placing for the Miners during the tourney's final two days were senior Paul Pericich (5th in the 200-yard backstroke), Chris Aria (7th in the 200-yard backstroke), the relay team of Danny Mattle, Aria, Coon and Martin Rodseth (11th in the 400-yard freestyle). Rodseth was 19th in the 200-yard freestyle, while Scott Carney finished 17th in the 100-yard butterfly and Mattle 22nd in the same event.

"My goal was to finish in the top eight, and that is exactly what they did,' Mullin said. "I am very pleased with their performance, as we did it without our 800-yard freestyle relay team. If we had qualified that relay team and Steve Goodell in the 1,650-yard freestyle, I think we could have very well finished fifth."

California State-Bakersfield won the national championship with 549 points.

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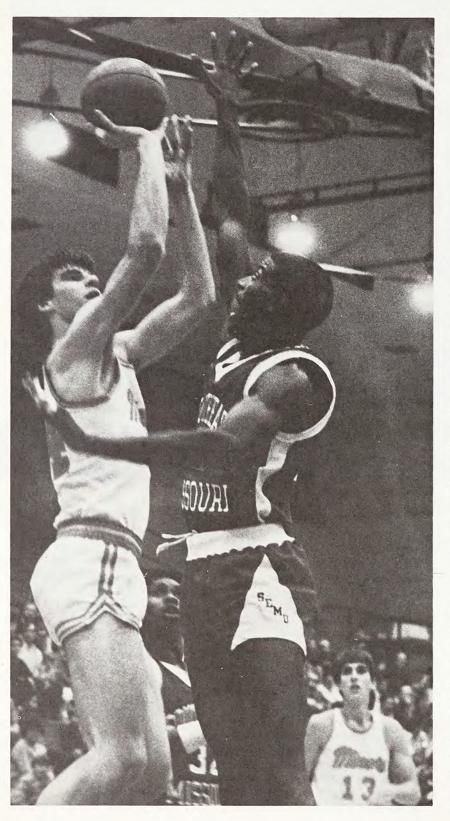
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Moellenhoff Named National Academic All American

UM-Rolla 6-8 senior center Dave Moellenhoff has been named to the 1986 GTE/CoSIDA National Academic All-American Basketball Team. Moellenhoff, an electrical engineering major from St. Louis, was named to the squad's second-team. He is a graduate of Lutheran South High School.

Moellenhoff becomes only the third Miner basketball player in history to earn this prestigious award, cosponsored this year by the GTE Corporation and the College Sports Information Directors of America. Ross Klie gained second-team honors in 1977, while Todd Wentz was named to the second team in 1984.

Moellenhoff's selection places him among the top 10 players in the country in balloting, including all NCAA Division II and III players and all the NAIA players in the United States.

"It is a tremendous, well-deserved honor for Dave," said UMR head basketball coach Billy Key. "The competition for this team is very intense and making the first or second team is a tremendous accomplishment.

"Dave will go down as one of the best student-athletes UMR has ever produced," Key added. "We are very proud of him and his accomplishments."

Moellenhoff, in addition to his scholastic achievements, finished his career as one of only two Miners to ever play 100 games. He averaged 8.6 points, 5.4 rebounds and was second in the MIAA with 43 blocked shots.

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MINER SPORTS continued

Miners Win Academic All American Honors in Soccer

UM-Rolla senior defender Joan Gleich has been named to the Adidas Academic All-American Soccer Squad's 1985 first-team. The team co-captain from St. Louis (Lindbergh High School) is majoring in mechanical engineering at UMR.

Gleich, the anchor of the UMR women soccer team's defense the past three seasons, was the only engineering student honored among the three teams Adidas named.

Also receiving recognition from

Adidas was UMR men's team cocaptain Steve McVey, who was given honorable mention status on the 1985 men's Academic All-American team. The senior midfielder from St. Louis (McCluer North High School) is majoring in computer science.

To be eligible for the teams, students must possess a cumulative grade-point average of 3.2 and be in their second year of intercollegiate competition.

"We are proud of both individuals for

their accomplishments as studentathletes," said UMR Athletic Director Billy Key. "It is always very rewarding to everyone involved when their hard work and dedication is recognized on the national level."

The Adidas Academic All-American Team includes players from divisions I, II, and III. The squad is selected by representatives of Adidas and the Intercollegiate Soccer Association of America.

Gibson Starring In Irish Hoop League

Curtis Gibson, the University of Missouri-Rolla's all-time leading scorer who recently accepted an offer to play professional basketball in Ireland, is making quite an impact on the league.

Gibson, who plays for the Admirals Club, based in Ennistymon, Ireland, is averaging 41.6 points, 15.4 rebounds and 6.1 assists per game since joining the National League team. He scored 56 points in a game Jan. 24, giving his club its first three-game winning streak in recent years.

Gibson, who earlier had planned to play professional basketball for Holland in the European League, turned down that offer when financial and other considerations could not be finalized.

"Each team in the Irish National League is allowed two Americans on its roster, and the Admirals had a player quit their team after the season began," Gibson said of the roster opening. "I was contacted by team officials, sent them a great deal of material and other information on myself, and it was obviously

enough to have them offer me a contract."

Gibson welcomed the chance to play at the professional level and realized his biggest initial problem would be getting back in peak physical condition.

"After the negotiating with the Holland team was over with, I planned to enroll back at UMR and finish my degree," Gibson said. "I only need eight more hours for my diploma and it is something I am certainly going to get."

But the former Miner star decided to postpone those final hours of classwork when the offer came from Ireland.

"I love to play, and professional ball is a challenge that I am looking forward to," Gibson said. "My contract will run through the rest of this season, so hopefully I can continue to do well and progress from that point."

Gibson, who scored 1,534 points for the Miners from 1981-85, was an NABC All-American last season. He was a first-team member of the all-MIAA squad for three straight seasons and won a league scoring title during his sophomore season.

"I am really happy that Curtis is getting his chance to play," said UMR head coach Billy Key. "He is a tremendous competitor who will make and outstanding contribution to any basketball program."

Gibson's American teammate is player-coach Ed Randolph, the fifthleading scorer in Rhode Island history.

"I'm sure playing over here for at least a year will be a great experience for me, and will hopefully lead to bigger and better things," Gibson said. "I am confident I can continue to do a very good job for the team."

Gibson, 6-5, 200 pounds, is a fairly large player in the Ireland league. Randolph and Tony Gallery, both at 6-5, were the largest Admiral players on the 1984-85 roster.

Gibson, a Kansas City (O'Hara) native, led the Miners in scoring in 17 of the team's 26 games in 1984-85.

MSM Alumnus/25

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UMR-UMC Offer Cooperative Degree

A cooperative program between the Rolla and Columbia campuses of the University of Missouri now makes it possible for students to start on a B.S. in business administration in one of 11 areas by taking from two to three years of their degree program on the Rolla campus and then finishing their work at UM-Columbia, which will grant the degree.

At UMR, the cooperative business administration program is administered by the department of economics under the direction of Dr. David Hentzel, department chairman.

"This program is an excellent one," Hentzel said. "It requires a total of 120 hours of course work, with a minimum of 30 hours taken on the UMC campus to comply with residency requirements. Courses taken on the Rolla campus will be transferred with no loss of credit, and the student, provided he or she maintains a minimum grade-point average of 2.6, will be admitted to the UMC College of Business and Public Administration."

The time spent at UMR depends on the area of specialization selected.

"Those specializing in economics, general business, or operations (production) management take their first three years at UMR. Those choosing ad-

ministrative management, business logistics, finance, marketing, public administration, real estate, or risk and insurance will spend five semesters on the Rolla campus. In accounting, students must spend four semesters at Columbia," Hentzel explained.

Hentzel said that 25 students already are enrolled at UMR in the program and that three are expected to go to Columbia in the fall of 1986 to complete their degree requirements.

"The number of students already in this program indicates that there is a great deal of interest here in business administration, and nationwide, college enrollment in business is either stable or rising," he said.

"Surveys indicate that there is a continuing demand for business graduates and many employment opportunities. The July 1985 issue of the College Placement Council Salary Survey showed that accounting was second only to electrical engineering in the number of offers made to graduates during 1984-85." he added.

For more information on the UMR-UMC program in business administration, contact: Dr. David Hentzel, chairman, Department of Economics, 135 Humanities-Social Sciences Building, UMR, Rolla, Mo. 65401.

APA Hosts Convention

The Epsilon Psi chapter of Alpha Phi Alpha fraternity at UMR hosted the fraternity's 1986 Missouri state convention Friday and Saturday, Feb. 28 and March 1.

Banquet speaker at the convention was Eugene D. Jackson, Class of 1967, owner of Unity Broadcasting Network Inc.

Jackson's Unity Broadcasting network is the parent company of the National Black Network, which is the largest black-oriented news operation in the world. It also is the first lineconnected, nationwide black-owned radio news service and the first black-owned company to use satellite communications to transmit programs to the West Coast.

Jackson is a member of the Council on Foreign Relations and the Board of Governors of the Center for Fine Arts. He serves as a board member of the National Action Council on Minorities in Engineering, Inc., and Associated Black Charities.

He holds a B.S. in electrical engineering from UMR and an M.B.A. from Columbia University.

International Week

International Day was celebrated Sunday, March 23, at UMR as part of the campus's observance of International Week (March 17-23).

Several activities were planned for International Day, including:

—An "International Exhibit" at which international students were available to discuss their respective exhibits and the cultures they represented.

—An "International Show" featuring music, dance and other forms of entertainment from different countries.

-An "International Dinner".

Other activities during the week included an "International Evening" party on Friday, March 21; slide shows, movies and guest speakers.

International Week activities were sponsored by the Student Union Board, the Student Council and the International Students Club.

Pipe Band Wins First in Kansas City Parade

UM-Rolla's Ozark Highland Pipe Band won first place in the pipe band division of the Kansas City St. Patrick's Day Parade, held March 17.

According to Dr. David L. Oakley, chairman of applied arts and cultural studies and a member of the pipe band, the Kansas City parade is "the second largest St. Pat's parade held in the nation." He added that the parade consisted of 246 units and lasted more than three hours.

In addition to the parade, the pipe band participated in the second annual Celtic Fling, held Sunday, March 16, at Volker Park in Kansas City.

Oakley added that the Pipe Band will perform in the UMR Military Review April 25 and the Great Smoky Mountain Highland Games in Tennessee, in May.

Band members include both Rolla area residents and UMR students.

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NASA "Outstanding" Award To UMR Co-op Student

Michael J. Stagnaro, a UM-Rolla senior in aerospace engineering from Lake Ozark, Mo., was the recipient of an Outstanding Co-op Award for the fall semester from the National Aeronautics and Space Administration's Lyndon B. Johnson Space Center in Houston, Texas.

Stagnaro participates in UMR's Cooperative Program in which students alternate periods of study on campus and work in business or industry.

Stagnaro received the award for his accomplishments during his third period of work at the space center. He was nominated by his supervising engineers in the systems analysis section of the systems definition branch, Advanced



Michael J. Stagnaro, left, and Charles R. Remington, '49, director of career development at UMR, inspect the NASA award Michael earned at the Johnson Space Center. Remington also directs UMR's Cooperative Program.

Programs Office.

According to the nomination, "Stagnaro converted a launch vehicle sizing program to a personal computer, added significant enhancements to the program, and optimized the program solution techniques in such a fashion as to dramatically improve the overall performance of the program.

"All of the numerical analysis and launch vehicle sizing strategy that Stagnaro used in this program are the results of his own study," the nomination said. "His lead engineer would suggest ideas and Stagnaro would be off and running. His diligence, his willingness to work beyond the normal tour of duty, and his ability to self-motivate all point to an outstanding cooperative student."

The award was the second special achievement award that Stagnaro has received at the space center. He also was awarded the honor last spring for achievements during his second work period. At that time he worked in the power and pyrotechnics section of the thermochemical test branch, Propulsion and Power Division.

"All of the assignments have been different, and all have been interesting," he said. These assignments also have started him in one of the areas in which he expects to specialize—computational analysis.

"I was already interested in propulsion development, and I want to stay in that field. But after doing some work in computational analysis, I became interested in that field and hope to combine the two in doing design analysis of propulsion and energy systems," he explained.

Stagnaro not only wins awards at work, he's also a winner in the classroom at UMR. He is a participant in the departmental honors program; a regular on the honor roll; a member of Kappa Mu Epsilon, mathematics honor society; and a member of the student chapter of the American Institute of Aeronautics and Astronautics.

Stagnaro will return to the space center next summer and expects to receive his B.S. in aerospace engineering at UMR in the spring of 1987.

After three work periods, Stagnaro said that he is "100 percent for the co-op program."

"I wish everyone could have the opportunity to participate," he said. "I didn't have any idea that it would make such a difference in my outlook. I can see how I will be using what I learn in the classroom on the job after I graduate. I also feel more confident about my career after graduation. I have a better idea of what to expect in the work place and what will be expected of me," he said.

He is looking forward to getting a position in which he can work in his major interest areas—computational analysis, design and optimization. However, he also in considering graduate work—a master's degree in aerospace engineering or mathematical physics—and possibly a Ph.D.

Stagnaro is a graduate of the School of the Osage at Lake Ozark. He is the son of Gina Stagnaro, formerly of Lake Ozark.

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Faculty Activities_

Physics Professors to Mexico, France, Japan

Dr. Ronald Olson, professor of physics and director of the Laboratory for Atomic and Molecular Research at UM-Rolla, received an invitation to make a presentation at the U.S.—Mexico International Conference on Atomic Physics in Mexico in January.

Olson also was awarded a visiting scientist position at the Center for Nuclear Studies in Paris for next summer. While in Paris, he will pursue theoretical research related to reactions occuring in nuclear fusion reactors.

In addition, Olson and Dr. Jerry L. Peacher, associate professor of physics at UMR, have received a two-year U.S.—Japan travel grant from the Na-

tional Science Foundation. The grant provides for exchange visits for the two UMR professors and their Japanese colleagues. Their research will involve collaborative studies on fundamental atomic collisions of importance to laser, accelerator and fusion reactor development.

Olson holds a B.A. degree in mathematics and chemistry from the University of Wisconsin and a Ph.D. degree in physical chemistry from Purdue University.

Peacher received B.S., M.S. and Ph.D. degrees in physics from Indiana University.

Ron Howell Elected ASHRAE Fellow

Dr. Ronald H. Howell, professor of mechanical engineering at UM-Rolla, has been elected a Fellow of the American Society of Heating, Refrigerating and Air-Conditioning Engineers by the organization's board of directors.

Howell was cited for his "work as a teacher and researcher."

Howell was honored at the ASHRAE 1986 winter meeting held recently in San Francisco. ASHRAE has a worldwide membership of approximately 50,000.

Howell received B.S., M.S. and Ph.D degrees in mechanical engineering from the University of Illinois in 1958, 1959 and 1967, respectively.

He joined the UMR faculty in 1966 as an assistant professor of mechanical engineering. He became an associate professor of mechanical engineering in 1969 and professor of mechanical engineering in 1973. He also served as associate department chairman in 1978-1980.

He was awarded the Hermann G. Spoehrer Memorial Award of the St. Louis Chapter of ASHRAE in 1982. He also was awarded a Distinguished Service Award from ASHRAE in 1983. Howell has been a member of ASHRAE since 1969 and has served on and chaired many of the society's committees, both locally and nationally.

Kramme Article in Music Education Journal

"The Collegium Musicum as a Viable Performing Group on the Technological Campus," a paper by Joel Kramme, assistant professor of music at UMR, was recently published in the "Missouri Journal of Research in Music."

The paper discusses a fine arts music group similar to UMR's Collegium

Musicum

Kramme joined the UMR faculty in 1968. He holds a B.S. degree from South Dakota State University and an M.A. degree from the University of Iowa. In addition to the Collegium Musicum, Kramme also conducts the UMR Choir and Orchestra.

Garbacz in Taiwan

Dr. Christopher Garbacz, professor of economics at UMR, has been appointed a visiting professor at the National Taiwan University in Taipei, Taiwan through June 1986.

While at the National Taiwan University, Garbacz will conduct a study of "The Energy Economy of Taiwan," which may include particular sectors of the economy such as demand for electricity, oil, gasoline and other fuels. Garbacz is working with economists from the universities, special research units and the government in Taiwan.

He received a B.A. from Little Rock University in 1965, an M.A. from Louisiana University in 1967 and a Ph.D. from the University of Iowa in 1969. He joined the UMR faculty in 1969.

Garbacz has written numerous publications and has made many conference presentations in the energy area. He has either directed or been involved in five research grants on energy.

Myers Wins Award

Dr. Donald Myers, associate professor of engineering management and director of the Center for Technological Development at UM-Rolla, is the winner of the U.S. Small Business Administration 1986 Innovation Award for Eastern Missouri. The award qualifies him for the state competition.

The award is presented to an individual who has increased the ability of small businesses to develop and market innovative technologies. The week of May 18-24 has been designated 1986 Small Business Week.

Myers also has been appointed to the Journal of Small Business Management's Editorial Advisory Board for 1986 through 1988.

He joined the UMR faculty in 1980. Myers holds B.S. and M.S. degrees in mechanical engineering from UMR and M.B.A. and J.D. degrees from St. Louis University.

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The services of UMR's Career Development and Placement Center are available to alumni as well as students.

To obtain information about the current job listings, alumni need to send an up-to-date resume to the Career Development and Placement Office. The placement staff will make the resume available to companies looking for people with experience, and will send the alumnus a copy of the latest job listings.

If you wish to use this service, contact: assistant director-placement. Career Development and Placement Office, UMR, Rolla, MO 65401 (phone: 314/341-4288).

MEETING DATA	A
Event/Site	Date
Class of 1936 50th Reunion	
Rolla	May 9, 10, 11
St. Louis Section Golf Tournament	
Paradise Valley Country Club	May 31
AAPG 1986 Convention	
Atlanta, Ga	June 16
Washington, D.C. Section Meeting	September 7
SME Fall Meeting	
St. Louis, Mo	September 9
International Mining Show	
Las Vegas, Nev	October 7
Society of Petroleum Engineers Convention	
New Orleans, La	October 7
Geological Society of America Convention	
San Antonio, Texas	November 10

"JOE MINER" LIMITED EDITION PRINTS

A new series of "Joe Miner" lithographs has just been completed by UM-Rolla's centralized printing

The prints are 16" x 20", full-color—with particular fidelity in the color printing—and were produced on heavy-weight neutral pH paper made from 100 percent cotton fiber. Each print is numbered and there are only 1,000 available. The artist is Harry Sparling who was employed by UMR in 1969.

Cost of each print is \$75. All profits from the Limited Edition Series will be used to establish a campus scholarship fund

The standard "Joe Miner" print—8" x 10" in color—is available also at a cost of \$12.50 each. Order forms are below.

	ORDER FORM	
	(Please print or typ	e)
Quantity		Amour Enclose
	"Joe Miner" Limited Edition Pri	nts at \$75 each
	Shipping and handling	at \$5 per print
-	"Joe Miner" print(s) 8" x 10" (This offering is not part of the limited edition shipping & handling.)	
May be paid by Che	ck, MasterCard or VISA.	Total
Make checks payab	le to UMR.	
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	FOR OFFICE USE ONLY	
	Date Shipped	-

Address orders to:

University of Missouri-Rolla Office of Centralized Printing Rolla, MO 65401-0249

Terms and Conditions

Remember, \$60 per limited edition print sold will be used in a scholarship fund to aid meritorious students in achieving their educational goals, and is tax deductible.

Since the total number of prints in the limited edition series is one thousand it is recommended that orders be placed without delay. All orders will be numbered sequentially in the order received and will be filled on a first-come first-served basis. Orders will be filled commencing with the smallest number available. No request for a particular number will be considered.

All orders are subject to availability and any claims resulting from shipping error, misunderstanding or other cause incidental to an order will be limited to the initial purchase price. Please allow 4-6 weeks for delivery.

1925

George D. Gaines writes: "Wife fell Thanksgiving Day and broke left hip. New stainless steel ball is satisfactory. At home since Dec. 8. She spends lots of time in kitchen teaching me to cook." George is retired. He and Ethel live at 3642 Glenhaven, Houston, TX 77025.

1929

Glenn Crays' recent picture in an Arizona newspaper shows his Miner ingenuity. He used a mop clamp to fasten his golf cart to his bicycle five years ago, and still pedals half a mile to the golf course—cart intact—five or six times a week. Glenn and Virginia are enjoying retirement at 550 S. Abrego, Green Valley, AZ 85614.

Philip Hall Delano died in December of 1982, according to a phone call from his granddaughter who lives at 21-A Mara Road, Lake Hiawatha, NJ 07034. At MSM Philip had been a member of DeMolay, Tau Beta Pi, Phi Kappa Phi, Triangle, Sigma Xi, and was advertising manager and assistant business manager for the Miner. He received his B.S. degree in chemical engineering, an M.S. degree in the same field in 1930 and the professional degree, chemical engineer, from MSM in 1941. He served as an assistant in the MSM chemistry department in 1929-30 and was in MSM's chemical engineering department 1941-43. He had worked for Bay Chemical Co. in Louisiana, the Corps of Engineers in Montana and the Bureau of Mines in Alabama during the 1930s. After World War II, he became resident engineer for E.J. Lavino & Co. in Pennsylvania and continued to practice his profession in that state until his retirement during the 1960s.

1930

Strathmore R. B. Cooke, formerly professor of mineral processing and metallurgy and professor emeritus in geology, geophysics and astronomy at the University of Minnesota, died June 13, 1985. Dr. Cooke received B.S. and B.E. degrees from the University of New Zealand in 1928 and 1929, then came to MSM to teach metallurgical engineering under Professor Clayton, and earn M.S. and Ph.D. degrees from the University of Missouri. He was appointed research professor of mineral dressing at Montana College of Mineral Science and Technology in 1939 and moved to the University of Minnesota in 1946 where he taught until his retirement in 1974. Dr. Cooke became associated with Minnesota's Messenia expedition to examine and analyze metallurgical, lithological and earth samples excavated from a bronze age site in southwestern Peloponnese in 1967, and continued his activity after his retirement. His interests lay in mineral processing, metallurgy, geology, astronomy, botany and archeology and

he had a number of publications in each of these fields. His contributions to the minerals industry led to commercial flotation of potash, non-metallic and iron ores and to pioneering research on the mechanism of heat hardening in iron ore pellets. He received awards from AIME in 1978 and 1979. He is survived by his wife, Helen R. Cooke, 4408 N. Zenith Ave., Minneapolis, MN 55422.

1931

Elmer J. Sperling writes: "March is our biggy—our son and daughter-in-law's adopted girl will be 3-months-old and our oldest daughter's grandsons, our great grandsons will be 4 and 2 years old." Elmer and Virginia live at 212 Papin Ave., Webster Groves, MO 63119. Elmer is now self-employed as a consulting engineer—hydraulics, sanitary and storm sewers.





1985 Rollamo

1932

Homer and Auttie Thompson celebrated their golden wedding anniversary on Oct. 29, 1985. They are planning a trip to Hawaii this year. Homer and Auttie live at 4101 Lochridge Road, North Little Rock, AR 72116.

1933

Lee D. Dumm is retired. He and Norma reside at 1054 S. Reed St., Lakewood, CO 80226. Lee writes: "My son C. Douglas, ('72) is now manager, new business development, marketing and sales, parts rehabilitation and spares with Xerox Corp. in Webster, N.Y. His home address is RD 2, 8658 Route 5 & 20, Holcomb, NY 14469."

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Robert L. Cunningham, '34, '37, writes: "I hope to get down to dear ole MSM-UMR soon—see you all and how everything is going." Robert, who is retired, lives at 6123 Kingsbury, St. Louis, MO 63112.

Richard G. Hudson writes: "Sold off 83 acres of farm—not farming any more. Hope to go to Lake of the Woods, Ontario for fishing. Have good health and a lot of work in garden and yard · three acres. Wife is also in good health." Richard and Ellen live at 72851 Eighth Street Road, Guernsey, OH 43741.

1935

Howard B. Colman died in December as a result of pancreatic-liver cancer, according to a note from his wife, Eugenia Colman, 594 Country Club Road, Bridgewater, NJ 08807. At MSM Howard had been a member of ROTC and the Officers' Club. He received his degree in chemical engineering. Following graduation, he worked for the U.S. Flood Control Survey in Cooperstown, N.Y. He later joined Nopco Chemical Co., then American Cyanamid Co. in New Jersey. He retired as manager of engineering for American Cyanamid in 1980. Howard and Eugenia attended the MSM-UMR 50th reunion ceremonies in Rolla last May. Eugenia says, "Howard always considered he received a fine education at the School of Mines."

W. F. Cooke, Jr. writes: "Had 50th wedding anniversary February 14, 1986. Worked for Atlantic 1936-43." William is owner of Acco Oil and Gas Co., at 800 Tully, No. 204, Houston, TX 77079.

August P. Koopmann writes: "Looking forward to again meeting the gang at another reunion. The 50th reunion was a memorable one." August is retired. He and Dorothy reside at 9101 Flores Drive, St. Louis, MO 63123.



1985 Rollamo

1937

Samuel S. Post is a retired Colonel. He and Althea live at 502 Appaloosa Drive, Raymore, MO 64083.

1938

Robert P. Alger writes: "Recently have become advisor to Restech, a computer and petrophysical company in Houston, Texas. We work mainly on reevaluation of old oil fields by combining well logs, core analysis and good history." Robert and Louise's mailing address is P.O. Box 3, Buchanan Dam, TX 78609.

Allen D. Bliss moved last January from Santa Ana to 4911 Galicia Way, Ocean Hills, CA 92056.

Chip Prouty writes: "I retired from Department of Geological Sciences, Michigan State University in July 1985, and am now professor emeritus." Chip resides at 4690 Kingswood Drive, Okemos, MI 48864.

1939

Edgar and Hazel Pohlmann make their home at 5805 Goucher, College Park, MD 20740.

1940

Art Dennis Jr. writes: "After five years of retirement and four years of golf, made my first hole-in-one in March 1986." Art and Mildred live at 305 Crampton, North Fort Myers, FL 33903.

Ralph E. Kelley is now retired. He lives at 76 Squassick Road, W. Springfield, MA 01089.

1941

The death of Floyd R. Elliott on Dec. 29, 1985, has been reported by Nathan D. Jaffe, '41, 12814 Collins St., North Hollywood, CA 91607. At MSM Floyd was a member of the MSM Forum, the Shamrock Club and Phi Kappa Phi. He received his B.S. degree in ceramic engineering. Following graduation he served as an engineering officer on a U.S. Navy destroyer, then became an engineer with California Steel & Construction Co. According to Nathan, "Much of Floyd's business career was in the manufacture and installation of steel enameled industrial structures." He is survived by his wife, Virginia Elliott, 565 North Sunnyslope Ave., Pasadena, CA 91107.

Marvin C. Grisham writes: "Still enjoying retirement in this big state of Texas. Have good health and expect to enjoy my life for many years to come." Marvin lives at 1836 Pebble Brook Drive, New Braunfels, Texas 78130.

1942

George and Mary Jo Dahm have moved to 217 Mustang Trail, Kerrville, TX 76028.

Gene Gottschalk has retired. Gene and Nelva make their home at 6341 Benton Road, Route 9, Paducah, KY 42001.

1943

D. J. Coolidge is a retired architect engineer. His and Helen's mailing address is P.O. Box 1720, Wasilla, AK 99687.



JACK E. FLEISCHLI

Jack E. Fleischli brings us up-to-date on his activities. He writes: "Served as a naval officer after graduation until 1946, at which time I worked for Phillips Petroleum Co. until 1950. Then moved to Southern California. From 1950 to 1968 I served as vice president of a large bearing and power transmission distributor and after that founded Capitol Oil & Grease Co. which sells in-

dustrial lubricants in the USA, Chile and Japan. In 1982 I became less active in Capitol Oil & Grease Co. although I continued to be the major stockholder. I then became an insurance underwriter for Aid Association for Lutherans. AAL is ranked in the upper 2 percent of all insurance companies in life insurance in force. During the past four years, have been in the upper 3 percent of some 2,000 representatives throughout the United States, in health, life insurance and annuities. I have been a very active Lutheran layman over the past 35 years. Past president of three different Lutheran congregations, former member of the Board of Directors of the Lutheran High School, Orange, Calif., a member of the Board of Trustees of the Lutheran Church Missouri Synod Foundation, senior vice president; past president and member of the Christ College Irvine Foundation Board of Trustees, and a member of the Board of Directors of Lutheran Bible Translators. Aurora, Ill." Jack is married and has four children and three grandchildren. He lives at 27602 Escuna, Mission Viejo, CA 92692.

Gene S. Martin is now an attorney-atlaw in Springfield, Mo. Gene and Donna's mailing address is P.O. Box 271, Lamar, MO 64759.

John O. Wilms is now president of J & L Distributors. He and Phyllis live at 17700 South Avalon, No. 59, Carson, CA 90746.

1944

Richard S. Mateer is a professor at the University of Kentucky. Richard and Myrtle live at 247 Shady Lane, Lexington, KY 40503.

1947

Philip D. Johnson writes: "Recovering from Jan. 1, 1986, heart attack." Philip is retired. His and Louise's mailing address is Route 1, Box 5, Rice, WA 99167.

Arliss Virgil Martin died March 6, 1986, according to notice received by the University. At MSM he was a member of Alpha Chi Sigma, AIChE, the Engineers Club, Photography Club and was a student assistant in the chemistry department. He received his B.S. degree in chemical engineering, and M.S. and Ph.D. degrees in the same field in 1951 and 1963. A native of Salem, Mo., he taught and worked in industry following graduation, until returning to MSM in 1952 to serve on the faculty here until 1968. He later taught at the Institute Algerian du Petrole in Bounerdes in Algeria, the University of Petroleum and Minerals, Dhahran, Saudi Arabia, and the Abadan Institute of Technology in Abadan, Iran. At the time of his death he was a member of the faculty at Mississippi State University. Arliss is survived by his wife, Ruth, Route 2, Salem and four children.



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Thomas and Peg Austin Jr. have moved to 42A Calle Aragon, Laguna Hills, CA 92653.

E. R. Broadbent is retired. He is a land surveyor as retired hobby - job. His mailing address is 533 Royal St., P.O. Box 515, St. Francisville, LA 77075.

James B. Chaney is now self employed. He and Betty live at 16218 Chipstead, Spring, TX 77379.

John Griessen III writes: "Retired as sales manager ITT Hildebrandt and am now sales engineer for Brice Co., representatives for a number of I and E lines to the gulf coast petro chem markets and the oil patch." John and Barbara reside at 3415 Graustark, Houston, TX 77006.

Comer C. Haley writes: "My field consulting work took me to Australia and Brazil last fall for Westinghouse, also Mexico - I enjoyed it. I am a life senior member of the Institute of Electrical and Electronic Engineers." Technically he's a retired senior engineer for Westinghouse. Comer and Martha Ruth's mailing address is RD 7, Box 7684, Mercer, PA 16137.

Raymond J. Juergens has been elected to the position of staff manager — McDonnell Douglas Corporation Fellow. He continues to be responsible for composite materials and process development efforts for McDonnell Aircraft. Raymond resides at 18015 Shepard Ridge Road, Glencoe, MO 63038.

Gilbert S. Keeley is now manager of licensing with Tug Co. in Dallas, Texas. He and Mary live at 1212 Gonzales, Mesquite, TX 75150.

Lawrence F. O'Neill writes: "Retiring on June 30, 1986, from Washington University. I was recently selected as an arbitrator for the American Arbitration Association." Lawrence and Becky reside at 448 Wildwood Parkway, Ballwin, MO 63011. He is administrator of physical facilities at Washington University.

Wilbert F. Stoecker, professor of mechanical engineering at the University of Illinois-Urbana, has been appointed scientific advisor of the International Institute of Ammonia Refrigeration (IIAR) at the association's Board of Directors' meeting held in Chicago in November. In addition to his association with IIAR, Wilbert is a member of the International Association Refrigerated Warehouses and the American Society of Heating, Refrigerating and Air Conditioning Engineers. His mailing address is 144 Mechanical Engineering Building, 1206 West Green St., Urbana, IL 61801.

1949

George M. Anderson writes: "I recently accepted early retirement from the Harbison Walker Refractories Division of Dresser Industries Inc. after 36 years of service. I retired as manager, western and central districts, mines. I will do some future traveling, but will remain a resident of Fulton at my current address." George's mailing address is Route 1, Box 311, Lamar, Fulton, MO 65251.

James G. Clifton is newly retired. James and Shirley make their home at 832 Providence Ave., Webster Groves, MO 63119.

Roy I. Coplen Jr. has moved from Jefferson City, Mo. to 129 Linda, Sikeston, MO 63801.



JAMES I. MUELLER

James I. Mueller, professor of ceramic engineering at the University of Washington in Seattle and a past president of the American Ceramic Society (ACS), has been named the 39th recipient of the Albert Victor Bleininger Award for distinguished achievement in the field of ceramics. Jim has been a member of the faculty at the University of Washington since 1949. He is a Fellow of ACS and was named the first honorary life member of that organization in 1978. He is currently the first president of the American Advanced Ceramic Association. He was a member of the Advisory Committee to NASA's chief engineer on the thermal protection system for the space shuttle from 1978-81, and subsequently received the NASA Public Service Medal. He has received numerous honors from several professional and honorary societies. Jim's home address is 209 Caspers St., Edmonds, WA 98020.

Oliver W. Jones writes: "My wife, Eohla, passed away last June 24th. I plan on retiring this year from IRS." Oliver is a tax law specialist with the IRS in Washington, D.C. He resides at 3655 Malibu Circle, Falls Church, VA 22041.

1949 continued

Oliver V. Smith died Sept. 7, 1985, of a heart ailment. At MSM Oliver had been a member of Pi Kappa Alpha and Alpha Chi Sigma. He received his B.S. degree in chemical engineering. Following graduation, he was with the Missouri State Highway Department, McDonnell Aircraft Corp., Texas Instruments and, at the time of his death, was a chemical engineer in quality assurance at the Morton Thiokol Chemical Corp. in Brigham City, Utah. He had served as a pilot during World War II, flying the "Hump" in the China-Burma Theater. He is survived by his wife, Margaret Smith, 3800 South 1900 West, No. 188, Roy, UT 84067, a son, a daughter and one grandchild.

1950

George H. Kees retired in April 1984. He and Doris reside at 531 Baseline, Grand Island, NY 14172.

Carl K. Mann is now manager - subcontracts with Nooter Corp. He and Norma live at 5115 Towne South Road, St. Louis, MO 63128.

Jack P. Steuterman is now a sales engineer with Steward Steel. Jack and Jane live at 810 A Wakefield, Sikeston, MO 63801.

Bob Strain is retired. He now resides at 1539 Hummingbird Hill, Ellisville, MO 63011.

Kenneth H. Yochum writes: "Retired from Phillips Petroleum on July 1, 1985, after 33 years in R & D." Kenneth and LaVerne reside at 1244 S.E. Grandview, Bartlesville, OK 74006.

1951

William A. Givens writes: "It's rough in the oil patch!" William is an assistant vice president, manager drug and production with Woods Petroleum Corp. in Oklahoma City, Okla. He and Shirley live at 13901 Westcreek Road, Piedmont, OK 73078.

J. E. Perryman writes: "I retired last year after 35 years at Caterpillar. We have no plans other than to stay in Peoria, play golf and head for the sunbelt in the winter." Joseph and Nancy live at 1821 W. Sunnyview, Peoria, IL 61614.

Richard Phelps sends a new address: 4318 Briarwood Court, York, PA 17404.

Robert H. Seip is an area manager with Pennsylvania Glass Sand Corp. in Mill Creek, Okla. Robert and Ruth live at 2023 Lakeview Drive, Sulphur, OK 73086.

William B. Vose writes: "Retired in November 1982. Enjoying retirement after 30 years with U.S. Steel Corp. Swimming weekly. Enjoying visiting frequently our grandson, Ryan William, in Hobart, Ind., with my wife Roma who retired from teaching in November 1984. We plan to attend 1986 Homecoming." William and Roma live at 1272 Delfield, Bethel Park, PA 15102.

1955

Frank L. Carroll, '55, '75, has been promoted to bridge division engineer with the Missouri Department of Highway and Transportation. He has been with the department for 30 years. Frank, wife Jane and their two children make their home at Route 1, Box 268B, Willow Springs, MO 65793, but will be moving to Jefferson City.

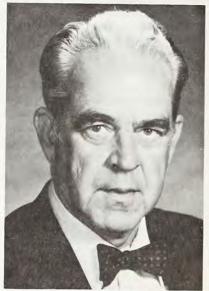
George James Sabris Jr. is currently working for the Air Force. Jim and Judy make their home at 203 Patton Drive, Warner Robins, GA 31093.

1956

Dale E. Chapman is manager of Coulton Chemical Corp. in Toledo, Ohio. He and Mary Ellen reside at 8741 Garden Road, Maumee, Ohio 43537.

1957

Robert W. Becker writes: "Elected director of Ballwin Fire Protection District 1985." Robert is a plant manager with Allied Gear and Machine. He and Carol now live at 1302 Bear Canyon Road, Ballwin, MO 63021.



DON R. BOWERS

Don R. Bowers, '57, '71, writes: "Formerly with the Monsanto Co. and have now joined the marketing group in the industrial and advanced technology division of the Sverdrup Corp. as director, chemicals and pharmaceuticals. Was with Monsanto Co. for more than 28 years before joining Sverdrup." Don resides at 17531 Wild Horse Creek Road, Chesterfield, MO 63017.

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ROBERT FULLER

Robert Fuller, professor of physics at the University of Nebraska-Lincoln, was one of six college faculty members nationwide honored March 14 for academic leadership by the American Association for Higher Education and the Carnegie Foundation for the Advancement of Teaching. Earlier this year, on Jan. 28, he received a distinguished service award from the American Association of Physics Teachers at their annual meeting in Atlanta, Ga. During his career he has pioneered the use of computers in physics teaching; developed the first interactive educational videodiscs; produced a series of NASA filmloops from Skylab missions; helped launch a national series of workshops on reasoning and teaching; coauthored a physics textbook with his father and brother, also physicists; and currently directs a multidisciplinary program designed to teach freshmen abstract thinking. Robert and Margaret reside at 3443 W. Pershing Road, Lincoln, NE 68502.



LLOYD REUSS

Lloyd Reuss, former head of the Chevrolet-Pontiac-GM of Canada Group, has been given another boost in the General Motors hierarchy. He has been named head of the North American car group (all GM cars) and is now a member of GM's executive committee. Lloyd's home address is 691 S. Hill, Bloomfield Hills, MI 48013.

1958

Jerry R. Ennis moved last February from Arlington, Va. His new mailing address is P.O. Box 475, Casper, WY 82602.

Donald C. Micka is now an engineering consultant with Mobil Oil. He and Mary Ann reside at 1680 Filmore, New Orleans, LA 70122.

1959



FRANK D. CAVALIER

Frank D. Cavalier is president of his own international sales/marketing consulting firm called Cavaco International. He organizes sales/distribution networks in Europe for U.S. firms, sets up sales/distribution networks for European firms, and brings together European reps with U.S. manufacturers in the high-tech electronic components and small systems and/or sub-systems market. Frank was formerly with TRW Electronic Components Group from 1964 to 1984. In January 1984 he was appointed vice president of marketing for Metropolitan Circuits Inc., a division of Nuclear Data, in Santa Ana, Calif. He established Cavaco International in September 1985. Frank was first employed by RCA in Camden, N.J. He received an M.B.A. degree from Southern Methodist University, Dallas, Texas, in 1982. Frank is married and has three children. They reside at 22621 Wood Shadow Lane, El Toro, CA 92630

1960

Gerald B. Allen writes: "Oldest son is a programmer/analyst in Southern California. Youngest son is at Cal Poly going for a B.S. in EE. Daughter in seventh grade in San Carlos. Wife just finished a year as president of San Carlos Newcomers." Gerald is now vice president in the chemical department for Wilson and Geo. Meyer and Co. in South San Francisco, Calif. The Allen family lives at 3281 La Mesa Drive, San Carlos, CA 94070.

Carrol and Doris Blackwell moved last February from Ferguson, Mo., to 20819 N.W. Yoncalla Court, Portland, OR 97229.

Henry L. Ponzer writes: "In charge (president) of Ponzer-Seers-Youngquist's Blue Springs office. PSY has expanded its service to include land surveying. Land surveying is headed up by Harry Sherley, a longtime RLS and industrial measurement specialist." Henry and Mary live at 11219 Wornall, Kansas City, MO 64114.

1961

Henry N. Peterson died of an apparent heart attack on Feb. 10. At MSM Pete was a member of Lambda Chi Alpha, the MSM Glee Club, AIEE-IRE, APO, BSU, Blue Key, was vice president of the "M" Club, earning letters in football and track, and a member of Eta Kappa Nu. He received his B.S. degree in electrical engineering and earned an M.S. degree in the same field from UMR in 1966. Pete had been with Texas Instruments Inc. since his graduation and, at the time of his death, was manager of the company's advanced products division. He is survived by his wife, Ann Peterson, 604 Sharon Drive, Johnson City, TN 37601, two sons, his mother and a brother.

Ronald P. Prothero writes: "Ron, under his pseudonym Claude MacKrell, was elected to membership in the Poetry Society of Tennessee. His poem 'Campfire at Lake Okalowa' won a first-place prize in the Mid-South Poetry Festival. It is scheduled for publication in the anthology, Tennessee Voices." Ron lives at 1074 Woodbury, Memphis, TN 38111. He is employed by Memphis City Schools.

Carl D. St. Onge is the department head, mechanical design department, for Martin Marietta Engineering Systems. Carl and Gloria live at 312 Delaware Ave., Oak Ridge, TN 37830.

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1962

Kenneth C. Scott has moved from Grosse Ile, Mich., to 1 South Moreland Place, Decatur, IL 62521.

Dalichand O. Shah is currently residing at 10382 Beau Jardin, St. Louis, MO 63146.

1963

John V. Knopp has moved to 10407 SE 174, Apt. 1207, Renton, WA 98055. John is now principal engineer for Boeing Co. of Seattle, Wash.

Harry J. Leamy, with AT&T Bell Laboratories, has been awarded the Materials Research Society's 1985 Woody Award for outstanding organizational talents, energy, and service to the Society. Leamy was president of MRS in 1983 and has served the organization in many capacities. Harry lives at 26 Tulip St., Summit, N.J. 07901.

Stanley K. Nodland writes: "After six years serving as city engineer, I was appointed deputy director/public works in charge of engineering, building and zoning and real estate as well as special projects officer for major projects such as a new \$24.5 million convention center." Stanley and Connie live at 4106 Fawngrove Road, Jacksonville, FL 32211.



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Paul J. Bass has moved from Bellevue, Neb., to 119 Upland Drive, Council Bluffs, IA 51501.

Ronald A. Hansen writes: "I have accepted a position as manager of civil, structural, and architectural engineering for the Belcan Corp. I still live at 9 Shamblin Drive, Florrissant, MO 63034 with Sandy and children, Laura, 19, Craig, 16, and Dennis, 14."

Robert L. Keiser has been named to a newly created operations position at Sun Explorations and Production Co. and will be responsible for all of Sun E&P's overseas offices and production operations. Robert joined the company in 1965 and, at the time of his promotion, was domestic regional production manager.

William C. Moreland moved from St. Louis, Mo. to 1512 Timber Trail, Jefferson City, MO 65101.

Donald G. Schnake now receives mail at Marathon Petroleum Co., Michigan Refining Division, 1300 South Fort St., Detroit, MI 48217.

1966

Notice has been received of the death of Harry E. Dunn on Dec. 20, 1984. At UMR Harry was a member of Independents and Spelunkers. He received his degree in geology. Following graduation he worked for American Zinc, Lead and Smelting Co. in Missouri and Virginia, then moved to U.S. Borax & Chemical Co. where he was eastern region exploration manager at the time of his death. He is survived by his wife, Mrs. H. E. Dunn, 3228 Boomerang Lane, Knoxville, TN 37921, and two children.



ROBERT W. HOGUE

Robert W. Hogue has been elected president of the Illinois Chapter of the American Public Works Association. He has been the city engineer for the City of Decatur, Ill., since 1978 and is a registered professional engineer in three states. Robert resides at 410 Hackberry Drive, Decatur, IL 62521.

John W. Mohr, '66, '67, writes: "I am the development coordinator for command and control systems in the research, development and studies division of headquarters, United States Marine Corps. in Washington, D.C. I've recently been selected for promotion to the grade of Colonel." John and Wilma reside at 3433 Mt. Burnside Way, Woodbridge, VA 22192.

Lowell Patterson has recently accepted the position of director of public works in Columbia, Mo. After two years with the Corps of Engineers in Memphis, Tenn., Lowell spent 16 years in West Plains city government, and has been city administrator in Willow Springs since 1984. In Columbia he will supervise 236 employees and be in charge of a budget of \$13,220,000.

James A. Schoeffel is now marketing manager for ATEQ Corp. in Beaverton, Ore. He and Nikki live at 928 NW Silverado, Beaverton, OR 97006. Stephen Seitz has recently moved from Battle Creek, Mich., to 29 Carmen Hill, No. 1, New Milford, CT 06776.

1967

William C. Castle has a new address: 7919 Springway Road, Ruxton, MD 21204.

Eugene A. Degenhardt writes: "I am the value engineering officer for the U.S. Corps of Engineers in St. Louis and have just become a certified value specialist. Korlyn and I have a 14-year-old son, Karl, and a 6-year-old daughter, Kathy. I still find time to do some occasional spelunking." The Degenhardt family resides at 2279 Aileswick Drive, St. Louis, MO 63129.

James F. Gruenloh is now plant engineer for PPG Industries at Mt. Zion, Ill. James and Kathy make their home at 5140 Melwood Court, Decatur, IL 62521.



1985 Rollamo



1985 Rollamo

1967 continued

Paul L. Inman is now a senior project engineer for Safelite Division, Lear Siegler Inc. He lives at 11519 Par Lane, Wichita, KS 67212.

Charles H. McGrady is currently employed by Bechtel Power Corp. in Gaithersburg, Md. He and Sally Ann live at 12407 Keynote, Bowie, MD 20715.

D. A. "Denny" Rigas has been appointed divisional vice president of Process Systems Sales for Forney Engineering Co., a subsidiary of Foster Wheeler Corp. In his new position he will be responsible for sales in North America. Denny joined Forney Engineering in 1979 after working for Davy McKee and B.F. Goodrich Co. He lives at 2816 Carriage Lane, Carrollton, TX 75006.

1968

Robert Judson Smith is now director, parallel processing program, for MCC in Austin, Texas. Robert and Valerie live at 4120 Edwards Mountain Drive, Austin, TX 78731.

NOTICE

The Alumnus received and printed an erroneous report of the death of **John J. "Jack" Howard.** We are happy to apologize for the mistake and tell everyone that Jack may be reached at 2327 Ann Ave., No. A, St. Louis, MO 63104.

Marc and Janet Solomon have recently moved to 1100 Denton Road, Winter Park, FL 32792. Marc is manager of information systems for Premier Cruise Lines at Port Canaveral, Fla.

1969

Bradley H. Hornburg has recently accepted the position of president of Ellerbe Builders Inc. Ellerbe Builders Inc. provides design/build, construction management, project management, and construction consulting services in commercial, industrial and medical facilities. Bradley lives at 934 Baintree Lane, Manchester, MO 63011.

Glenn M. Kmecz, '69, '72, is now a project manager with DuPont in Richmond, Va. He and Pamela live at 10304 Gention Place, Chesterfield, VA 23832.

Harry Salomon writes: "We recently formed a new company — Amptron Electric Co., an electrical contracting firm with special emphasis on energy managements." Harry lives at 9919 Gerald, St. Louis, MO 63128.

Terry Tolliver, '69, '72, '82, has been appointed a Fellow in Monsanto Co.'s program to recognize those individuals making significant, continuing technical contributions to the company and their specific disciplines. Terry is a chemical engineer with the company and his field is process control technology. Terry's home address is 5 Wedgewood Lane, St. Louis, MO 63141.

1970

J. Daryl Breeden is now vice president, product operations, with Kores Nordic (USA). Daryl and Barri live at 225 Brailsford Road, Summerville, SC 29483.

Charles E. Byers writes: "I have completed my 15th year with the Illinois Department of Transportation — Division of Highways — and my wife and I are expecting a baby in mid-February." The Byers live at 2024 Lebanon Ave., Belleville, IL 62221.

Ronald L. Griesenauer writes: "Recently joined Storz Instrument Co. of St. Louis as a director of manufacturing SMR Operations. Also recently re-elected as a town trustee for Weldon Spring, Mo." Ronald and Deronnda live at 5863 Lafayette, St. Charles, MO 63303.

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Michael Refracto writes: (38) get grown, (4) gettin good he family Mexico,

Dennis moved to OH 458 manager Ohio.

1970 continued

Timothy J. Kwiecinski is now chief metallurgist for Stanadyne Diesel Systems. Tim and Christine live at 14 Michael Lane, Windsor, CT 06095.

William R. Lewis is now a deputy director with Dallas Water Utilities. He and Cheryl live at 5707 Cliff Haven Drive, Dallas, TX 75236.

David M. Massey is now employed by Paducah Power System as a senior engineer. David and Sandra receive mail at Route 2, Box 262, Paducah, KY 42001.

Mary B. Reissen (Sister) is currently receiving mail at c/o Pax Christi International, 777 UN Plaza 48-2, New York, NY 10017. She is a member of the School Sisters of Notre Dame, St. Louis.

Thomas F. Wolff is now an assistant professor with Michigan State University for the department of civil and environmental engineering in East Lansing, Mich. He was previously with the Corps of Engineers in St. Louis. Tom resides at 4326 Manitou Drive, Okemos, MI 48864.

Robert H. Yowell Jr. is now a compression engineer with Texas Oil and Gas Corp. in Dallas, Texas. Robert and Paula live at 2904 Mollimar, Plano, TX 75075.

Michael R. Yount is with National Refractories and Minerals Corp. He writes: "Mike (37) getting bald, Kathy (38) getting tired, Michelle (14) getting grown, Melody (12) getting smart, Mark (4) getting fat. Wish all of our classmates good health and happiness." The Yount family lives at 1514 Webster Drive, Mexico, MO 65265.

Dennis and Mary Zullig have recently moved to 1704 Windsor Place, Findlay, OH 45840. Dennis is now operations manager for Union Carbide in Fostoria, Ohio.

1971

Carl H. Gehring is now a colonel in the United States Army at Ft. Huachuca, Ariz. Carl and Darlyne live at 159A Grierson, Ft. Huachuca, AZ 85613.

Vipin Kuckreja is now a regional manager with Calgon Carbon Corp. in Bridgewater, N.J. Vipin and Meera live at 36 Appletree Road, Flemington, NJ 08822.

Jerry Lachner writes: "Jerry and Judi are loving the Omaha area even with two teenage boys, Seth, 15, and Jay, 14. Jerry is currently serving at head-quarters, Strategic Air Command, as chief of the advanced missile systems integration branch. Judi is an administrative assistant for Planning Research Corp." The Lachner family resides at 1002 Berkley Ave., Papillion, NE 68046.



JOHN E. MEECE

John E. Meece has been named manager of mechanical engineering design and fabrication for the communications products business area of E-Systems, ECI Division. John was formerly senior program manager, data products, for the company. He lives at 1348 51st Ave. N.E., St. Petersburg, FL 33703.

G. Dan Smith, '71, '73 has joined Science Applications International as a senior staff member, primarily in consulting services in nuclear safeguards and security. Dan and Phyllis live at 20704 Highland Hall Drive, Gaithersburg, MD 20877.

Barry and Sue, '72, Winscher have moved from Murfreesboro, Tenn. to 998 Ottawa, Claremont, CA 91711.

1972

William M. Black writes: "Have recently moved to North Carolina and accepted a position as staff actuary with W. E. Stanley & Co. Inc. in Greensboro, N.C." William and Jane live at 1-F Yester Oaks Circle, Greensboro, NC 27408.

Samuel C. Bradshaw is living at 14201 N. 20th Way, Phoenix, AZ 85022. Samuel is currently chief, operation and maintenance section, for Indian Health Service in Phoenix.

Alan W. Carson writes: "In November 1985, I was promoted to supervisor, civil/structural, facilities engineering for Olin Corp., the operating contractor of Lake City Army Ammunition Plant, Independence, Mo. Nancy and I are enjoying being in the Kansas City area again." Alan and Nancy make their home at 3721 Chapel Drive, Lee's Summit, MO 64063.

Arthur A. Kohlberg is a manager of engineering, corporate packaging and shipping, with Anheuser-Busch Co. He now lives at 2828 Fordham, St. Louis, MO 63129.

Eugene C. Hunziker has moved from Irvine, Calif., to 22 W. 410 Walnut, Medinah, IL 60157.

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1985 Rollamo

1972 continued

Raymond F. Laramie Jr. writes: "Managed to change careers a few years ago from computers to airplanes but stayed with the same company. Flying for United Technologies Corp. as a corporate jet captain. I'm not letting computer science degree go to waste. Am in charge of project tying five bases and 21 aircraft together in a common scheduling and tracking system." Ray and Ellen live at 1079 A Boston Turnpike, Bolton, CT 06040.

Richard B., '72, '74, and Dawn (Gant, '75) Schuessler write: "Richard and Dawn announce the birth of a daughter, Lindsay Dawn, on Nov. 4, 1985. Rich, Dawn, & Lindsay are now living at 838 Garonne Drive, Ballwin, MO 63021. Rich and Dawn are still working at Washington University Medical School in St. Louis."

Steven M. Thomas is now senior systems engineer for Scientific Software Engineering Inc. of Merritt Island, Fla. He and Linda are currently living at 1524 Cone Ave., Apex, NC 27502.

John Welte has been named vice president for the St. Louis division of The Benham Group. Previously, John served as manager of the division electrical engineering department. John is a registered professional engineer in the states of Missouri, Florida and Alabama. He is also a member of the St. Louis Electrical Board of Trade and the International Association of Electrical Inspectors. John's recent projects have included a materials receiving building and various snack food, bakery, and brewery projects for Anheuser-Busch and can and lid facilities for Metal Container Corp. Before joining The Benham Group in 1982, John served as an electrical engineer with Fruco Engineers in St. Louis. John lives at 4509 Frederickton Court, St. Louis, MO 63128.

John P. Werthman Jr. is now living at 7203 E. 132 St., Grandview, MO 64030.

1973

Gregory T. Anderson writes: "I have taken over as general manager for Tadco. Tadco supplies screen-printed products to the O.E.M. market. Gregg and Ruth (Legsdin) and their two children, Sara and Grant, presently reside at 115 Old Essex Road, Manchester, MA 01944."

John C. Killinger writes: "Very much enjoyed seeing Frank Mackaman, Don Brackhahn, Dr. Barr, and all miners and guests present at the "Happy Hour" at the SME-AIME Convention in New Orleans. Still employed with Texaco New Orleans Exploration and watching the oil prices very carefully!" John is an exploration planning coordinator with Texaco. He and Marybeth now live at 836 Wilshire Blvd., Metairie, LA 70005.

William L. Lane writes: "My wife, Leann and I now have three wonderful children - Jillian, (6), Adam, (4) and Erica, (1)." William is director of mining research with St. Joe Lead Co. The Lane family's mailing address is Box 373, Viburnum, MO 65566.

Clarence M. Miller III is now a program engineer for Advanced System Technologies in Englewood, Colo. He and Andrea live at 4004 Emerald Drive, St. Charles, MO 63303.

1974

Dennis Anderson is now a staff chemist for Engelhard Corp. in Edison, N.J. He and Lucy live at 35 Linden Lane, Plainsboro, NJ 08536.

James J. Barbarito has been named market manager of ECPI's (Eastman Kodak—Tennessee Eastman Co.) new Plastics Additives Market Development Group. Jim joined ECPI's coatings and chemicals as a marketing trainee and has earned several promotions since that time. Prior to his new appointment he served as resource analyst, ECD general management and staff. He lives at 3305 Pine Timbers, Johnson City, TN 37601.

Marsha S. Evans writes: "Our first child, Jonathan Lee Evans, was born Feb. 21, 1986." Marsha is with Phillips Petroleum Co. The Evans reside at 3701 Ravenwood Drive, Bartlesville, OK 74006.

William J. Faner now lives at 9815 Binter Lane, Wichita KS 67212.

Patricia Hanson is now living at 1103 Jamaica Road E., Jacksonville, FL 33216. 1974 Vance

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Vance N. Havens writes: "I am busier than a cranberry merchant, working on Space Station. We are still pursuing an (ORC) Organic Rankine Cycle engine for the power system - doing advanced development work on receiver, thermal storage, heat pipe, engine design, twophase fluid management in microgravity. Also we are working thermal bus for station with our patented two phase thermal management system. That looks real good for being on board. Would be happy to come to campus to discuss these and other activities we are into. 800 new employees in 1985 and 400 more planned in 1986 - would like to get some of that good UMR quality in here." Vance is a group engineer for Sundstrand Energy Systems. His mailing address is 4747 Harrison Ave., P.O. Box 7002, Rockford, IL 61125-7002.

Jerry W. Heavin is now a general production engineer with Union Pacific. Jerry and Marla have moved to 100330 Z St., Omaha, NE 68127.

Michael J. Miller writes: "As the first Rolla Sigma Gamma Tau chapter president, I encourage all aerospace alumni to 'pitch in'; lend a hand in this most worthy cause. Let's help others benefit, as we did, in starting a great profession from an excellent school." Michael is a major with the United States Air Force, He lives at 7102 Ridge Cove Drive, Converse, TX 78109.

Rolland and Sandra Ponzer have moved to 14007 Winchester Court, Grandview, MO 64030. Rolland is now an applications engineer for Shaum Manufacturing Inc. of Elkhart, Ind.

Dawn (Gant) and Richard B. '72, '74, Schuessler write: "Dawn and Richard announce the birth of a daughter, Lindsay Dawn, on Nov. 4, 1985. Rich, Dawn, and Lindsay are now living at 838 Garonne Drive, Ballwin, MO 63021. Rich and Dawn are still working at Washington University Medical School in St. Louis."

Randy L. Stranghoener writes: "My wife, Patricia M. Dubbert, and I were blessed with our second son, born on Feb. 9, 1986." Randy and family live at 5855 Medallion Drive, Jackson, MS 39211. Randy is employed by Cities Service Oil and Gas Corp.

Harry A. Ward now lives at 5704 Ballentine, Apt. C, Shawnee, KS 66203.

James H. Martin writes: "Now stationed at the Naval Air Test Center in Maryland working in the aircraft intermediate maintenance department. We do testing on every type of aircraft in the Navy/Marine inventory. Also have the Surface Effect Ship facility next door. The Test Center does have a small summer hire and co-op program. All aero types should check into it, EE's also." James' address is 68 Holly Hill, California, MD 20619.

Michael M. Perry now lives at 845 South Mission, Springfield, MO 65804.

Dennis Stuart, his wife, Susan, and two children currently reside at 22307 N. Rebecca Burwell, Katy, TX 77449. Dennis is manager of operations engineering for Conoco Inc.'s natural gas products department.

1975

John H. Branstetter writes: "Recently I have moved to Springfield, Mo. where I have accepted the position as an assistant director of physical plant administration and engineering services with Southwest Missouri State University." John lives at 2547 W. Roxbury, Springfield, MO 65807.

Joseph J. Ebert is a civil engineer III with the City of St. Louis. He resides at 6100 Archwood, St. Louis, MO 63123.

1976

Kathleen L. Doyle-Boothe's mailing address is now HHD, 70th Trans. Bn., APO, New York 09028-5000.



1985 Rollamo

1976 continued

Roger E. May is currently a field support engineer at Dresser Atlas head-quarters in Houston, Texas. Roger lives at 21207 Park Valley Drive, Katy, TX 77450.

Danny Krebs, '76, '78, '81 and wife Carolyn, former research assistant at UMR, are currently both lead engineers for McDonnell Douglas Astronautics. Danny and Carolyn live at 2758 Cumberland Landing, St. Charles, MO 63303.

Paul D. Porter writes: "I had the opportunity to be involved in the construction of the first segmental post-tensioned I-girder bridge in the state of Missouri. Precast sections for this bridge were cast by my employer, Quinn Concrete Co. Inc." Paul lives at 718 N. Allen, Marshall, MO 65340.

Daniel H. Underwood writes: "Dan and Erin Underwood have just returned from a job in Australia with a new addition to the family in the making." Dan is a field engineer with General Electric in Evansville, Ind. The Underwood family resides at 4986 Jamestown Drive, Newburgh, IN 47630.



Donald C. Bingaman writes: "Donald and Janice reside at 233 Horseshoe Drive, Kirkwood, MO 63122. Don is a lead engineer in propulsion technology at McDonnell Douglas. Don and Jan are expecting their first baby in July 1986."

James A. Godar has moved from Severna Park, Md. to 6301 Galaxy Court, Bowie, MD 20715.

David W. Lee is a major in the U.S. Army serving as a brigade supply officer with the 7th Engineer Brigade in West Germany. David and Charlene's mailing address is HHC 7th Engr. Bde., APO New York, NY 09279.

Terry and Phyllis, '79, Panhorst live at 2310 Hazy Creek, Houston, TX 77084. Terry is working in precious metal exploration for Shell Mining Co. Phyllis is busy at home caring for their two kids, Jennifer, 2½, and Bryan, 1 year.

Boonsong Supornsilaphachai is now a structural engineer for Ludwig Steel Corp. in Harahan, La. He lives at 1905 S. Carrollton Ave., No. S, New Orleans, LA 70118.

Bradley J. Wyatt has been appointed senior chemical engineer assigned to the polyethylene No. 2 department with Texas Eastman Kodak. In his new assignment, Brad will be responsible for daily operations in the production of a variety of Tenite Polyethylene film and paper coating formulas. Brad and Pam live at 1809 Northwood Court, Longview, TX 75605.

1978

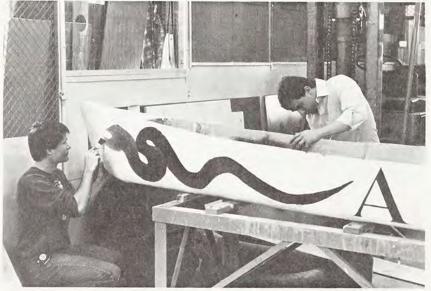
James H. Ehrhardt has recently married and hopes to buy a house soon. James and his new wife live at Route 1, Box 88, Elgin, IL 60120. Jim is with Pavia-Marting & Co., consulting engineers, in Rosella, Ill.

Jack Posey's new mailing address is P.O. Box 3063, West Lafayette, IN 47906.

Tony Sikavi writes: "I have been promoted to software support manager at Wordplex, Westlake, in charge of a group of six software engineers and software librarians overlooking development of OS and OS support utilities." Tony and Eliza now reside at 10645 Wilshire, No. 205, Los Angeles, CA 90024.

Carl Sisk writes: "Living in Cairo, Egypt, and working for Amoco International Oil Co. Kathleen and I have one boy, 4 years old, and another baby due in April. My address is Expatriot Egypt, P.O. Box 4381, Houston, TX 77210."

Gary J. Taggart writes: "JoAnne and I have moved back to Rolla (our home town). I am manufacturing engineer at Linscan Systems Inc. in Rolla." Gary and JoAnne live at 900 W. 13th St., Rolla, MO 65401.



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ROGER VESSELL

Roger Vessell continues as product manager of Coleman Co.'s marine division while assuming responsibility for the development of a new line of speciality products—Ultra Marine. Roger joined Coleman in 1981 and has been responsible for the marine product line of canoes, small boats and personal flotation devices for the past two years. He and Joan live at 424 Parkridge, Wichita, KS 67212.

Dale L. Wykoff is now a shift foreman at Quad Cities Nuclear Power Station (Commonwealth-Edison) in Cordova, Ill. He and Barbara live at 2417 11th St., Silvis, IL 61282.

1979

Walter R. and Ramona (Hooker, '80) Bilgram write: "Ramona and I live at 1351 W. 57th St., Davenport, IA 52806, with our 17-month-old daughter, Kristin. I am currently a project engineer for John Deere."

Mark K. Bortfeld moved from St. Charles, Mo. to 5067 Arrowood Lane North, Plymouth, MN 55442.



Lou Greer writes: "The Indonesian Alumni Section closed just before Christmas 1985 when Lou (president, vice president, secretary-treasurer and sole member) returned to the United States after working for Morrison Knudsen Co. in Indonesia for nearly 2½ years. Lou is now working for Morrison Knudsen Engineers at 1700 Broadway, Suite 1600, Denver, CO 80290."

Fred L. Bueler Jr. is owner/president of Bueler Custom Kitchens and Construction Inc. in Des Peres, Mo. Fred lives at 2199 Pardoroyal Drive, Des Peres, MO 63131.

John F. Eash writes: "Wife — Marie, son — Timothy (2 years). Senior engineer — flight test. After two years on assignment at Holloman Air Force Base, New Mexico, I will be returning to St. Louis in March of '86." John is with McDonnell Douglas Corp. The Eash family's new address is 4622 Briargate Drive, St. Louis 63301-7359.

Carl L. Jacobi has moved from St. Louis, Mo. to 150 Snowy Owl Lane, Fairbanks, AK 99712.

Ronald Krusie writes: "Last November I accepted the position of city engineer with Creve Coeur. Cindy and I, and our son Curt (now 18 months old), still live at 1269 Schulte Hill, Maryland Heights, MO 63043."

Craig S. O'Dear writes: "I recently became engaged to Kimberly Davis, a native of Oklahoma City and a graduate of Vanderbilt University (which is where we met). She is with Marion Laboratories here in Kansas City. The wedding will be in Oklahoma City on Sept. 27, 1986. I am still practicing law at the Stinson, Mag and Fizzell firm in Kansas City." Craig's mailing address is c/o Stinson, Mag & Fizzell, P.O. Box 19251, Kansas City, MO 64141.

Phyllis and Terry Panhorst, '77, live at 2310 Hazy Creek, Houston, TX 77084. Terry is working in precious metal exploration. Phyllis is busy at home caring for their two kids, Jennifer, 2½, and Bryan, 1 year.

James and Cathy Paul are now living at 2506 Neely, Midland, TX 79705. Jim is a petroleum engineer with Union Oil of California.

1979 continued

Mark W. Stefanik moved last February from Wesley Chapels, Fla., to 2109 38th Ave. South, Seven Springs, FL 33552.

Randall K. White has moved from St. Louis to 630 Stafford St., Washington, MO 63090.

1980

Matthew B. Carroll has moved from Pittsburgh, Pa., to 15 Midpark Lane, St. Louis, MO 63124.

Jeffrey Klug has been named district sales engineer for Rexnord's Mechanical Power Division, Milwaukee, Wis. Jeff, who works out of Pittsburgh, Pa., is responsible for sales in the Pittsburgh, Parkersburg, W.Va., and Buffalo, N.Y. markets. Jeff's home address is 511 Payne Hill Road, Clairton, PA 15025.

Wesley M. Steinbrink is now a petroleum geophysicist for Conoco. Wesley and Jeanette make their home at 815 N. Sunset, Ponca City, OK 74601.

Catherine Schearer was married to Frederick Judd Gosko on Jan. 11, 1986. Catherine is employed by Great Southern Life Insurance in Houston, Texas. Catherine and Frederick are at home at 5904 Fairdale, Houston, TX 77057.

Mark Viox writes: "Completed my MBA at SIU-E. Will marry Janet Knobbe (UMR '80) this fall." Mark is now an engineering supervisor with Container Recovery Corp. of Anheuser Busch. He lives at 9559 Fantasy Lane, St. Louis, MO 63126.

1981

Anthony A. Caiazzo writes: "Carrie and I are enjoying our new baby girl, Nichole Marie, and New England very much. Hope to see a few more UMR grads up this way." Anthony is with General Dynamics/Electric Boat Division. The Caiazzo family resides at 121 Meetinghouse Lane, Ledyard, CT 06339.



1985 Rollamo

Steven Ray Diffey is a mining supervisor for Consolidation Coal Co. Steven receives mail at Route 3, Roseland Lot 26, Sparta, IL 62286.

Billy Euell writes: "Mitzi and I are enjoying our new home in Sugar Land, Texas. Lots of challenges still for me at Shell Oil and for Mitzi at Alief School District." Billy is a communications engineer with Shell Oil. He and Mitzi reside now at 2823 Greenfields, Sugar Land, TX 77479.

Gregory J. Grindinger writes: "I'm a lieutenant in the U.S. Air Force. I will move to Ramstein Air Base, West Germany, in June. My wife, Cecilia, and I now live at 121 Wildwood Lane, Myrtle Beach, SC 29577."

Shahram Makanvand, '81, '82, is currently residing at 7724 Vicky Ave., Canoga Park, CA 91304.

Keith A. Ralston has moved from Long Beach, Calif. His new mailing address is c/o Raymond International Builders Inc., 901 Almonesson Road, Westville, NJ 08093.

Donna C. Ray is now a facilities engineer for McDonnell Douglas. Donna and James make their home at 2759 Steamboat Lane, St. Charles, MO 63301.

Jon Anthony Richards is now a senior engineer with Exxon Co. USA in Harahan, La. He lives at 2508 Elizabeth St., Metairie, LA 70003. He writes: "I've been transferred to a district reservoir engineering assignment where I handle offshore Grand Isle 16 oil field."

Mark T. Walker, '81, '82, is a manager, construction, for Gilbert/Robinson Inc. Mark lives at 10645 Jefferson, No. 309, Kansas City, MO 64114.

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1981 continued

Chuck Williams writes: "We're back in Rolla after a couple of years in the Houston, Texas oil patch. Enjoying the Ozarks and my new job as an engineering environmental geologist with the Missouri Geological Survey. Along the way Patty and I have added two little girls to our family - Natalie and Monica." The Williams mailing address is HCR 35, Box 236, Rolla, MO 65401.

1982

Don and Sherri (Puckett, '85) Anselm write: "We've recently moved to 1122 Hunter Court, Lake St. Louis, MO 63367, to get Sherri closer to her new job at the Union Electric Callaway Nuclear Power Plant. Old friends please write or call at 314-625-2473 to keep us up on the latest with you."

Dale J. Dietzel has completed the U.S. Air Force military indoctrination for medical service officers at Sheppard Air Force Base, Texas. The course acquaints newly commissioned medical personnel with professional and administrative responsibilities as Air Force officers. Dale is a second lieutenant.

Dennis N. Fellin now lives at 2520 S. May, Oklahoma City, OK 76108.

Michael Oliver Geisel is now engineering and operations administrator for the City of Maryland Heights, Mo. Michael makes his home at 10556 Hobday, St. Ann, MO 63074.

James F. Irwin Jr. writes: "Everything is going well. I am still working with Oklahoma Gas and Electric Co. in Oklahoma City. I plan to marry Bonnie Bruneau on Feb. 22, 1986, in Oklahoma City. We will live at a new home I recently purchased. Our new address will be 15109 Pheasant Run, Choctaw, OK 73020."

James M. Jackson is now a senior mechanical engineer with Northrop Wilcox in Kansas City. He and Carol live at 7932 N.W. Milrey Drive, Kansas City, MO 64152.

Steve Keeling works for Black and Veatch Engineers and Architects. He is currently assigned to Memphis, Tenn. Steve receives mail at P.O. Box 203, Eminence, MO 65466.

Raymond J. Kopsky Jr., '82, '85, writes: "I have accepted the position of hydraulic engineer in the water control management section of the St. Louis District, U.S. Army Corps of Engineers. My address is 7519 Suffolk Ave., St. Louis, MO 63119. As usual, I'm looking forward to St. Pat's."

Gary Wayne McDonald has moved from Maryland Heights, Mo. to 3815 Towers Road, St. Charles, MO 63303.

Sam Otto writes: "I am still working at Bendix in Kansas City currently living with UMR alums Mark Abernathy, '82, and Wayne Schmidt, '83. We all enjoyed the World Series last year and attended the first and last games of the series and saw Royals win." Sam, Mark and Toby live at 601 E. 89th St., Kansas City, MO 64131.

Tom Rosenmayer writes: "Houston has improved notably since Avery ('82) left!" Tom is an engineer with Hughes Tool Co. in Houston. He now lives at 3335 Golden Willow, Kingwood, TX 77339.

Steve Roth is now a tech service representative with United Catalysts. He lives at 625 Huntington Park Drive, Louisville, KY 40213.

Robert and Nancy Stevenson moved from Garland, Texas, to 9409 Grant Drive, Rowlett, TX 75088.



GREGORY T. WEHKING

Gregory T. Wehking has been commissioned a second lieutenant in the U.S. Air Force upon graduation from Officer Training School at Lackland Air Force Base, Texas. Greg will now be assigned to Lowry Air Force Base, CO 80230.

1983

Robert E. Armstrong Jr. moved recently from Houston, Texas, to 2411 Tall Ships Lane, Friendswood, TX 77546. He is with NASA.

Sharon Cassell, '83, '85, writes: "I am working in the engineering and analysis division of the quality assurance office at the Charleston Naval Shipyard. Son, Adam, and I live at 5126 Marseilles Drive, Charleston, SC 29418.

Ron Clendenny writes: "After completing two successful years at Boeing Military Airplane Co., I will be trading nuclear weapons for nuclear power. My family and I will be moving to Fulton, Mo., where I will be working as systems analyst for Union Electric at the Callaway County Nuclear Plant. My wife, Debbie, gave birth to twin sons, Dash and Ty, on Dec. 21, 1985." The Clendenny family resides now at 920 Wood St., Fulton, MO 65251.

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1983 continued

Andy Cox and Trisha Wente Cox, '84, are living at 316 Georgetown Court, Albany, NY 12203. Andy is a design engineer with General Electric and is enrolled in General Electric's Advanced Course in Engineering and will graduate from Rensselaer Polytechnic Institute with an M.S. in May 1987. Trisha is currently working as a programmer/analyst for Logicworld in Schenectady, N.Y.

Dan, '83, and Marie (Meiners, '83) Dennis are currently living at 1103 Ralph Terrace, St. Louis, MO 63117. Marie is with the Missouri Highway Department in Kirkwood.

Christopher L. Henry is receiving mail at P.O. Box 261, Carbondale, PA 18407. He is a construction engineer with HBE Corp. of St. Louis.

Richard W. Gray III has moved from St. Louis to 909 W. 19th, Odessa, TX 79763.

Vicki Hatfield and husband Stan are still residing in Houston, Texas. Vicki has been a geotechnical engineer with Harding Lawson Associates since September 1985. Stan is an exploration geologist with Marathon Oil. Vicki and Stan live at 10901 Village Bend Lane, No. 203, Houston, TX 77072.



1985 Rollamo

Patrick N. Heath now lives at 4002 Alexandria Drive, Austin, TX 78749.

Ken John Kozlowski writes: "Presently I am assistant project engineer/and also safety director for the Ceco Corp. We are building the tallest building in the state of Missouri. The high rise building is a concrete joust and slab construction. The finished product will be 42 stories above ground and 5 levels of parking below ground." Ken resides at 7840 N. Anita, No. 163, Kansas City, MO 64151.

Gregory S. Meitz writes: "Married Deborah (Lauber) Meitz, Class of 1986. I am a process engineer at Ethyl Petroleum Additives Inc. Debbie is a coop student with McDonnell Douglas." Greg and Debbie now live at 4936 Waringford Drive, St. Louis, MO 63128.

Steve Mitchler is now a project engineer with Accurate Construction. He lives at 1220 Admiral Drive, St. Louis, MO 63137.

Michael T. Moylett has recently moved to 3620 Baumann, Midland, TX 79703. Michael is a geologist for Exxon Co. USA, in Andrews, Texas.

Bruce and Barbara Murray moved from Lovington, N.M., to 4008 Eastridge, Snyder, TX 79549, in February.

Gregory Symes, '83, '85, is now an associate engineer for McDonnell Douglas in St. Louis, Mo. Gregory lives at 46 Huck Finn, St. Charles, MO 63303.

Michael Ian Tatkow sends a new address: 1101 White Gate Court, O'Fallon, MO 63366.

Doug Wesselschmidt writes: "I have recently accepted the position of project engineer for the city of Shawnee, Kansas." Doug now lives at 7412 Royalty Way, No. 101, Merriam, KS 66203.

1984

Timothy Adams, a first lieutenant, has been decorated with the Army Commendation Medal at Fort Bragg, N.C. The Army Commendation Medal is awarded to those individuals who demonstrate outstanding achievement or meritorious service in the performance of their duties on behalf of the Army. Timothy is chemical officer with the 508th Infantry.

Sam M. Assil is now receiving mail at P.O. Box 2173, Orangeburg, SC 29116. He is an assistant professor at Claffin College.

Sandra Witcher and Craig Bladow, both '84, were married on Dec. 15, 1984. Craig is with the U.S. Navy and is currently stationed in New York. Craig and Sandra's address is Rock City Road, Route 4, Ballston Spa, NY 12020.

William E. Buscher is now with Lincoln DeVore Testing Lab in Colorado Springs. He lives at 3132 Illinois, Colorado Springs, CO 80907.

David M. Clare now lives at 2641 Louis Ave., St. Louis, MO 63144.

Trisha Wente Cox and Andy Cox, '83, are living at 316 Georgetown Court, Albany, NY 12203. Andy is a design engineer with General Electric and is enrolled in General Electric's Advanced Course in Engineering and will graduate from Rensselaer Polytechnic Institute with an M.S. in May 1987. Trisha is currently working as a programmer/analyst for Logicworld in Schenectady, N.Y.

Jerry Curless is now an associate engineer with Terra Associates Inc. He lives at 56 Cloverdale, St. Charles, MO 63303.

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Holly C. Harber sends a new address: 2225 Weathered Rock Road, No. 9, Jefferson City, MO 65101.

Mark G. Harward now lives at 7502 Fair Oaks, No. 1195, Dallas, TX 75231.

Kathi Hesse is currently a human factors engineer for Commonwealth Edison Co. in Chicago, Ill. Kathi lives at 2441 Spring St., No. 4004, Woodbridge, IL 60517.

Shawn R. Kitchell is now mechanical engineer for the U.S. Coast Guard, 1st District, in Boston, Mass. Shawn and Jamie make their home at 37 Woodcock Ave., Apt. No. 6, Haverhill, MA 01830.

Kent E. Koederitz writes: "Susan and I just left Dallas for a new adventure in Johnson City, Tenn. I was transferred to run the plant maintenance group for Texas Instrument's Industrial System Division." Kent and Susan live at 605 Lamont St., Johnson City, TN 37601.

Ken Laudel now lives at 1415 N. Country Club Road, Bldg. M, Apt. 3086, Mesa, AZ 85201. Ken is with Motorola in Phoenix.

Dennis G. Martin resides at 11400 4th St. North, No. 1314, St. Petersburg, FL 33702. He is with IBM.

Gregory E. Nagawiecki writes: "Married Amy Long, '84, on July 7, 1984. Both working for Harris Corp. in Melbourne, Florida. Amy was promoted to senior engineer in August 1985. Greg is senior engineer." Greg and Amy reside at 930 Miller Lane, Melbourne, FL 32935.

K. Scott and Kathy Ann O'Brian live at 9861 LeCoeur Court, St. Ann, MO 63074. Scott is a design engineer for McDonnell Aircraft in St. Louis.

Terrance E. Pearce is a design engineer with Boeing. Terry lives at 2309 South Belmont, Wichita, KS 67218.

Randall K. Porter writes: "I'm working for the Bureau of Land Management in Wyoming, with work including: sand and gravel sales, estimating hydrocarbon potential in lands scheduled for lease auctions, environmental assessments, mining claims, paleontology, etc." Randall's mailing address is Box 2475, Rock Springs, WY 82901.

Jeffrey W. Reis writes: "I've been working as a quality assurance manager for Procter and Gamble Paper Products Division in Cape Girardeau, Mo., for more than a year now. Working in the Pampers module has come in handy since Mariko and I were blessed with our first born, Justin Jared, on April 20, 1985. If any of the old gang are ever cruising down I-55, be sure to stop by our house at 208 Shawnee, Jackson, MO 63755."

Sandor K. Senik writes: "Changed my duty position and title. I am responsible for operation of the base computer facility, base telecommunications facility, high frequency radio operations and base switchboard. Supervise 55 people and support approximately 2000 users." Sander is base chief of operations for the U.S. Air Force in Pordenone, Italy. His and Anna's mailing address is P.O. Box 1001, APO NY 09293.

Laura C. Stubbs has moved from Playa Del Rey, Calif. to 900 E. Imperial Ave., No. 2, El Segundo, CA 90245.

Randolph L. Wood, Lt. j.g., has been designated a Naval Flight Officer. Randy has completed the advanced jet navigation course at the Naval Air Station, Pensacola, Fla. During his final phase of the NFO training program, he received extensive instruction on both high altitude instrument navigation and low-level, high speed visual navigation. He is a 1983 graduate of the U.S. Naval Academy. He received an M.S. degree from UMR. Randy's mailing address is 4303 Javins Drive, Alexandria, VA 22310.



1985 Rollamo

Douglas L. Victor was commissioned an Army second lieutenant upon graduating from the Officer Candidate School, Fort Benning, Ga. Douglas' mailing address is 711 S. Pershing, Salem, MO 65560.

Katherine A. Zluhan-Smith moved last December to 6922 Stonewood Court, Cincinnati, OH 45241.

1985

Sherri (Puckett) and Don Anselm, '82, write: "We've recently moved to 1122 Hunter Court, Lake St. Louis, MO 63367, to get Sherri closer to her new job at the Union Electric Callaway Nuclear Power Plant. Old friends please write or call at 314-625-2473 to keep us up on the latest with you."

Dave Barton writes: "Started working for EDS — Engineering Systems in July 1985. I am in the knowledge automation group working on artificial intelligence." Dave lives at 45155 Fox Lane West, No. 102, Utica, MI 48057.

1985 continued

Daniel J. Bourquin is an electrical engineer with Ford Motor Co. Daniel and Lisa (Halbrook) and son Jacques live at 7800 Mead, Dearborn, MI 48126.

Steve and Ginny (Fochtmann) Bretske write: "Ginny and Steve were married last July. They currently live at 1510 C Mews Drive, Kansas City, MO 64131. Ginny is a civil engineer at Black and Veatch, and Steve is an electrical engineer at Kansas City Power and Light. Steve also works part-time as an independent distributor for Herbalife International.

Alan C. Brown has graduated from the U.S. Army engineer officer basic course at Fort Belvoir, Va. Alan's mailing address is Route 2, Pomona, MO 65789.

Bret A. Corum is currently an associate engineer for General Dynamics, Fort Worth Division. Bret lives at 8874A Avril Court S., Fort Worth, TX 76116.

Louis A. Dell'Orco III is now a 2nd lieutenant in the U.S. Army at Ft. Belvoir, Va. Louis receives mail at 12543 Shepherd Drive, Florissant, MO 63033.

Lisa Engert writes: "I am a civil engineer in the public works department at the Naval Weapons Station in Charleston, S.C." Lisa lives at 504 Andrea Court, Hanahan, SC 29418.

Mary Gielow writes: "Mike Book ('84) and I are planning to be married July 12, 1986, in St. Louis. We're both working for IBM in Manassas, Va., at their semiconductor manufacturing facility. (Manassas is a suburb of Washington, D.C.)" Mary resides at 8669 Bruton Parish, No. 301, Manassas, VA 22110.

Warren R. Hibbard is now an engineer with AT&T Technologies. Warren and Lisa live at 6210 E. 126th, Apt. 105, Grandview, MO 64030.

John P. Jurgiel has joined the staff of O'Brien and Gere Engineers Inc. in St. Louis, Mo. John's home address is 1424 E. Stony Meadows, Valley Park, MO 63088.

John Gregory Kelly send a new address: 102 Rubin Court, Apt. A1, Cary, NC 27511.

Larry F. Lawson writes: "Responsible for mission system integration on unmanned air vehicles at the Naval Air Test Center, Patuxent River, Maryland." Larry is an electronics engineer with DOD - DON. He and Karen now live at 118 Stoney Brook Road, Lexington Park, MD 20653.

Robert R. Mariette has graduated from the U.S. Army engineer officer basic course as a 2nd lieutenant at Fort Belvoir, Va.

Mark and Cindy Murphy are currently alive and well in Gillette, Wyo. Mark is employed by Welex, a Halliburton Co. Mark and Cindy reside at 1102 Stanley Ave., Apt. 3, Gillette, WY 82716.

Rajesh Kumar Singh's mailing address is c/o Bethlehem Steel Corp., Homer Research Lab, G-233, Bethlehem, PA 18016.

Robert L. Villhard moved from Cocoa Beach, Fla., to 3432 Lariat Lane, Apt. 57, Orlando, FL 32826.

David J. Vitale writes: "I am working in department 251 — flight simulation — at McDonnell Douglas. Projects: F15 MSIP, F15E dual role fighter." David lives at 8500 Kathlyn Drive, Berkeley, MO 63134.

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John F. Voss writes: "I am working for the Procter and Gamble Paper Products Co. in Cape Girardeau, Mo. I am presently in a management training program and hope to be in a project engineering role when I'm through with training. I was married to Janice E. Anderson on Dec. 21, 1985." John and Janice live at 2 N. Fountain, Apt. 5, Cape Girardeau, MO 63701.

Mark J. Warner writes: "Currently attending University of Oklahoma — M.S. in petroleum engineering. Teaching reservoir mechanics lab at the university. Employed by Sohio Petroleum in Frontier/International Division in Houston, Texas, this summer." Mark's mailing address is now P.O. Box 2882, Norman, OK 73069.



1985 Rollamo

Something To Do This Summer.....UMR's Elderhostel!

UMR will offer an Elderhostel this summer to be held July 20-26 on campus. It will be part of the nationwide Elderhostel program.

Elderhostel is a program for persons over the age of 60. Participants take three non-credit courses (with no homework or tests), live in a residence hall and participate in other campus activities for a week.

Courses to be offered at UMR are:

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—"Yesterday, Today and Tomorrow—Geologically Speaking." This course will present an overview of geology with an emphasis on earthquakes and the shaping of the land by wind, water, ice and man. Wealthy Spreng, UMR lecturer in geology and geophysics, will be the instructor.

—Astronomy, Stonehenge and Other Marvels." Astronomy, past and present, will be discussed in this course, and one evening will be devoted to stargazing. The astronomical implications of the ancient English megalith Stonehenge also will be included, along with a tour of UMR's replica of Stonehenge, which was chosen one of the 10 Outstanding Engineering Achievements of 1984 by the National Society of Professional Engineers. Instructor for the course is Dr. Joseph Senne, UMR professor emeritus of civil

engineering. Senne did the astronomical calculations for UMR's version of Stonehenge.

—Ozark Folklore, Music, Art and Literature." This course will feature a discussion of why the Ozarks have produced so many painters, writers, musicians and storytellers and why the region has produced so many different types of artists. Instructor for the course is Dr. Michael Patrick, UMR professor of English.

A fee of \$205 for the residential program includes housing, all meals and the three courses. Persons in the Rolla area who wish to attend the program as commuters and wish to eat all meals with the residential group, will pay a fee of \$165. For those who wish to commute and eat only the noon meal with the rest of the group, the fee is \$135.

A number of on- and off-campus social activities also have been planned for the Elderhostel week.

UMR is one of 850 colleges and universities nationwide that will participate in the Elderhostel program.

For further information on UMR's Elderhostel contact Frank Haston, Director of Educational Programs and Activities, 114A University Center-West, UM-Rolla, Rolla, Mo. 65401, phone: 314-341-4970.

Continuing Education Courses

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, 205B Parker Hall, University of Missouri-Rolla, Rolla, MO 65401.

PROGRAM DATES	LOCATION
School of Mines and Metallurgy	
Hazardous Waste Management	St. Louis
School of Engineering	
Heating, Ventilating & Air Conditioning Systems:	
Sizing & Design . May 5-7	Kansas City
Grounding & Shielding Electronic Instrumentation	St. Louis
Grounding & Shielding Electronic Instrumentation May 12	Wichita, Kans.
12th Annual Short Course on Quality Geotechnical Lab	Rolla
1986 Fundamentals of Engineering. June 9-13	Rolla
Grounding & Shielding Electronic Instrumentation	Japan
1986 Fundamentals of Engineering	Rolla
College of Arts and Sciences	
Physical Testing of Paints & Coatings	Rolla
Basic Microcomputer Programming/Coatings	Rolla

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

MSM-UMR ALUMNI ASSOCIATION

University of Missouri-Rolla Rolla, Missouri 65401-9990

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